LONGHORN ARMY AMMUNITION PLANT KARNACK, TEXAS

ADMINISTRATIVE RECORD

Volume 2

2025

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Longhorn Army Ammunition Plant

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LONGHORN ARMY AMMUNITION PLANT
KARNACK, TEXAS
ADMINISTRATIVE RECORD – CHRONOLOGICAL INDEX

VOLUME 2

2025

A. Title: (Cont'd) Report – Level IV DoD Lab Report to Final Tenth Annual Remedial Action Operation Report, LHAAP-46 (Plant 2 Area), Longhorn Army Ammunition Plant (LHAAP), Karnack, Texas, January 2025
Author(s): Department of the Army
Recipient: Environmental Protection Agency and Texas Commission on Environmental Quality
Date: March 4, 2025
Bate Stamp: 01290044–01290883

B. Title: Report – Quarterly Evaluation Report, 2nd Quarter (April–June) 2024 Groundwater Treatment Plant, Longhorn Army Ammunition Plant, Karnack, Texas
Author(s): PCI-Bhate JV
Recipient: Longhorn Army Ammunition Plant
Date: March 7, 2025
Bate Stamp: 01290884–01291089

C. Title: (Cont'd) Report – Appendix C labs File1 to Draft Quarterly Evaluation Report, 2nd Quarter (April–June) 2024 Groundwater Treatment Plant, Longhorn Army Ammunition Plant, Karnack, Texas
Author(s): PCI-Bhate JV
Recipient: Longhorn Army Ammunition Plant
Date: March 7, 2025
Bate Stamp: 01291090–01291967

Form 1 - Organic Analysis Data Sheet

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	LHAAP / Site 46	**HS24021563**	

Volatiles by EPA Volatiles Organics by Method 8260C

Trip Blank-240226

	Collected	Received	Matrix	Basis
HS24021563-09	02/26/24 00:00	02/27/24 09:10	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	03/01/24 00:31	VOA9_460210	V022908.D
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	03/01/24 00:31	VOA9_460210	V022908.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	03/01/24 00:31	VOA9_460210	V022908.D

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Form 2

System Monitoring Compound Recovery

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24021563

Client

Bhate Environmental Associates, Inc.

Project

LHAAP / Site 46

03/21/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP / Site 46

Workorder HS24021563

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA10-460168

46WW02-240226

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24021563-02	Groundwater	02/29/24 11:46	%REC	1
Instrument ID	VOA10				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	F022907.D	55	50	110		81-118
4-Bromofluorobenzene	F022907.D	51	50	103		85-114
Dibromofluoromethane	F022907.D	55	50	111		80-119
Toluene-d8	F022907.D	57	50	114		89-112

46WW02-240226

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24021563-02MS	Aqueous	02/29/24 12:28	%REC	1
Instrument ID	VOA10				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	F022909.D	59.82	50	120		81-118
4-Bromofluorobenzene	F022909.D	51.67	50	103		85-114
Dibromofluoromethane	F022909.D	60.52	50	121		80-119
Toluene-d8	F022909.D	55.55	50	111		89-112

46WW02-240226

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24021563-02MSD	Aqueous	02/29/24 12:49	%REC	1
Instrument ID	VOA10				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	F022910.D	52.17	50	104		81-118
4-Bromofluorobenzene	F022910.D	51.17	50	102		85-114
Dibromofluoromethane	F022910.D	55.95	50	112		80-119
Toluene-d8	F022910.D	54.06	50	108		89-112

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP / Site 46

Workorder **HS24021563**

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA10-460168

46WW05-240226

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24021563-06	Groundwater	02/29/24 19:28	%REC	1
Instrument ID	VOA10				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	F022929.D	50	50	99.5		81-118
4-Bromofluorobenzene	F022929.D	52	50	103		85-114
Dibromofluoromethane	F022929.D	55	50	110		80-119
Toluene-d8	F022929.D	54	50	108		89-112

VBLKW-240229

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VBLKW-240229	Aqueous	02/29/24 11:18	%REC	1
Instrument ID	VOA10				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	F022906.D	56	50	112		81-118
4-Bromofluorobenzene	F022906.D	52.05	50	104		85-114
Dibromofluoromethane	F022906.D	57.26	50	115		80-119
Toluene-d8	F022906.D	55.83	50	112		89-112

VLCSW-240229

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VLCSW-240229	Aqueous	02/29/24 10:36	%REC	1
Instrument ID	VOA10				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	F022904.D	57.43	50	115		81-118
4-Bromofluorobenzene	F022904.D	53.14	50	106		85-114
Dibromofluoromethane	F022904.D	59.28	50	119		80-119
Toluene-d8	F022904.D	53.61	50	107		89-112

Form 2 - System Monitoring Compound Recovery

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Workorder HS24021563

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA10-460168

VSTD050		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VSTD050	Aqueous	02/29/24 09:54	%REC	1
Instrument ID	VOA10				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	F022902.D	53.4	50	107		80-120
4-Bromofluorobenzene	F022902.D	54.41	50	109		80-120
Dibromofluoromethane	F022902.D	54.54	50	109		80-120
Toluene-d8	F022902.D	54.93	50	110		80-120

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP / Site 46

Workorder **HS24021563**

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA10-460228

LHSMW23R-240226

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24021563-07	Groundwater	02/29/24 22:58	%REC	1
Instrument ID	VOA10				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	G022907.D	50	50	99.2		81-118
4-Bromofluorobenzene	G022907.D	50	50	99.5		85-114
Dibromofluoromethane	G022907.D	56	50	112		80-119
Toluene-d8	G022907.D	54	50	109		89-112

LHSMW23R-24026-FD

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24021563-08	Groundwater	02/29/24 23:19	%REC	1
Instrument ID	VOA10				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	G022908.D	49	50	98.1		81-118
4-Bromofluorobenzene	G022908.D	51	50	101		85-114
Dibromofluoromethane	G022908.D	56	50	111		80-119
Toluene-d8	G022908.D	53	50	106		89-112

BatchQC

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24021593-04MS	Aqueous	03/01/24 00:01	%REC	1
Instrument ID	VOA10				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	G022910.D	47.92	50	95.8		81-118
4-Bromofluorobenzene	G022910.D	50.75	50	102		85-114
Dibromofluoromethane	G022910.D	49.85	50	99.7		80-119
Toluene-d8	G022910.D	54.75	50	110		89-112

Form 2 - System Monitoring Compound Recovery

Client: Bhate Environmental Associates, Inc.
Project: LHAAP / Site 46
Workorder: HS24021563

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID: VOA10-460228

BatchQC

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24021593-04MSD	Aqueous	03/01/24 00:22	%REC	1
Instrument ID	VOA10				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	G022911.D	48.2	50	96.4		81-118
4-Bromofluorobenzene	G022911.D	50.58	50	101		85-114
Dibromofluoromethane	G022911.D	51.16	50	102		80-119
Toluene-d8	G022911.D	54.39	50	109		89-112

VBLKW-240229

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VBLKW-240229	Aqueous	02/29/24 22:37	%REC	1
Instrument ID	VOA10				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	G022906.D	49.35	50	98.7		81-118
4-Bromofluorobenzene	G022906.D	51.36	50	103		85-114
Dibromofluoromethane	G022906.D	53.29	50	107		80-119
Toluene-d8	G022906.D	53.82	50	108		89-112

VLCSW-240229

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VLCSW-240229	Aqueous	02/29/24 21:34	%REC	1
Instrument ID	VOA10				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	G022903.D	48.6	50	97.2		81-118
4-Bromofluorobenzene	G022903.D	51.86	50	104		85-114
Dibromofluoromethane	G022903.D	55.3	50	111		80-119
Toluene-d8	G022903.D	53.01	50	106		89-112

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP / Site 46

Workorder HS24021563

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA10-460228

VSTD050		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VSTD050	Aqueous	02/29/24 20:52	%REC	1
Instrument ID	VOA10				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	G022902.D	44.86	50	89.7		80-120
4-Bromofluorobenzene	G022902.D	51.44	50	103		80-120
Dibromofluoromethane	G022902.D	48.69	50	97.4		80-120
Toluene-d8	G022902.D	53.82	50	108		80-120

Form 2 - System Monitoring Compound Recovery

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Project LHAAP / Site 46

Workorder **HS24021563**

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-460210

CCV

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	CCV V022902.D	Aqueous	02/29/24 22:17	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	V022902.D	50.3	50	101		80-120
4-Bromofluorobenzene	V022902.D	52.48	50	105		80-120
Dibromofluoromethane	V022902.D	51.75	50	103		80-120
Toluene-d8	V022902.D	48.34	50	96.7		80-120

46WW03-240226

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24021563-01	Groundwater	03/01/24 05:43	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	V022922.D	42	50	83.3		81-118
4-Bromofluorobenzene	V022922.D	44	50	88.4		85-114
Dibromofluoromethane	V022922.D	43	50	85.2		80-119
Toluene-d8	V022922.D	45	50	89.2		89-112

46WW06-240226

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24021563-03	Groundwater	03/01/24 06:05	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	V022923.D	41	50	81.8		81-118
4-Bromofluorobenzene	V022923.D	44	50	88.5		85-114
Dibromofluoromethane	V022923.D	41	50	82.8		80-119
Toluene-d8	V022923.D	45	50	89.3		89-112

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP / Site 46

Workorder **HS24021563**

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-460210

46WW08-240226

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24021563-04	Groundwater	03/01/24 06:27	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	V022924.D	41	50	81.1		81-118
4-Bromofluorobenzene	V022924.D	45	50	89.7		85-114
Dibromofluoromethane	V022924.D	41	50	82.7		80-119
Toluene-d8	V022924.D	45	50	89.3		89-112

46WW16-240226

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24021563-05	Groundwater	03/01/24 06:49	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	V022925.D	41	50	82.1		81-118
4-Bromofluorobenzene	V022925.D	46	50	91.1		85-114
Dibromofluoromethane	V022925.D	42	50	83.8		80-119
Toluene-d8	V022925.D	45	50	90.5		89-112

Trip Blank-240226

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24021563-09	Groundwater	03/01/24 00:31	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	V022908.D	41	50	81.6		81-118
4-Bromofluorobenzene	V022908.D	44	50	88.9		85-114
Dibromofluoromethane	V022908.D	42	50	83.4		80-119
Toluene-d8	V022908.D	45	50	89.3		89-112

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP / Site 46

Workorder HS24021563

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-460210

VBLKW-240229

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VBLKW-240229	Aqueous	02/29/24 23:46	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	V022906.D	40.58	50	81.2		81-118
4-Bromofluorobenzene	V022906.D	44.89	50	89.8		85-114
Dibromofluoromethane	V022906.D	42.01	50	84.0		80-119
Toluene-d8	V022906.D	44.72	50	89.4		89-112

VLCSDW-240229

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VLCSDW-240229	Aqueous	02/29/24 23:02	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	V022904.D	49.41	50	98.8		81-118
4-Bromofluorobenzene	V022904.D	50.59	50	101		85-114
Dibromofluoromethane	V022904.D	50.51	50	101		80-119
Toluene-d8	V022904.D	49.74	50	99.5		89-112

VLCSW-240229

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VLCSW-240229	Aqueous	02/29/24 22:40	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	V022903.D	49.09	50	98.2		81-118
4-Bromofluorobenzene	V022903.D	50.74	50	101		85-114
Dibromofluoromethane	V022903.D	51.96	50	104		80-119
Toluene-d8	V022903.D	48.28	50	96.6		89-112

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Form 3A

Matrix Spike/Spike Duplicate Recovery

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24021563

Client

Bhate Environmental Associates, Inc.

Project

LHAAP / Site 46

03/21/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client: Bhate Environmental Associates, Inc.

Project: LHAAP / Site 46

Workorder: HS24021563

Volatiles by EPA Volatiles Organics by Method 8260C

SAMPLENUM: HS24021563-02MS

46WW02-240226 (HS24021563-02)				HS24021563-02MS				HS24021563-02MSD						
Spike Matrix: Aqueous	Result Units: ug/L			Run Date: 02/29/24				Run Date: 02/29/24						
Instrument ID: VOA10				Run Time: 12:28				Run Time: 12:49						
				Data File: F022909.D				Data File: F022910.D						
Analyte	%R Limits	DF	Sample Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
cis-1,2-Dichloroethene	78-123	1	2.665	20.2626	20	88		24.6738	20	110		20	19.6	
Trichloroethene	79-123	1	34.57	52.0783	20	88		55.5871	20	105		20	6.52	
Vinyl chloride	58-137	1	0	18.9149	20	95		23.8463	20	119		20	23.1	

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits OL - Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP / Site 46

Workorder HS24021563

SAMPLENUM HS24021593-04MS

Volatiles by EPA Volatiles Organics by Method 8260C

BatchQC (HS24021593-04)				HS24021593-04MS				HS24021593-04MSD						
Spike Matrix Aqueous	Result Units ug/L			Run Date 03/01/24				Run Date 03/01/24						
Instrument ID VOA10				Run Time 00:01				Run Time 00:22						
				Data File G022910.D				Data File G022911.D						
Analyte	%R Limits	DF	Sample Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
cis-1,2-Dichloroethene	78-123	1	56.28	71.5522	20	76		69.8762	20	68		20	2.37	
Trichloroethene	79-123	1	2.403	25.5650	20	116		23.8791	20	107		20	6.82	
Vinyl chloride	58-137	1	1.85	20.3844	20	93		19.1381	20	86		20	6.31	

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits OL - Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

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Form 3B

Laboratory Control Sample Recovery

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24021563

Client

Bhate Environmental Associates, Inc.

Project

LHAAP / Site 46

03/21/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP / Site 46

Workorder HS24021563

Volatiles by EPA Volatiles Organics by Method 8260C

SAMPLENUM VLCSW-240229

VOA10_460168			VLCSW-240229			VLCSDW-240229					
Spike Matrix Aqueous	Result Units ug/L		Run Date 02/29/24 Run Time 10:36			Run Date 02/29/24 Run Time 23:02					
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q	LCSD Result	%R	Q	RPD Limit	RPD	Q
cis-1,2-Dichloroethene	78-123	20	22.13	111		20.24	101		20	1.37	
Trichloroethene	79-123	20	21.35	107		20.61	103		20	3.91	
Vinyl chloride	58-137	20	21.43	107		20.79	104		20	7.17	

VOA10_460228			VLCSW-240229			VLCSDW-240229					
Spike Matrix Aqueous	Result Units ug/L		Run Date 02/29/24 Run Time 21:34			Run Date 02/29/24 Run Time 23:02					
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q	LCSD Result	%R	Q	RPD Limit	RPD	Q
cis-1,2-Dichloroethene	78-123	20	19.46	97		20.24	101		20	1.37	
Trichloroethene	79-123	20	21.12	106		20.61	103		20	3.91	
Vinyl chloride	58-137	20	17.31	86		20.79	104		20	7.17	

VOA9_460210			VLCSW-240229			VLCSDW-240229					
Spike Matrix Aqueous	Result Units ug/L		Run Date 02/29/24 Run Time 22:40			Run Date 02/29/24 Run Time 23:02					
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q	LCSD Result	%R	Q	RPD Limit	RPD	Q
cis-1,2-Dichloroethene	78-123	20	20.52	103		20.24	101		20	1.37	
Trichloroethene	79-123	20	19.82	99		20.61	103		20	3.91	
Vinyl chloride	58-137	20	22.34	112		20.79	104		20	7.17	

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Form 4

Method Blank Summary

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24021563

Client

Bhate Environmental Associates, Inc.

Project

LHAAP / Site 46

03/21/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 4 - Method Blank Summary

Client Bhate Environmental Associates, Inc.

Project LHAAP / Site 46

Workorder HS24021563

Volatiles by EPA Volatiles Organics by Method 8260C

METHOD BLANK	Matrix	Analysis Date	Analysis Batch	Inst ID
VBLKW-240229	Aqueous	02/29/24 11:18	R460168	VOA10

Client Sample ID	Lab Sample ID	Type	Analysis Date	Analysis Batch	Inst ID	FileID
VLCSW-240229	VLCSW-240229	LCS	02/29/24 10:36	R460168	VOA10	F022904.D
46WW02-240226	HS24021563-02	SAMP	02/29/24 11:46	R460168	VOA10	F022907.D
46WW02-240226	HS24021563-02MS	MS	02/29/24 12:28	R460168	VOA10	F022909.D
46WW02-240226	HS24021563-02MSD	MSD	02/29/24 12:49	R460168	VOA10	F022910.D
46WW05-240226	HS24021563-06	SAMP	02/29/24 19:28	R460168	VOA10	F022929.D

Form 4 - Method Blank Summary

Client: Bhate Environmental Associates, Inc.
Project: LHAAP / Site 46
Workorder: HS24021563

Volatiles by EPA Volatiles Organics by Method 8260C

METHOD BLANK	Matrix	Analysis Date	Analysis Batch	Inst ID
VBLKW-240229	Aqueous	02/29/24 23:46	R460210	VOA9

Client Sample ID	Lab Sample ID	Type	Analysis Date	Analysis Batch	Inst ID	FileID
VLCSW-240229	VLCSW-240229	LCS	02/29/24 22:40	R460210	VOA9	V022903.D
VLCSDW-240229	VLCSDW-240229	LCSD	02/29/24 23:02	R460210	VOA9	V022904.D
Trip Blank-240226	HS24021563-09	SAMP	03/01/24 00:31	R460210	VOA9	V022908.D
46WW03-240226	HS24021563-01	SAMP	03/01/24 05:43	R460210	VOA9	V022922.D
46WW06-240226	HS24021563-03	SAMP	03/01/24 06:05	R460210	VOA9	V022923.D
46WW08-240226	HS24021563-04	SAMP	03/01/24 06:27	R460210	VOA9	V022924.D
46WW16-240226	HS24021563-05	SAMP	03/01/24 06:49	R460210	VOA9	V022925.D

Form 4 - Method Blank Summary

Client: Bhate Environmental Associates, Inc.
Project: LHAAP / Site 46
Workorder: HS24021563

Volatiles by EPA Volatiles Organics by Method 8260C

METHOD BLANK	Matrix	Analysis Date	Analysis Batch	Inst ID
VBLKW-240229	Aqueous	02/29/24 22:37	R460228	VOA10

Client Sample ID	Lab Sample ID	Type	Analysis Date	Analysis Batch	Inst ID	FileID
VLCSW-240229	VLCSW-240229	LCS	02/29/24 21:34	R460228	VOA10	G022903.D
LHSMW23R-240226	HS24021563-07	SAMP	02/29/24 22:58	R460228	VOA10	G022907.D
LHSMW23R-24026-FD	HS24021563-08	SAMP	02/29/24 23:19	R460228	VOA10	G022908.D
BatchQC	HS24021593-04MS	MS	03/01/24 00:01	R460228	VOA10	G022910.D
BatchQC	HS24021593-04MSD	MSD	03/01/24 00:22	R460228	VOA10	G022911.D

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Form 5

Instrument Performance Check

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24021563

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Project

LHAAP / Site 46

03/21/2024

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FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: V10

Lab File ID: F022801 BFB Injection Date: 02/28/24

Instrument ID: VOA10 BFB Injection Time: 1649

GC Column: DB624 ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.3
75	30.0 - 60.0% of mass 95	51.6
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	77.4
175	5.0 - 9.0% of mass 174	6.2 (8.0)1
176	95.0 - 101.0% of mass 174	77.4 (100.0)1
177	5.0 - 9.0% of mass 176	5.3 (6.8)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD00.25	VSTD00.25	F022802	02/28/24	1709
02	VSTD00.5	VSTD00.5	F022803	02/28/24	1730
03	VSTD001	VSTD001	F022804	02/28/24	1751
04	VSTD002	VSTD002	F022805	02/28/24	1812
05	VSTD005	VSTD005	F022806	02/28/24	1833
06	VSTD020	VSTD020	F022807	02/28/24	1854
07	VSTD050	VSTD050	F022808	02/28/24	1915
08	VSTD100	VSTD100	F022809	02/28/24	1936
09	VSTD150	VSTD150	F022810	02/28/24	1957
10	VSTD200	VSTD200	F022811	02/28/24	2018
11	ICV	ICV	F022813	02/28/24	2100
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM V VOA

Form 5 - Instrument Performance Check

Client Bhate Environmental Associates, Inc.

Project LHAAP / Site 46

Workorder **HS24021563**

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA10-460168

Tune File F022901.D 02/29/24 2/29/2024

m / e	Ion Abundance Criterion	%RA
50	15.0 - 40.0% of mass 95	23.2 (23.2)
75	30.0 - 60.0% of mass 95	50.5 (50.5)
95	Base peak, 100% RA	100 (100)
96	5.0 - 9.0% of mass 95	7.3 (7.25)
173	Less than 2.0% of mass 174	1.1 (1.37) 1
174	greater than 50.0% of mass 95	80.3 (80.3) 1
175	5.0 - 9.0% of mass 174	6.3 (7.9) 1
176	> 95% but < 101% of mass 174	78.5 (97.7) 1
177	5.0 - 9.0% of mass 176	4.9 (6.29) 2

%RA - Percent Relative Abundance

This check applies to the following analyses

	Lab Samp ID	Type	Date Analyzed	Lab File ID	Sample ID
1	VSTD050	CCV	2/29/2024	F022902	VSTD050
2	VLCSW-	LCS	2/29/2024	F022904	VLCSW-240229
3	VBLKW-	MBLK	2/29/2024	F022906	VBLKW-240229
4	HS24021563-	SAMP	2/29/2024	F022907	46WW02-240226
5	HS24021563-	MS	2/29/2024	F022909	HS24021563-02MS
6	HS24021563-	MSD	2/29/2024	F022910	HS24021563-02MSD
7	HS24021563-	SAMP	2/29/2024	F022929	46WW05-240226
8	CCV-END	CCV_EN	2/29/2024	F022940	CCV-END

Form 5 - Instrument Performance Check

Client Bhate Environmental Associates, Inc.

Project LHAAP / Site 46

Workorder **HS24021563**

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA10-460228

Tune File G022901.D 02/29/24 2/29/2024

m / e	Ion Abundance Criterion	%RA
50	15.0 - 40.0% of mass 95	21.4 (21.4)
75	30.0 - 60.0% of mass 95	49.8 (49.8)
95	Base peak, 100% RA	100 (100)
96	5.0 - 9.0% of mass 95	6.9 (6.86)
173	Less than 2.0% of mass 174	0 (0) 1
174	greater than 50.0% of mass 95	88.9 (88.9) 1
175	5.0 - 9.0% of mass 174	6.9 (7.72) 1
176	> 95% but < 101% of mass 174	85 (95.7) 1
177	5.0 - 9.0% of mass 176	5.9 (6.93) 2

%RA - Percent Relative Abundance

This check applies to the following analyses

	Lab Samp ID	Type	Date Analyzed	Lab File ID	Sample ID
1	VSTD050	CCV	2/29/2024	G022902	VSTD050
2	VLCSW-	LCS	2/29/2024	G022903	VLCSW-240229
3	VBLKW-	MBLK	2/29/2024	G022906	VBLKW-240229
4	HS24021563-	SAMP	2/29/2024	G022907	LHSMW23R-240226
5	HS24021563-	SAMP	2/29/2024	G022908	LHSMW23R-24026-FD
6	HS24021593-	MS	3/1/2024	G022910	ZZZZZZMS
7	HS24021593-	MSD	3/1/2024	G022911	ZZZZZZMSD
8	VSTD050	CCV_EN	3/1/2024	G022940	VSTD050

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: V9

Lab File ID: U022701 BFB Injection Date: 02/27/24

Instrument ID: VOA9 BFB Injection Time: 0950

GC Column: DB624 ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.2
75	30.0 - 60.0% of mass 95	49.7
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	85.2
175	5.0 - 9.0% of mass 174	7.6 (9.0)1
176	95.0 - 101.0% of mass 174	84.4 (99.1)1
177	5.0 - 9.0% of mass 176	5.9 (6.9)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD00.25	VSTD00.25	U022702	02/27/24	1012
02	VSTD00.5	VSTD00.5	U022703	02/27/24	1034
03	VSTD001	VSTD001	U022704	02/27/24	1057
04	VSTD002	VSTD002	U022705	02/27/24	1119
05	VSTD005	VSTD005	U022706	02/27/24	1141
06	VSTD020	VSTD020	U022707	02/27/24	1203
07	VSTD050	VSTD050	U022708	02/27/24	1225
08	VSTD100	VSTD100	U022709	02/27/24	1247
09	VSTD150	VSTD150	U022710	02/27/24	1310
10	VSTD200	VSTD200	U022711	02/27/24	1332
11	ICV	ICV	U022713	02/27/24	1417
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

Form 5 - Instrument Performance Check

Client Bhate Environmental Associates, Inc.

Project LHAAP / Site 46

Workorder **HS24021563**

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-460210

Tune File V022901.D 02/29/24 2/29/2024

m / e	Ion Abundance Criterion	%RA
50	15.0 - 40.0% of mass 95	19.9 (19.9)
75	30.0 - 60.0% of mass 95	48.5 (48.5)
95	Base peak, 100% RA	100 (100)
96	5.0 - 9.0% of mass 95	6.8 (6.82)
173	Less than 2.0% of mass 174	0 (0) 1
174	greater than 50.0% of mass 95	98.1 (98.1) 1
175	5.0 - 9.0% of mass 174	8.5 (8.65) 1
176	> 95% but < 101% of mass 174	93.5 (95.4) 1
177	5.0 - 9.0% of mass 176	6.1 (6.5) 2

%RA - Percent Relative Abundance

This check applies to the following analyses

	Lab Samp ID	Type	Date Analyzed	Lab File ID	Sample ID
1	CCV	CCV	2/29/2024	V022902	CCV
2	VLCSW-	LCS	2/29/2024	V022903	VLCSW-240229
3	VLCSDW-	LCSD	2/29/2024	V022904	VLCSDW-240229
4	VBLKW-	MBLK	2/29/2024	V022906	VBLKW-240229
5	HS24021563-	SAMP	3/1/2024	V022908	Trip Blank-240226
6	HS24021563-	SAMP	3/1/2024	V022922	46WW03-240226
7	HS24021563-	SAMP	3/1/2024	V022923	46WW06-240226
8	HS24021563-	SAMP	3/1/2024	V022924	46WW08-240226
9	HS24021563-	SAMP	3/1/2024	V022925	46WW16-240226
10	CCV-END	CCV_EN	3/1/2024	V022927	CCV-END

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Form 6

Initial Calibration Data

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24021563

Client

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Project

LHAAP / Site 46

03/21/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Report Date : 11-Mar-2024 18:32 Page 1

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 28-FEB-2024 17:09
End Cal Date : 28-FEB-2024 20:18
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa10.i\G240228.b\8260W.m
Last Edit : 11-Mar-2024 14:00 Linh.Pham

Calibration File Names:
Level 1: \\NAHSTWS005\Target\chem\voa10.i\G240228.b\F022802.D
Level 2: \\NAHSTWS005\Target\chem\voa10.i\G240228.b\F022803.D
Level 3: \\NAHSTWS005\Target\chem\voa10.i\G240228.b\F022804.D
Level 4: \\NAHSTWS005\Target\chem\voa10.i\G240228.b\F022805.D
Level 5: \\NAHSTWS005\Target\chem\voa10.i\G240228.b\F022806.D
Level 6: \\NAHSTWS005\Target\chem\voa10.i\G240228.b\F022807.D
Level 7: \\NAHSTWS005\Target\chem\voa10.i\G240228.b\F022808.D
Level 8: \\NAHSTWS005\Target\chem\voa10.i\G240228.b\F022809.D
Level 9: \\NAHSTWS005\Target\chem\voa10.i\G240228.b\F022810.D
Level 10: \\NAHSTWS005\Target\chem\voa10.i\G240228.b\F022811.D

Compound	0.2500000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.0000 Level 4	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	50.0000 Level 7	100.0000 Level 8	150.0000 Level 9	200.0000 Level 10							
2 Dichlorodifluoromethane	+++++	0.50752	0.48985	0.41458	0.42035	0.36643					
	0.41730	0.40787	0.44107	0.41821			AVRG		0.43146		9.98829
3 Chloromethane	+++++	1.14955	1.08803	0.89838	0.90271	0.80264					
	0.85792	0.84004	0.83138	0.81074			AVRG		0.90904		13.71919
4 Propionitrile	+++++	0.06953	0.07218	0.05613	0.06275	0.05105					
	0.05618	0.05588	0.04971	0.04779			AVRG		0.05791		14.82063

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 28-FEB-2024 17:09
End Cal Date : 28-FEB-2024 20:18
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa10.i\G240228.b\8260W.m
Last Edit : 11-Mar-2024 14:00 Linh.Pham

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
5 Vinyl Chloride	+++++	0.65879	0.70759	0.59599	0.57716	0.50807					
	0.57596	0.55426	0.59214	0.56939			AVRG		0.59326		9.84342
6 Bromomethane	+++++	688	1254	1979	5161	17708					
	46974	87863	141601	178413			LINR	-0.02168	0.19494		0.99765
7 Chloroethane	+++++	0.40095	0.40543	0.32550	0.35351	0.29790					
	0.34716	0.33219	0.35681	0.34647			AVRG		0.35177		9.71937
8 Trichlorofluoromethane	+++++	0.60808	0.62186	0.61161	0.59793	0.50075					
	0.59180	0.55545	0.61235	0.58014			AVRG		0.58666		6.47142
9 Acrolein	+++++	0.14052	0.14702	0.14349	0.14995	0.13686					
	0.16621	0.15354	0.16373	+++++			AVRG		0.15017		7.01794
10 Acetone	+++++	1738	2956	3599	10222	30825					
	83226	173736	221349	315869			QUAD	0.00320	5.01638	0.75510	0.99309
11 1,1-Dichloroethene	+++++	0.40353	0.40017	0.31595	0.36761	0.31145					
	0.36334	0.34826	0.36292	0.34365			AVRG		0.35743		8.97287

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 28-FEB-2024 17:09
End Cal Date : 28-FEB-2024 20:18
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa10.i\G240228.b\8260W.m
Last Edit : 11-Mar-2024 14:00 Linh.Pham

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
12 Isobutyl Alcohol	+++++	0.07364	0.07101	0.05315	0.05844	0.06444					
	0.07665	0.07825	0.07308	0.07159			AVRG		0.06892		12.31475
13 Acetonitrile	+++++	1868	4595	6616	14688	45664					
	127537	253830	396686	474035			QUAD	0.28493	14.07079	2.49937	0.99613
14 Allyl Chloride	+++++	4004	5795	11174	31572	77202					
	196918	388545	673899	+++++			QUAD	-0.02639	1.26079	-0.07599	0.99948
15 Iodomethane	+++++	1117	1906	3481	9170	36602					
	110325	237368	439938	618028			QUAD	0.06855	3.89565	-0.34722	0.99842
16 Acrylonitrile	+++++	528	1829	2642	7193	26262					
	68671	137020	193414	255955			LINR	-0.06688	0.13911		0.99573
17 Methylene Chloride	+++++	1944	3050	4821	11028	36305					
	94675	184709	292267	391234			LINR	-0.00834	0.41731		0.99980
18 Methyl tert-butyl ether	+++++	1.19081	1.59170	1.03010	1.17944	1.07246					
	1.26304	1.24931	1.12965	1.08278			AVRG		1.19881		13.96283

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 28-FEB-2024 17:09
End Cal Date : 28-FEB-2024 20:18
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa10.i\G240228.b\8260W.m
Last Edit : 11-Mar-2024 14:00 Linh.Pham

Compound	0.2500000 Level 1 50.0000 Level 7	0.5000000 Level 2 100.0000 Level 8	1.0000 Level 3 150.0000 Level 9	2.0000 Level 4 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
19 Carbon Disulfide	+++++	7717	13737	23204	55139	186946						
	527419	1002424	1684323	2244068			LINR	0.02982	1.19815		0.99927	
20 trans-1,2-Dichloroethene	+++++	0.45252	0.50630	0.43747	0.42692	0.37222						
	0.41850	0.39534	0.40711	0.38953			AVRG		0.42288		9.44842	
21 Vinyl Acetate	+++++	1.07306	1.21784	0.89301	0.97774	0.89908						
	1.06194	1.02562	1.04654	0.95336			AVRG		1.01647		9.91844	
22 1,1-Dichloroethane	+++++	1.03653	0.99835	0.89491	0.89339	0.72261						
	0.83970	0.80283	0.81353	0.77548			AVRG		0.86415		11.88201	
23 Chloroprene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
24 2-Butanone	+++++	1084	2068	2705	8785	29929						
	86388	171023	238262	321662			QUAD	0.03888	4.65573	0.88594	0.99820	
25 Methacrylonitrile	+++++	1403	2602	4533	11958	36376						
	107167	185908	308891	379078			LINR	-0.02743	0.41815		0.99538	

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 28-FEB-2024 17:09
End Cal Date : 28-FEB-2024 20:18
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa10.i\G240228.b\8260W.m
Last Edit : 11-Mar-2024 14:00 Linh.Pham

Compound	0.2500000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.0000 Level 4	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	50.0000 Level 7	100.0000 Level 8	150.0000 Level 9	200.0000 Level 10							
26 2,2-Dichloropropane	+++++	0.63473	0.64093	0.54868	0.58852	0.52320					
	0.62352	0.58267	0.60067	0.55692			AVRG		0.58887		6.88232
27 cis-1,2-Dichloroethene	+++++	0.53159	0.55366	0.48206	0.46642	0.40851					
	0.45426	0.43524	0.43785	0.42487			AVRG		0.46605		10.48906
28 Chloroform	+++++	2581	4368	7786	19287	64614					
	171133	324594	512434	669038			LINR	-0.01745	0.72121		0.99910
29 Bromochloromethane	+++++	0.20670	0.20173	0.17512	0.21168	0.18562					
	0.19590	0.18452	0.17612	0.16639			AVRG		0.18931		8.22208
31 1,1,1-Trichloroethane	+++++	0.62441	0.72623	0.61964	0.66029	0.56996					
	0.66210	0.62347	0.63987	0.60341			AVRG		0.63660		6.89346
32 1,1-Dichloropropene	+++++	0.49232	0.54298	0.43898	0.44232	0.37896					
	0.42456	0.40113	0.41914	0.40833			AVRG		0.43875		11.46648
33 1,2-Dichloroethane	+++++	0.49601	0.46931	0.42249	0.44998	0.42774					
	0.42937	0.40831	0.38651	0.38664			AVRG		0.43071		8.45169

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Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa10.i\G240228.b\8260W.m
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Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
34 Carbon Tetrachloride	+++++	1660	3039	4642	12372	43933						
	118916	216813	362985	447986			LINR	-0.01212	0.32546		0.99845	
37 Benzene	+++++	1.67870	1.53514	1.29712	1.28752	1.24110						
	1.27043	1.22046	1.22812	1.23031			AVRG		1.33210		12.17103	
38 Trichloroethene	+++++	0.35583	0.32590	0.28703	0.29660	0.28316						
	0.29298	0.27983	0.28317	0.28159			AVRG		0.29846		8.63060	
39 Bromodichloromethane	+++++	0.45997	0.41052	0.34709	0.39544	0.38161						
	0.39887	0.38938	0.37903	0.37830			AVRG		0.39336		7.78024	
40 Methyl Methacrylate	+++++	0.63086	0.53349	0.41338	0.48937	0.45703						
	0.50861	0.52779	0.48944	0.46745			AVRG		0.50194		12.13696	
41 2-Chloroethylvinyl ether	+++++	+++++	+++++	+++++	+++++	0.00133						
	0.00055	0.00076	0.00071	0.00090			AVRG		0.00085		35.00739	<-
42 1,2-Dichloropropane	+++++	0.41060	0.40687	0.34176	0.36576	0.34370						
	0.35213	0.34509	0.33512	0.33248			AVRG		0.35928		8.25923	

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43 2-Nitropropane	+++++	146	486	729	2307	7399					
	18388	37064	63226	78471			QUAD	0.01593	11.08433	1.69521	0.99710
44 Dibromomethane	+++++	0.15408	0.17331	0.13783	0.16555	0.16591					
	0.16641	0.16068	0.15294	0.15385			AVRG		0.15895		6.63130
45 4-Methyl-2-Pentanone	+++++	2461	4319	6632	21438	89773					
	239766	498688	708560	969433			QUAD	0.03456	2.15753	0.08918	0.99761
46 cis-1,3-Dichloropropene	+++++	0.48153	0.44086	0.38979	0.41700	0.42979					
	0.47589	0.47304	0.46348	0.46820			AVRG		0.44884		7.00211
49 Ethyl Methacrylate	+++++	1743	1934	2256	9066	29535					
	69665	149336	219011	328902			QUAD	-0.02417	5.30203	-1.03208	0.99759
50 Toluene	+++++	1.80087	1.80658	1.44113	1.46061	1.45963					
	1.50672	1.46441	1.44269	1.45272			AVRG		1.53726		9.90559
51 trans-1,3-Dichloropropene	+++++	0.31610	0.33145	0.27861	0.30811	0.35146					
	0.37825	0.38568	0.37483	0.38011			AVRG		0.34496		11.09213

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52 2-Hexanone	+++++	0.33060	0.28997	0.22417	0.24581	0.25832					
	0.26479	0.28773	0.25315	0.26440			AVRG		0.26877		11.41997
53 1,1,2-Trichloroethane	+++++	0.29702	0.28196	0.22379	0.26006	0.26403					
	0.27296	0.27205	0.24710	0.24638			AVRG		0.26282		8.26351
54 1,3-Dichloropropane	+++++	0.66154	0.64687	0.50037	0.56834	0.58169					
	0.58152	0.58483	0.53158	0.53443			AVRG		0.57680		9.08204
55 Dibromochloromethane	+++++	0.26409	0.32493	0.26091	0.30481	0.31964					
	0.33520	0.34137	0.31745	0.32014			AVRG		0.30984		9.29669
56 Tetrachloroethene	+++++	0.27924	0.30485	0.25245	0.25353	0.25043					
	0.27243	0.26457	0.27166	0.27183			AVRG		0.26900		6.29648
57 1,2-Dibromoethane	+++++	0.31315	0.30961	0.25245	0.29066	0.28826					
	0.29776	0.30169	0.27331	0.27359			AVRG		0.28894		6.77847
58 1-Chlorohexane	+++++	4786	5612	7235	13157	40062					
	104453	186080	317836	417233			LINR	-0.01597	0.29333		0.99877

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59 Chlorobenzene	+++++	1.03791	1.07747	0.86518	0.85513	0.85270					
	0.88838	0.87782	0.85901	0.86690			AVRG		0.90894		9.42101
60 1,1,1,2-Tetrachloroethane	+++++	0.33126	0.35910	0.25421	0.30407	0.30570					
	0.32285	0.32618	0.31381	0.31271			AVRG		0.31443		8.92554
61 Ethylbenzene	+++++	0.45508	0.49840	0.45085	0.43141	0.43632					
	0.47470	0.45834	0.46418	0.46354			AVRG		0.45920		4.35834
62 m,p-Xylenes	+++++	0.64903	0.68183	0.52802	0.55541	0.54656					
	0.58934	0.58185	0.58658	0.58608			AVRG		0.58941		8.25350
63 o-Xylene	+++++	0.62598	0.63789	0.49585	0.53684	0.53577					
	0.57462	0.57034	0.56979	0.57098			AVRG		0.56867		7.74488
64 Styrene	+++++	0.78733	0.86913	0.74176	0.83420	0.93921					
	1.00259	1.02779	1.02331	1.03716			AVRG		0.91805		12.32934
65 cis-1,4-Dichloro-2-butene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000

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	50.0000 Level 7	100.0000 Level 8	150.0000 Level 9	200.0000 Level 10							
66 Bromoform	+++++	0.18671	0.21838	0.17838	0.20484	0.21287					
	0.22518	0.23110	0.21366	0.21762			AVRG		0.20986		8.24342
67 Isopropylbenzene	+++++	1.54107	1.59894	1.25328	1.34075	1.32470					
	1.46502	1.42597	1.46611	1.46732			AVRG		1.43146		7.61601
68 1,1,2,2-Tetrachloroethane	+++++	0.91973	0.88419	0.66546	0.78885	0.76175					
	0.77314	0.71800	0.64378	0.66463			AVRG		0.75772		12.79587
71 1,2,3-Trichloropropane	+++++	1210	2529	4292	12510	49713					
	125666	254878	363407	+++++			QUAD	0.02050	0.97172	0.19450	0.99855
72 trans-1,4-Dichloro-2-butene	+++++	+++++	0.11465	0.06971	0.09853	0.10157					
	0.10702	0.11423	0.09621	0.10625			AVRG		0.10102		14.16579
73 n-Propylbenzene	+++++	3.40221	3.76122	2.82074	2.98879	2.88641					
	3.21198	3.00623	2.96520	3.06125			AVRG		3.12267		9.47885
74 Bromobenzene	+++++	0.85488	0.93090	0.66498	0.71788	0.68196					
	0.70218	0.67842	0.66717	0.65962			AVRG		0.72866		13.28401

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75 1,3,5-Trimethylbenzene	+++++	2.22984	2.53130	1.89341	2.06118	2.02844					
	2.22915	2.15110	2.15747	2.19348			AVRG		2.16393		8.11573
76 2-Chlorotoluene	+++++	2.27493	2.38806	1.81881	1.97781	1.85035					
	1.95047	1.83543	1.80105	1.83295			AVRG		1.96998		10.92863
77 4-Chlorotoluene	+++++	2.44912	2.73135	2.05758	2.25747	2.14073					
	2.26931	2.17432	2.10053	2.19557			AVRG		2.26400		9.23885
78 tert-Butylbenzene	+++++	2.02353	2.12423	1.71568	1.74886	1.60556					
	1.78046	1.70632	1.76886	1.76008			AVRG		1.80373		9.07219
79 1,2,4-Trimethylbenzene	+++++	2.21749	2.53966	1.92098	2.10377	2.10178					
	2.28730	2.19965	2.18583	2.21586			AVRG		2.19692		7.55559
80 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
81 sec-Butylbenzene	+++++	2.68569	2.88121	2.13648	2.35532	2.20042					
	2.50340	2.42965	2.54520	2.48757			AVRG		2.46944		9.29384

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82 p-Isopropyltoluene	+++++	2.09519	2.34519	1.82598	1.91917	1.92096					
	2.23922	2.20937	2.22093	2.19850			AVRG		2.10828		8.46887
83 1,3-Dichlorobenzene	+++++	1.38917	1.69973	1.22396	1.30350	1.22306					
	1.30017	1.25421	1.26193	1.25530			AVRG		1.32345		11.33543
84 1,4-Dichlorobenzene	+++++	1.68072	1.76142	1.31227	1.35823	1.29944					
	1.35713	1.32350	1.31074	1.29925			AVRG		1.41141		12.61509
85 bis(2-Chloro-isopropyl)ether	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
86 Benzyl Chloride	+++++	1.04615	1.13770	0.90799	0.97205	0.99271					
	1.16836	1.25654	1.20573	1.22491			AVRG		1.10135		11.35042
87 n-Butylbenzene	+++++	3178	6460	10837	28848	113402					
	325704	684822	1068354	1449231			LINR	0.00032	2.08337		0.99945
88 1,2-Dichlorobenzene	+++++	1.48368	1.59169	1.21854	1.26947	1.22226					
	1.29573	1.25871	1.22944	1.23174			AVRG		1.31125		10.18373

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89 1,2-Dibromo-3-Chloropropane	+++++	70.00000	222	401	1394	6396						
	16747	+++++	+++++	+++++			LINR	0.01397	0.11143		0.99953	<-
90 1,2,4-Trichlorobenzene	+++++	1330	2156	3874	11255	46255						
	127166	270841	427837	576940			LINR	0.00359	0.83052		0.99962	
91 Hexachlorobutadiene	+++++	710	1199	2057	5174	20042						
	54941	128811	202429	272019			LINR	0.01722	0.39321		0.99909	
92 Naphthalene	+++++	2665	4459	7297	25914	117308						
	313821	655212	953675	1289921			QUAD	0.01887	0.44160	0.01409	0.99910	
93 1,2,3-Trichlorobenzene	+++++	1193	2157	3263	10447	40633						
	110919	238266	+++++	+++++			LINR	0.01433	0.75156		0.99943	
130 Ethyl Acetate	+++++	0.62355	0.56265	0.40438	0.58351	0.42122						
	0.52315	0.56099	0.50706	0.48560			AVRG		0.51913		14.07912	
131 Methyl Acrylate	+++++	0.38247	0.42868	0.37487	0.43999	0.36864						
	0.45549	0.45385	0.41058	0.38225			AVRG		0.41076		8.48115	

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132 n-Butanol	+++++	0.00991	0.01374	0.01371	0.01034	0.01152					
	0.01169	0.01169	0.01198	0.01073			AVRG		0.01170		11.42390
133 Ethyl Acrylate	+++++	0.55179	0.53897	0.38300	0.46868	0.51981					
	0.59206	0.61929	0.58520	0.55737			AVRG		0.53513		13.44462
134 Cyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
135 1,4-Dioxane	132	164	188	517	1487	5652					
	13938	27373	39025	54882			LINR	-0.33561	0.00291		0.99810
136 n-Hexane	+++++	0.46799	0.49249	0.44637	0.48632	0.48992					
	0.58644	0.55714	0.60221	0.56415			AVRG		0.52145		10.80727
137 n-Pentane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
138 Freon TF	+++++	0.38891	0.40193	0.33375	0.38804	0.33652					
	0.38435	0.33855	0.36488	0.34161			AVRG		0.36428		7.43625

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146 Methyl Acetate	+++++	0.74732	0.67865	0.55216	0.61225	0.54016						
	0.62713	0.62399	0.55851	0.53444			AVRG		0.60829		11.71428	
147 Methylcyclohexane	+++++	0.46025	0.53262	0.50991	0.45899	0.51294						
	0.46973	0.47298	0.50059	0.46820			AVRG		0.48736		5.53019	
149 Isopropyl alcohol	+++++	1570	2190	2536	9905	32466						
	86589	171621	242622	336239			QUAD	0.09104	49.77872	4.67457	0.99833	
152 Amyl alcohol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
150 Allyl alcohol	+++++	83.00000	236	477	1711	7790						
	23177	44384	67542	97855			LINR	0.55723	0.00513		0.99854	<-
151 4-Methyl-2-pentanol	+++++	9137	13443	18402	57926	217756						
	487036	1059963	1585264	2316308			LINR	0.54640	0.08006		0.99604	
148 Tert-butyl alcohol	+++++	2397	2985	3835	13103	45305						
	132233	270851	375294	500600			QUAD	0.54457	28.87241	4.05951	0.99794	

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139 Diethyl ether	+++++	2549	3227	3835	15390	53415					
	123733	250938	352139	531696			LINR	-0.00275	0.54954		0.99600
140 1,3-Butadiene	+++++	0.18866	0.18265	0.15331	0.18781	0.17388					
	0.19529	0.18642	0.20008	0.19403			AVRG		0.18468		7.58674
141 Cyclohexane	+++++	6876	8797	11456	22252	66247					
	179183	313372	539489	673588			LINR	-0.03183	0.73057		0.99698
142 Tetrahydrofuran	+++++	0.06661	0.07916	0.06288	0.07246	0.06699					
	0.07434	0.07185	0.06387	0.06163			AVRG		0.06886		8.58527
143 1-Chlorobutane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
144 Nitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
145 alpha-Methylstyrene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000

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INITIAL CALIBRATION DATA

Start Cal Date : 28-FEB-2024 17:09
End Cal Date : 28-FEB-2024 20:18
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa10.i\G240228.b\8260W.m
Last Edit : 11-Mar-2024 14:00 Linh.Pham

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
153 Tetraethyl lead	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
154 2,3-Dichlorobutane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
155 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
156 Diisopropyl ether	+++++	2.00345	2.56921	1.79958	1.93614	1.70662						
	1.94403	1.95211	1.84503	1.76708			AVRG		1.94703		13.00306	
157 n-Heptane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
158 Dichlorofluoromethane	+++++	0.71852	0.87994	0.72174	0.66373	0.60654						
	0.67345	0.66292	0.71940	0.66837			AVRG		0.70162		10.88687	
159 Propylene oxide	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-

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INITIAL CALIBRATION DATA

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Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa10.i\G240228.b\8260W.m
Last Edit : 11-Mar-2024 14:00 Linh.Pham

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
160 2-Methylnaphthalene	+++++	546	787	1416	7147	36202					
	118035	287160	445591	635062			QUAD	0.04482	1.17267	-0.02155	0.99866
161 3-Methyl-1-butanol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
162 Butyl acrylate	+++++	2719	4240	6583	19782	78111					
	210286	480072	757554	1051848			LINR	0.04333	0.88637		0.99853
163 Butyl methacrylate	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
164 Dicyclopentadiene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
165 4-Vinyl-1-cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
166 1,2,3-Trimethylbenzene	+++++	4498	8238	13210	31997	120526					
	313530	665859	1020898	1365353			LINR	-0.01945	1.96956		0.99890

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INITIAL CALIBRATION DATA

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Method file : \\NAHSTWS005\Target\chem\voa10.i\G240228.b\8260W.m
Last Edit : 11-Mar-2024 14:00 Linh.Pham

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
167 Ethanol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
168 1-Propanol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
170 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
172 tert-Butyl formate	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
173 3,3-Dimethyl-1-butanol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
174 tert-Amyl methyl ether	+++++	1.27461	1.46627	1.03455	1.16938	1.14099						
	1.36597	1.35346	1.28888	1.25041			AVRG		1.26050		10.37625	
175 tert-Butyl ethyl ether	+++++	1.41298	1.86294	1.19773	1.41637	1.27889						
	1.49007	1.49727	1.42462	1.37036			AVRG		1.43903		12.89996	

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INITIAL CALIBRATION DATA

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Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa10.i\G240228.b\8260W.m
Last Edit : 11-Mar-2024 14:00 Linh.Pham

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
176 tert-Amyl alcohol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
177 Dimethyl ether	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
178 Ethylene oxide	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
179 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
180 1-Methylnaphthalene	+++++	766	903	1632	6901	35257						
	108361	247283	366648	521842			QUAD	0.03213	1.32676	0.00542	0.99837	
181 2-Furfural	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
182 Epichlorohydrin	+++++	71.00000	291	538	1452	4443						
	12252	27560	43870	51372			QUAD	0.15923	87.26115	120	0.99556	

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Last Edit : 11-Mar-2024 14:00 Linh.Pham

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
183 2-Methylpropane(1)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
(2)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
184 Cyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
185 Isoprene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
186 Isopentane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
187 n-Amyl acetate	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
188 Isopropyl acetate	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	

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Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
189 n-Butyl acetate	+++++	1627	2886	5066	15302	64886					
	174027	390493	578779	788852			LINR	0.01851	0.67239		0.99818
190 Propanal	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
191 n-Buteraldehyde	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
192 Isobuteraldehyde	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
193 2-Ethyl-1-hexanol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
194 Acetaldehyde	+++++	3565	5299	8359	21593	72455					
	195561	316078	467050	646462			QUAD	-0.08209	5.05794	0.32445	0.99741
195 Methyl Amyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000

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Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
196 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
197 3-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
198 Methylcyclopentane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
199 1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
200 Dimethyl Disulfide	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
201 1-Butene(1)	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
(2)	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-

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INITIAL CALIBRATION DATA

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Last Edit : 11-Mar-2024 14:00 Linh.Pham

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
202 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
203 2-Ethylhexyl Acrylate	+++++	0.09945	0.08818	0.05021	0.20025	0.24890						
	0.41725	+++++	+++++	+++++			AVRG		0.18404		74.15004	<-
M 94 1,2-Dichloroethylene (total)	+++++	0.49205	0.52998	0.45977	0.44667	0.39037						
	0.43638	0.41529	0.42248	0.40720			AVRG		0.44447		9.91353	
M 95 Xylenes (total)	+++++	0.55266	0.55266	0.44459	0.46426	0.44509						
	0.47715	0.46782	0.48161	0.48966			AVRG		0.48617		8.35171	
$ 30 Dibromofluoromethane	+++++	1910	2668	4488	9956	33571						
	82509	155869	247383	313517			QUAD	0.00071	2.51880	0.33837	0.99927	
$ 35 1,2-Dichloroethane-d4	+++++	2576	3782	6010	14501	49531						
	116575	217052	329635	426698			QUAD	-0.00536	1.78921	0.22968	0.99994	
$ 48 Toluene-d8	+++++	16264	17255	23447	47105	151451						
	356043	688756	1066566	1399211			QUAD	-0.02238	0.76676	0.01786	0.99990	

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Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
$ 69 4-Bromofluorobenzene	+++++	+++++	9262	11729	20408	55593					
	130190	253800	384798	525614			QUAD	-0.05223	2.24872	0.02562	0.99931

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Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

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INITIAL CALIBRATION DATA

Start Cal Date : 27-FEB-2024 10:12
End Cal Date : 27-FEB-2024 13:32
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240227.b\8260C.m
Last Edit : 28-Feb-2024 15:34 firat.tastan

Calibration File Names:
Level 1: \\NAHSTWS005\Target\chem\voa9.i\U240227.b\U022702.D
Level 2: \\NAHSTWS005\Target\chem\voa9.i\U240227.b\U022703.D
Level 3: \\NAHSTWS005\Target\chem\voa9.i\U240227.b\U022704.D
Level 4: \\NAHSTWS005\Target\chem\voa9.i\U240227.b\U022705.D
Level 5: \\NAHSTWS005\Target\chem\voa9.i\U240227.b\U022706.D
Level 6: \\NAHSTWS005\Target\chem\voa9.i\U240227.b\U022707.D
Level 7: \\NAHSTWS005\Target\chem\voa9.i\U240227.b\U022708.D
Level 8: \\NAHSTWS005\Target\chem\voa9.i\U240227.b\U022709.D
Level 9: \\NAHSTWS005\Target\chem\voa9.i\U240227.b\U022710.D
Level 10: \\NAHSTWS005\Target\chem\voa9.i\U240227.b\U022711.D

Compound	0.2500000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.0000 Level 4	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	50.0000 Level 7	100.0000 Level 8	150.0000 Level 9	200.0000 Level 10							
2 Dichlorodifluoromethane	+++++	0.46251	0.46032	0.44286	0.42531	0.48092					
	0.46794	0.47259	0.53695	0.53705			AVRG		0.47627		8.00816
3 Chloromethane	+++++	0.73043	0.68039	0.58472	0.54132	0.55731					
	0.52274	0.52712	0.57420	0.60295			AVRG		0.59124		11.99548
4 Propionitrile	+++++	0.07628	0.07106	0.07446	0.07498	0.06915					
	0.07108	0.06961	0.07541	0.07601			AVRG		0.07312		3.90675

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INITIAL CALIBRATION DATA

Start Cal Date : 27-FEB-2024 10:12
End Cal Date : 27-FEB-2024 13:32
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Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240227.b\8260C.m
Last Edit : 28-Feb-2024 15:34 firat.tastan

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
5 Vinyl Chloride	+++++	0.55339	0.53758	0.58105	0.50068	0.56946						
	0.53411	0.54889	0.61814	0.61520			AVRG		0.56206		6.82720	
6 Bromomethane	+++++	2539	4055	6925	15545	54578						
	128069	271766	480807	+++++			QUAD	-0.03078	4.41736	-1.33657	0.99950	
7 Chloroethane	+++++	0.39982	0.33621	0.48915	0.36260	0.38766						
	0.35822	0.35572	0.40154	0.39866			AVRG		0.38773		11.50608	
8 Trichlorofluoromethane	+++++	0.63304	0.66642	0.64326	0.64020	0.75399						
	0.69266	0.69957	0.79666	0.78529			AVRG		0.70123		9.01647	
9 Acrolein	+++++	+++++	1759	2848	3340	9452						
	18785	44838	70728	94534			LINR	0.00907	0.02358		0.99607	<-
10 Acetone	+++++	0.33328	0.39123	0.30351	0.32545	0.26646						
	0.27235	0.26086	0.29086	0.28821			AVRG		0.30358		13.59081	
11 1,1-Dichloroethene	+++++	0.55320	0.34851	0.41065	0.38443	0.42891						
	0.39423	0.39659	0.45014	0.44484			AVRG		0.42350		13.69516	

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Last Edit : 28-Feb-2024 15:34 firat.tastan

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
12 Isobutyl Alcohol	+++++	0.07677	0.07382	0.07612	0.07465	0.07129					
	0.07001	0.07101	0.07846	0.07735			AVRG		0.07438		4.10554
13 Acetonitrile	+++++	0.08787	0.08524	0.08685	0.07641	0.06183					
	0.06558	0.06263	0.06826	0.06707			AVRG		0.07353		14.55995
14 Allyl Chloride	+++++	10431	20037	31161	80031	269930					
	688026	1347553	2150116	2856460			LINR	0.01203	1.43615		0.99879
15 Iodomethane	+++++	1234	3502	8203	28238	178317					
	456574	981471	1626162	2141382			LINR	0.11930	0.54499		0.99739
16 Acrylonitrile	+++++	2881	4872	11050	24097	75172					
	182685	361571	570105	771402			LINR	0.01572	0.19235		0.99876
17 Methylene Chloride	+++++	5670	6845	11230	27897	106090					
	223553	457326	755831	1003587			LINR	0.01791	0.50309		0.99726
18 Methyl tert-butyl ether	+++++	1.39975	1.65232	1.54028	1.44926	1.31057					
	1.31890	1.27724	1.38745	1.37638			AVRG		1.41246		8.47852

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Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240227.b\8260C.m
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Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
19 Carbon Disulfide	+++++	0.84508	0.84545	0.88794	0.78750	0.88122					
	0.82151	0.82594	0.93254	0.92058			AVRG		0.86086		5.58441
20 trans-1,2-Dichloroethene	+++++	0.66281	0.53739	0.45008	0.42829	0.46820					
	0.44670	0.44095	0.49395	0.49496			AVRG		0.49148		14.79301
21 Vinyl Acetate	+++++	1.37402	1.15135	1.30689	1.22769	1.12287					
	1.09358	1.06300	1.20462	1.15466			AVRG		1.18874		8.50752
22 1,1-Dichloroethane	+++++	0.72353	0.76760	0.72752	0.72783	0.81860					
	0.76695	0.76214	0.85497	0.84822			AVRG		0.77748		6.59222
23 Chloroprene	+++++	0.13938	0.15246	0.13861	0.12722	0.15948					
	0.14768	0.14923	0.16835	0.16617			AVRG		0.14984		9.01822
24 2-Butanone	+++++	0.16501	0.19168	0.23635	0.23675	0.19886					
	0.18094	0.19059	0.20803	0.20723			AVRG		0.20172		11.76928
25 Methacrylonitrile	+++++	1189	5124	8423	20686	87705					
	184008	377043	634053	+++++			QUAD	-0.02703	2.99697	-0.49230	0.99854

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Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240227.b\8260C.m
Last Edit : 28-Feb-2024 15:34 firat.tastan

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
26 2,2-Dichloropropane	+++++	0.60209	0.79594	0.68285	0.67230	0.74082					
	0.70368	0.69759	0.77940	0.76351			AVRG		0.71535		8.52529
27 cis-1,2-Dichloroethene	+++++	0.50667	0.50284	0.46480	0.45517	0.51620					
	0.48424	0.48430	0.55272	0.54277			AVRG		0.50108		6.56522
28 Chloroform	+++++	0.84478	0.79220	0.86775	0.78525	0.85266					
	0.79529	0.79049	0.88803	0.88427			AVRG		0.83341		5.11920
29 Bromochloromethane	+++++	0.21095	0.23198	0.27372	0.24711	0.26974					
	0.25709	0.25147	0.27481	0.27191			AVRG		0.25431		8.55975
31 1,1,1-Trichloroethane	+++++	0.67484	0.75096	0.71678	0.72061	0.76307					
	0.71573	0.72172	0.80892	0.79933			AVRG		0.74133		5.83923
32 1,1-Dichloropropene	+++++	0.42968	0.33664	0.47133	0.39470	0.43259					
	0.40958	0.41225	0.46119	0.44913			AVRG		0.42190		9.61256
33 1,2-Dichloroethane	+++++	0.53631	0.48240	0.45593	0.44808	0.48433					
	0.45688	0.45028	0.50126	0.48499			AVRG		0.47783		6.03183

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Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
34 Carbon Tetrachloride	+++++	5399	7400	12406	30070	129437						
	305223	634323	1054596	1417440			LINR	0.03556	0.48397		0.99742	
37 Benzene	+++++	1.20281	1.22107	1.19268	1.17073	1.28573						
	1.20351	1.21157	1.34692	1.31263			AVRG		1.23863		4.91924	
38 Trichloroethene	+++++	0.34565	0.34919	0.38506	0.33642	0.37754						
	0.34111	0.34861	0.39095	0.38532			AVRG		0.36221		6.06187	
39 Bromodichloromethane	+++++	0.56056	0.46364	0.42884	0.41393	0.47705						
	0.44176	0.44480	0.49999	0.48461			AVRG		0.46835		9.44346	
40 Methyl Methacrylate	+++++	0.49050	0.38710	0.38939	0.35263	0.30443						
	0.33261	0.32471	0.36530	0.36662			AVRG		0.36814		14.64112	
41 2-Chloroethylvinyl ether	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
42 1,2-Dichloropropane	+++++	0.36976	0.33609	0.32266	0.28303	0.33513						
	0.31538	0.31859	0.35265	0.34453			AVRG		0.33087		7.52967	

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43 2-Nitropropane	+++++	0.90215	0.96710	1.07789	1.15288	1.02227					
	0.95346	0.95953	1.07127	1.08209			AVRG		1.02096		7.91648
44 Dibromomethane	+++++	0.14245	0.18653	0.20786	0.20600	0.21443					
	0.20930	0.20569	0.23319	0.22674			AVRG		0.20357		13.01929
45 4-Methyl-2-Pentanone	+++++	0.33948	0.38198	0.41491	0.43343	0.38675					
	0.35473	0.35414	0.39771	0.39007			AVRG		0.38369		7.90823
46 cis-1,3-Dichloropropene	+++++	0.42459	0.50027	0.46581	0.47302	0.54940					
	0.52136	0.53107	0.59671	0.58170			AVRG		0.51599		10.87087
49 Ethyl Methacrylate	+++++	0.59817	0.50178	0.56348	0.50541	0.42544					
	0.40537	0.42073	0.47803	0.49071			AVRG		0.48768		13.30869
50 Toluene	+++++	1.74285	1.55466	1.57474	1.41015	1.56277					
	1.46190	1.42752	1.60376	1.53193			AVRG		1.54114		6.60192
51 trans-1,3-Dichloropropene	+++++	0.37334	0.37003	0.37251	0.37037	0.47327					
	0.45484	0.46733	0.51985	0.51082			AVRG		0.43471		14.53964

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52 2-Hexanone	+++++	0.22918	0.28351	0.26948	0.29679	0.31303					
	0.30607	0.31372	0.35463	0.34687			AVRG		0.30148		12.73157
53 1,1,2-Trichloroethane	+++++	0.27127	0.32934	0.28816	0.27310	0.28158					
	0.26877	0.26250	0.30008	0.28568			AVRG		0.28450		7.15298
54 1,3-Dichloropropane	+++++	0.73456	0.63645	0.56834	0.55113	0.61283					
	0.57434	0.56957	0.63841	0.61633			AVRG		0.61133		9.17369
55 Dibromochloromethane	+++++	0.42611	0.35469	0.40253	0.39364	0.42699					
	0.40544	0.40426	0.46308	0.44721			AVRG		0.41377		7.67053
56 Tetrachloroethene	+++++	0.30537	0.37941	0.32783	0.29860	0.33503					
	0.30980	0.30914	0.35031	0.33641			AVRG		0.32799		7.86536
57 1,2-Dibromoethane	+++++	0.35161	0.31061	0.33932	0.33935	0.35290					
	0.33356	0.33527	0.37473	0.36900			AVRG		0.34515		5.64644
58 1-Chlorohexane	+++++	9426	10528	14124	26917	93375					
	192488	412827	674955	913124			LINR	0.00874	0.30868		0.99722

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59 Chlorobenzene	+++++	1.07833	1.03056	0.98785	0.95691	1.03835						
	0.96537	0.95923	1.09457	1.06057			AVRG		1.01908		5.23195	
60 1,1,1,2-Tetrachloroethane	+++++	0.29662	0.37918	0.38109	0.34299	0.39116						
	0.37075	0.37177	0.42031	0.40844			AVRG		0.37359		9.77376	
61 Ethylbenzene	+++++	0.50461	0.51851	0.49280	0.47570	0.53635						
	0.50207	0.49820	0.56832	0.55278			AVRG		0.51659		5.85168	
62 m,p-Xylenes	+++++	0.64815	0.64936	0.64730	0.60956	0.67736						
	0.63915	0.62910	0.71019	0.68863			AVRG		0.65542		4.76411	
63 o-Xylene	+++++	0.59186	0.57977	0.68243	0.59435	0.66812						
	0.62515	0.62667	0.70647	0.68112			AVRG		0.63955		7.23455	
64 Styrene	+++++	1.14039	1.13498	1.07049	1.01835	1.17799						
	1.10723	1.09885	1.25130	1.21071			AVRG		1.13448		6.30879	
65 cis-1,4-Dichloro-2-butene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-

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Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
66 Bromoform	+++++	0.33948	0.31815	0.30570	0.29916	0.32162					
	0.31724	0.31662	0.36698	0.35459			AVRG		0.32662		6.89110
67 Isopropylbenzene	+++++	1.70383	1.63902	1.60820	1.49620	1.68432					
	1.59720	1.57466	1.77658	1.72043			AVRG		1.64449		5.21210
68 1,1,2,2-Tetrachloroethane	+++++	0.89142	0.89231	0.99098	0.95616	0.92455					
	0.83897	0.84992	0.95417	0.93709			AVRG		0.91506		5.55455
71 1,2,3-Trichloropropane	+++++	0.90806	0.89857	0.98640	0.96187	0.96660					
	0.90397	0.94091	1.06605	1.06200			AVRG		0.96605		6.55093
72 trans-1,4-Dichloro-2-butene	+++++	+++++	0.11833	0.12767	0.09943	0.09915					
	0.10221	0.11647	0.14179	+++++			AVRG		0.11501		13.97081
73 n-Propylbenzene	+++++	3.53777	3.39875	3.41808	3.22842	3.38657					
	3.10730	3.12090	3.50881	3.41195			AVRG		3.34650		4.70971
74 Bromobenzene	+++++	0.84329	0.91437	0.90871	0.78773	0.89562					
	0.81829	0.82666	0.92460	0.89742			AVRG		0.86852		5.73833

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75 1,3,5-Trimethylbenzene	+++++	2.94497	2.83269	2.70546	2.46330	2.64571					
	2.42715	2.42836	2.72242	2.63768			AVRG		2.64530		6.84530
76 2-Chlorotoluene	+++++	2.42973	2.31194	2.17959	2.07742	2.15277					
	2.00368	1.97487	2.19281	2.13382			AVRG		2.16185		6.61353
77 4-Chlorotoluene	+++++	2.82582	2.50540	2.71711	2.21503	2.49654					
	2.31264	2.32296	2.58021	2.51051			AVRG		2.49847		7.84713
78 tert-Butylbenzene	+++++	2.25025	2.32386	2.14968	2.02450	2.19596					
	2.03804	2.05613	2.28550	2.22607			AVRG		2.17222		5.12607
79 1,2,4-Trimethylbenzene	+++++	2.82849	2.74207	2.61418	2.42241	2.59969					
	2.40960	2.41140	2.67558	2.61629			AVRG		2.59108		5.80859
80 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
81 sec-Butylbenzene	+++++	2.94854	2.85415	2.90698	2.70989	2.91812					
	2.70885	2.74358	3.08066	2.98715			AVRG		2.87310		4.53316

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82 p-Isopropyltoluene	+++++	2.72122	2.61315	2.65698	2.44605	2.69181						
	2.50596	2.54959	2.83958	2.76532			AVRG		2.64330		4.81309	
83 1,3-Dichlorobenzene	+++++	1.45035	1.42916	1.48383	1.36651	1.56099						
	1.45385	1.48023	1.65582	1.60366			AVRG		1.49827		6.09909	
84 1,4-Dichlorobenzene	+++++	1.44678	1.44794	1.59911	1.49987	1.58078						
	1.49331	1.52251	1.68681	1.66473			AVRG		1.54909		5.71879	
85 bis(2-Chloro-isopropyl)ether	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
86 Benzyl Chloride	+++++	4486	8807	14268	39777	169373						
	441843	1038323	1805884	2490518			QUAD	0.02960	1.37821	-0.08361	0.99733	
87 n-Butylbenzene	+++++	1.91329	2.38959	2.05716	2.00944	2.28180						
	2.11267	2.16540	2.45101	2.37622			AVRG		2.19518		8.58649	
88 1,2-Dichlorobenzene	+++++	1.42301	1.50711	1.62623	1.43557	1.55318						
	1.42757	1.45168	1.60489	1.58562			AVRG		1.51276		5.39767	

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Compound	0.2500000 Level 1 50.0000 Level 7	0.5000000 Level 2 100.0000 Level 8	1.0000 Level 3 150.0000 Level 9	2.0000 Level 4 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
89 1,2-Dibromo-3-Chloropropane	+++++	0.18987	0.18049	0.16975	0.15295	0.16295					
	0.15790	0.16499	0.18584	0.18452			AVRG		0.17214		7.78719
90 1,2,4-Trichlorobenzene	+++++	0.86825	0.85341	0.91935	0.95049	1.07507					
	1.01861	1.05809	1.20669	1.17311			AVRG		1.01367		12.48632
91 Hexachlorobutadiene	+++++	0.53634	0.46471	0.45657	0.41879	0.44658					
	0.41807	0.42750	0.48766	0.47704			AVRG		0.45925		8.29316
92 Naphthalene	+++++	2.08445	2.10745	2.24742	2.49182	2.62769					
	2.49858	2.56541	2.90342	2.84622			AVRG		2.48583		11.83176
93 1,2,3-Trichlorobenzene	+++++	0.69977	0.94984	0.89845	0.93495	1.03211					
	0.96408	0.99194	1.12747	1.10861			AVRG		0.96747		13.07974
130 Ethyl Acetate	+++++	0.65295	0.55993	0.64001	0.62297	0.56796					
	0.51292	0.49762	0.54743	0.54803			AVRG		0.57220		9.60024
131 Methyl Acrylate	+++++	1024	6552	12962	29080	111778					
	282247	572211	915566	1226392			LINR	0.02737	0.61658		0.99858

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Compound	0.2500000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.0000 Level 4	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	50.0000 Level 7	100.0000 Level 8	150.0000 Level 9	200.0000 Level 10							
132 n-Butanol	+++++	0.02176	0.02354	0.02063	0.02091	0.01774					
	0.01779	0.01760	0.01988	0.02017			AVRG		0.02000		10.10023
133 Ethyl Acrylate	+++++	1.47762	1.74149	1.29443	1.31412	1.21423					
	1.25986	1.23742	1.36657	1.36935			AVRG		1.36390		11.93751
134 Cyclohexanone	+++++	5632	10692	15571	37647	135329					
	332169	723360	1130098	1518015			LINR	0.24927	0.05017		0.99912
135 1,4-Dioxane	96.00000	1064	1614	3784	7940	27036					
	70221	141754	237241	323654			QUAD	-0.07589	148	-40.46942	0.99905
136 n-Hexane	+++++	5360	6763	10191	24278	103045					
	229993	457253	788155	1050355			LINR	0.03643	0.52658		0.99552
137 n-Pentane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
138 Freon TF	+++++	0.32175	0.37814	0.33006	0.34719	0.40710					
	0.38272	0.37893	0.43866	0.43347			AVRG		0.37978		11.01871

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Method file : \\NAHSTWS005\Target\chem\voa9.i\U240227.b\8260C.m
Last Edit : 28-Feb-2024 15:34 firat.tastan

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
146 Methyl Acetate	+++++	0.71072	0.73394	0.68065	0.69489	0.55489					
	0.52615	0.51323	0.56328	0.56037			AVRG		0.61535		14.25136
147 Methylcyclohexane	+++++	10171	17916	24719	65745	244449					
	616750	1248319	2017777	2717539			LINR	0.02315	0.92702		0.99854
149 Isopropyl alcohol	+++++	0.04107	0.04226	0.04385	0.04177	0.03760					
	0.03820	0.03696	0.04031	0.04090			AVRG		0.04032		5.70730
152 Amyl alcohol	+++++	0.01511	0.02014	0.01528	0.01872	0.01475					
	0.01563	0.01562	0.01803	0.01812			AVRG		0.01682		11.56022
150 Allyl alcohol	+++++	5360	15064	11019	24278	103045					
	229993	457253	788155	1050355			LINR	0.60577	0.02628		0.99531
151 4-Methyl-2-pentanol	+++++	0.14560	0.16312	0.15105	0.15342	0.12727					
	0.11847	0.12024	0.13304	0.13349			AVRG		0.13841		11.28601
148 Tert-butyl alcohol	+++++	0.06997	0.07369	0.07919	0.07424	0.06306					
	0.06347	0.06189	0.06802	0.06856			AVRG		0.06912		8.43011

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 27-FEB-2024 10:12
End Cal Date : 27-FEB-2024 13:32
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240227.b\8260C.m
Last Edit : 28-Feb-2024 15:34 firat.tastan

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
139 Diethyl ether	+++++	1241	4392	8088	19617	67519					
	170056	342830	540031	720328			LINR	0.01595	0.36231		0.99906
140 1,3-Butadiene	+++++	1979	2962	3599	8553	41675					
	94115	185031	305702	413285			LINR	0.02743	0.20637		0.99723
141 Cyclohexane	+++++	11783	13347	19250	40025	142541					
	315151	644919	1084663	1433544			LINR	0.02017	0.71893		0.99650
142 Tetrahydrofuran	+++++	2046	3350	5731	12531	37707					
	97763	187032	301729	407615			LINR	0.02163	0.10159		0.99807
143 1-Chlorobutane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
144 Nitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
145 alpha-Methylstyrene	+++++	1.07892	1.22334	1.05880	1.03860	1.10659					
	1.02035	1.04155	1.16452	1.13632			AVRG		1.09655		6.14314

ALS Laboratory Group

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Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240227.b\8260C.m
Last Edit : 28-Feb-2024 15:34 firat.tastan

Compound	0.2500000 Level 1 50.0000 Level 7	0.5000000 Level 2 100.0000 Level 8	1.0000 Level 3 150.0000 Level 9	2.0000 Level 4 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
153 Tetraethyl lead	+++++ +++++	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
154 2,3-Dichlorobutane	+++++ +++++	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
155 2-Pentanone	+++++ +++++	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
156 Diisopropyl ether	+++++ 1.50303	1.42479 1.44380	1.72131 1.58114	1.71749 1.58474	1.51836	1.45741	AVRG		1.55023		7.15094	
157 n-Heptane	+++++ +++++	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
158 Dichlorofluoromethane	+++++ 0.77049	1.01334 0.74517	0.91395 0.82031	0.92970 0.81180	0.88393	0.76214	AVRG		0.85009		10.65582	
159 Propylene oxide	+++++ 44227	+++++ 88209	2073 174913	2774 +++++	7746	18889	QUAD	-0.16232	28.41310	-30.97256	0.99795	<-

ALS Laboratory Group

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Method file : \\NAHSTWS005\Target\chem\voa9.i\U240227.b\8260C.m
Last Edit : 28-Feb-2024 15:34 firat.tastan

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
160 2-Methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
161 3-Methyl-1-butanol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
162 Butyl acrylate	+++++ 0.81153	0.99969 0.84088	0.84101 0.95900	0.85030 0.94702	0.71199	0.74154	AVRG		0.85588		11.37610	
163 Butyl methacrylate	+++++ 409243	3207 837751	12601 1225752	16492 1649902	38909	150308	LINR	-0.00942	1.09483		0.99966	
164 Dicyclopentadiene	+++++ 1117411	17950 2229000	34395 3604581	54590 4878407	130605	449858	LINR	0.00757	3.20059		0.99873	
165 4-Vinyl-1-cyclohexene	+++++ +++++	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
166 1,2,3-Trimethylbenzene	+++++ 2.30891	2.67665 2.23126	3.14628 2.43625	2.83963 2.37816	2.55774	2.29879	AVRG		2.54152		11.80539	

ALS Laboratory Group

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Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
167 Ethanol	+++++	+++++	0.00612	0.00666	0.00715	0.00646					
	0.00670	0.00674	0.00749	0.00766			AVRG		0.00687		7.57238
168 1-Propanol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
170 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
172 tert-Butyl formate	+++++	0.60396	0.63094	0.63410	0.63419	0.57412					
	0.57909	0.56919	+++++	+++++			AVRG		0.60366		4.90841
173 3,3-Dimethyl-1-butanol	+++++	8258	22505	40059	92211	295821					
	674696	1392286	2310336	3184535			LINR	0.51043	0.05740		0.99665
174 tert-Amyl methyl ether	+++++	1.51804	1.69730	1.60925	1.50477	1.39181					
	1.46044	1.39532	1.58628	1.54133			AVRG		1.52273		6.56471
175 tert-Butyl ethyl ether	+++++	1.35835	1.51827	1.58527	1.50455	1.40026					
	1.45670	1.42133	1.56448	1.54455			AVRG		1.48375		5.29969

ALS Laboratory Group

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Method file : \\NAHSTWS005\Target\chem\voa9.i\U240227.b\8260C.m
Last Edit : 28-Feb-2024 15:34 firat.tastan

Compound	0.2500000 Level 1 50.0000 Level 7	0.5000000 Level 2 100.0000 Level 8	1.0000 Level 3 150.0000 Level 9	2.0000 Level 4 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
176 tert-Amyl alcohol	+++++ 0.05164	0.06025 0.05692	0.06456 0.05748	0.06341 0.06461	0.06342	0.05741	AVRG		0.05997		7.40595	
177 Dimethyl ether	+++++ +++++	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
178 Ethylene oxide	+++++ +++++	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
179 Hexachloroethane	+++++ +++++	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
180 1-Methylnaphthalene	+++++ +++++	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
181 2-Furfural	+++++ +++++	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
182 Epichlorohydrin	+++++ 77245	+++++ 165313	1659 263446	3435 356358	12098	27237	LINR	0.15347	0.03049		0.99812	<-

ALS Laboratory Group

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Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
183 2-Methylpropane(1)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
(2)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
184 Cyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
185 Isoprene	+++++	0.11297	0.15590	0.11657	0.11495	0.14061						
	0.13738	0.11253	0.12635	0.12405			AVRG		0.12681		11.81973	
186 Isopentane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
187 n-Amyl acetate	+++++	0.53625	0.61546	0.58257	0.70049	0.72564						
	0.66316	0.70539	0.81135	0.80809			AVRG		0.68316		13.82129	
188 Isopropyl acetate	+++++	1.12070	0.96528	0.93674	0.98449	0.98846						
	0.95921	0.97450	1.08030	1.04573			AVRG		1.00616		6.15300	

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Compound	0.2500000 Level 1 50.0000 Level 7	0.5000000 Level 2 100.0000 Level 8	1.0000 Level 3 150.0000 Level 9	2.0000 Level 4 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
189 n-Butyl acetate	+++++ 399877	2451 848282	4600 1408538	11726 1909634	37318	159490	LINR	0.04818	0.69797		0.99711	
190 Propanal	+++++ +++++	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
191 n-Buteraldehyde	+++++ +++++	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
192 Isobuteraldehyde	+++++ +++++	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
193 2-Ethyl-1-hexanol	+++++ +++++	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
194 Acetaldehyde	+++++ 0.09968	0.11075 0.09545	0.09941 0.10505	0.13222 0.10700	0.11604	0.10337	AVRG		0.10766		10.33077	
195 Methyl Amyl Ketone	+++++ 0.80995	+++++ 0.87110	0.75035 0.97094	0.90714 0.95977	0.80150	0.79487	AVRG		0.85820		9.52493	<-

ALS Laboratory Group

INITIAL CALIBRATION DATA

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Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
196 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
197 3-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
198 Methylcyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
199 1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
200 Dimethyl Disulfide	+++++ 0.68788	0.67265 0.66198	0.74258 0.74083	0.69674 0.71700	0.67529	0.64638	AVRG		0.69348		4.89627	
201 1-Butene(1)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
(2)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-

ALS Laboratory Group

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Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
202 Isobutylene	+++++	2658	3415	5695	15219	57394					
	135082	271730	442026	584055			LINR	0.01918	0.29414		0.99820
203 2-Ethylhexyl Acrylate	+++++	1.19510	1.23437	1.04023	0.92916	1.01230					
	1.08412	1.07471	1.19730	1.18284			AVRG		1.10557		9.29550
M 94 1,2-Dichloroethylene (total)	+++++	5932	10569	17471	44199	198180					
	455733	933393	1545451	2059414			LINR	0.06987	0.51794		0.99738
M 95 Xylenes (total)	+++++	12292	24161	49041	120662	538210					
	1252287	2575976	4229407	5665983			LINR	0.08994	0.64587		0.99804
$ 30 Dibromofluoromethane	+++++	4195	5897	12052	23664	95758					
	236176	477322	730081	980208			LINR	0.00728	0.49222		0.99962
$ 35 1,2-Dichloroethane-d4	+++++	5358	6743	13181	25324	116920					
	285747	576605	880843	1184651			LINR	0.00946	0.59501		0.99964
$ 48 Toluene-d8	+++++	+++++	1.78573	1.66790	1.23903	1.36912					
	1.35036	1.32408	1.38220	1.33698			AVRG		1.43193		13.24488

ALS Laboratory Group

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Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
$ 69 4-Bromofluorobenzene	+++++ / 339061	+++++ / 684309	9050 / 1054081	16702 / 1409817	31746	137928	LINR	0.00028	0.51637		0.99930

ALS Laboratory Group

INITIAL CALIBRATION DATA

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Last Edit : 28-Feb-2024 15:34 firat.tastan

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

right solutions.
right partner.

Form 6I

Initial Calibration Verification (ICV)

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24021563

Client

Bhate Environmental Associates, Inc.

Project

LHAAP / Site 46

03/21/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP / Site 46

Workorder HS24021563

RunID F022813.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix LIQUID
Lab Smp Id ICV
Data Type MS DATA
File ID F022813.D
Fraction VOA
Client Smp ID ICV
SampleType METHSPIKE
Inj Date 28-FEB-2024 2100

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
1,1,1,2-Tetrachloroethane	50.0	55.2	110	80-120	
1,1,1-Trichloroethane	50.0	53.2	107	80-120	
1,1,2,2-Tetrachloroethane	50.0	57.3	115	80-120	
Freon TF	50.0	52.2	104	80-120	
Methyl Acetate	50.0	56.7	113	80-120	
Cyclohexane	50.0	54.0	108	80-120	
Methylcyclohexane	50.0	50.5	101	80-120	
Carbon Disulfide	100	106	106	80-120	
2-Hexanone	100	118	118	80-120	
1,1,2-Trichloroethane	50.0	56.3	113	80-120	
1,1-Dichloroethane	50.0	49.2	98.4	80-120	
1,1-Dichloroethene	50.0	51.6	103	80-120	
1,1-Dichloropropene	50.0	51.2	102	80-120	
1,2,3-Trichlorobenzene	50.0	59.0	118	80-120	
1,2,3-Trichloropropane	50.0	55.0	110	80-120	
1,2,4-Trichlorobenzene	50.0	59.6	119	80-120	
1,2,4-Trimethylbenzene	50.0	57.0	114	80-120	
1,2-Dibromo-3-Chloropropane	50.0	59.4	119	80-120	
1,2-Dibromoethane	50.0	55.9	112	80-120	
Acrolein	100	117	117	80-120	
Acrylonitrile	100	118	118	80-120	
1,2-Dichlorobenzene	50.0	54.2	108	80-120	
1,2-Dichloroethane	50.0	51.4	103	80-120	
1,2-Dichloropropane	50.0	51.2	102	80-120	
1,3,5-Trimethylbenzene	50.0	57.2	114	80-120	
1,3-Dichlorobenzene	50.0	54.2	108	80-120	
1,3-Dichloropropane	50.0	54.6	109	80-120	
1,4-Dichlorobenzene	50.0	52.7	105	80-120	
1-Chlorohexane	50.0	54.6	109	80-120	
2,2-Dichloropropane	50.0	52.8	106	80-120	
2-Butanone	100	112	112	80-120	
2-Chloroethylvinyl ether	100	0.000		80-120	*
2-Chlorotoluene	50.0	54.4	109	80-120	
4-Chlorotoluene	50.0	55.3	111	80-120	

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP / Site 46

Workorder HS24021563

RunID F022813.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix LIQUID
Lab Smp Id ICV
Data Type MS DATA
File ID F022813.D

Fraction VOA
Client Smp ID ICV
SampleType METHSPIKE
Inj Date 28-FEB-2024 2100

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
p-Isopropyltoluene	50.0	59.7	119	80-120	
4-Methyl-2-Pentanone	100	112	112	80-120	
Acetone	100	110	110	80-120	
Acetonitrile	500	479	95.7	80-120	
Allyl Chloride	50.0	52.9	106	80-120	
Benzene	50.0	49.9	99.8	80-120	
Bromobenzene	50.0	52.5	105	80-120	
Bromochloromethane	50.0	50.1	100	80-120	
Bromodichloromethane	50.0	52.3	105	80-120	
Bromoform	50.0	58.2	116	80-120	
Bromomethane	50.0	49.9	99.7	80-120	
Carbon Tetrachloride	50.0	54.9	110	80-120	
Chlorobenzene	50.0	52.1	104	80-120	
Chloroethane	50.0	51.6	103	80-120	
Chloroform	50.0	53.2	106	80-120	
Chloromethane	50.0	48.6	97.3	80-120	
Chloroprene	50.0	0.000		80-120	*
cis-1,2-Dichloroethene	50.0	50.0	100	80-120	
cis-1,3-Dichloropropene	50.0	54.0	108	80-120	
Dibromochloromethane	50.0	58.5	117	80-120	
Dibromomethane	50.0	54.7	109	80-120	
Dichlorodifluoromethane	50.0	50.7	101	80-120	
Ethylbenzene	50.0	55.9	112	80-120	
Ethyl Methacrylate	50.0	56.8	114	80-120	
Iodomethane	100	117	117	80-120	
Isobutyl Alcohol	1000	1198	120	70-130	
Propionitrile	500	522	104	70-130	
Hexachlorobutadiene	50.0	59.7	119	80-120	
Isopropylbenzene	50.0	55.2	110	80-120	
m,p-Xylenes	100	107	107	80-120	
Methyl tert-butyl ether	50.0	56.4	113	80-120	
Methylene Chloride	50.0	53.4	107	80-120	
Methacrylonitrile	50.0	55.6	111	80-120	
Methyl Methacrylate	50.0	56.5	113	80-120	

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP / Site 46

Workorder HS24021563

RunID F022813.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix LIQUID
Lab Smp Id ICV
Data Type MS DATA
File ID F022813.D
Fraction VOA
Client Smp ID ICV
SampleType METHSPIKE
Inj Date 28-FEB-2024 2100

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
n-Butylbenzene	50.0	58.2	116	80-120	
n-Propylbenzene	50.0	56.7	113	80-120	
Naphthalene	50.0	59.5	119	80-120	
o-Xylene	50.0	54.5	109	80-120	
sec-Butylbenzene	50.0	57.0	114	80-120	
Styrene	50.0	59.3	119	80-120	
tert-Butylbenzene	50.0	55.2	111	80-120	
Tetrachloroethene	50.0	54.9	110	80-120	
Toluene	50.0	52.4	105	80-120	
trans-1,2-Dichloroethene	50.0	50.0	100	80-120	
trans-1,3-Dichloropropene	50.0	58.2	116	80-120	
trans-1,4-Dichloro-2-butene	50.0	59.5	119	80-120	
Trichloroethene	50.0	51.1	102	80-120	
Trichlorofluoromethane	50.0	50.2	100	80-120	
Vinyl Acetate	100	112	112	80-120	
Vinyl Chloride	50.0	50.1	100	80-120	
1,2-Dichloroethylene (total)	100	100	100	80-120	
Xylenes (total)	150	162	108	80-120	
1,4-Dioxane	1000	1136	114	80-120	
Dibromofluoromethane	50.0	50.6	101	70-130	
1,2-Dichloroethane-d4	50.0	50.8	102	70-130	
Toluene-d8	50.0	53.2	106	70-130	
4-Bromofluorobenzene	50.0	53.6	107	70-130	

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP / Site 46

Workorder HS24021563

RunID U022713.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix LIQUID
Lab Smp Id ICV
Data Type MS DATA
File ID U022713.D

Fraction VOA
Client Smp ID ICV
SampleType METHSPIKE
Inj Date 27-FEB-2024 1417

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
1,1,1,2-Tetrachloroethane	50.0	48.4	96.9	80-120	
1,1,1-Trichloroethane	50.0	49.0	98.0	80-120	
1,1,2,2-Tetrachloroethane	50.0	47.7	95.4	80-120	
Freon TF	50.0	50.2	100	80-120	
Methyl Acetate	50.0	45.3	90.6	80-120	
Cyclohexane	50.0	46.5	93.0	80-120	
Methylcyclohexane	50.0	48.5	97.0	80-120	
Carbon Disulfide	100	97.5	97.5	80-120	
2-Hexanone	100	103	103	80-120	
1,1,2-Trichloroethane	50.0	46.7	93.4	80-120	
1,1-Dichloroethane	50.0	49.3	98.6	80-120	
1,1-Dichloroethene	50.0	46.8	93.6	80-120	
1,1-Dichloropropene	50.0	47.3	94.7	80-120	
1,2,3-Trichlorobenzene	50.0	51.4	103	80-120	
1,2,3-Trichloropropane	50.0	48.5	97.1	80-120	
1,2,4-Trichlorobenzene	50.0	50.8	102	80-120	
1,2,4-Trimethylbenzene	50.0	46.4	92.7	80-120	
1,2-Dibromo-3-Chloropropane	50.0	49.4	98.9	80-120	
1,2-Dibromoethane	50.0	49.1	98.2	80-120	
Acrolein	100	100	100	80-120	
Acrylonitrile	100	103	103	80-120	
1,2-Dichlorobenzene	50.0	47.8	95.6	80-120	
1,2-Dichloroethane	50.0	47.8	95.7	80-120	
1,2-Dichloropropane	50.0	47.4	94.8	80-120	
1,3,5-Trimethylbenzene	50.0	45.9	91.7	80-120	
1,3-Dichlorobenzene	50.0	48.8	97.6	80-120	
1,3-Dichloropropane	50.0	46.7	93.5	80-120	
1,4-Dichlorobenzene	50.0	49.0	97.9	80-120	
1-Chlorohexane	50.0	43.9	87.8	80-120	
2,2-Dichloropropane	50.0	47.5	95.0	80-120	
2-Butanone	100	101	101	80-120	
2-Chloroethylvinyl ether	100	0.000		80-120	*
2-Chlorotoluene	50.0	45.6	91.2	80-120	
4-Chlorotoluene	50.0	46.4	92.8	80-120	

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP / Site 46

Workorder HS24021563

RunID U022713.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix	LIQUID	**Fraction**	VOA
Lab Smp Id	ICV	**Client Smp ID**	ICV
Data Type	MS DATA	**SampleType**	METHSPIKE
File ID	U022713.D	**Inj Date**	27-FEB-2024 1417

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
p-Isopropyltoluene	50.0	47.1	94.3	80-120	
4-Methyl-2-Pentanone	100	94.8	94.8	80-120	
Acetone	100	90.2	90.2	80-120	
Acetonitrile	500	460	91.9	80-120	
Allyl Chloride	50.0	50.9	102	80-120	
Benzene	50.0	48.4	96.9	80-120	
Bromobenzene	50.0	46.7	93.4	80-120	
Bromochloromethane	50.0	51.0	102	80-120	
Bromodichloromethane	50.0	47.4	94.8	80-120	
Bromoform	50.0	48.3	96.6	80-120	
Bromomethane	50.0	56.5	113	80-120	
Carbon Tetrachloride	50.0	45.6	91.2	80-120	
Chlorobenzene	50.0	46.5	92.9	80-120	
Chloroethane	50.0	47.2	94.4	80-120	
Chloroform	50.0	48.9	97.8	80-120	
Chloromethane	50.0	48.6	97.3	80-120	
Chloroprene	50.0	48.7	97.3	80-120	
cis-1,2-Dichloroethene	50.0	48.5	97.0	80-120	
cis-1,3-Dichloropropene	50.0	50.1	100	80-120	
Dibromochloromethane	50.0	48.2	96.4	80-120	
Dibromomethane	50.0	51.6	103	80-120	
Dichlorodifluoromethane	50.0	49.6	99.3	80-120	
Ethylbenzene	50.0	47.1	94.2	80-120	
Ethyl Methacrylate	50.0	45.3	90.6	80-120	
Iodomethane	100	81.5	81.5	80-120	
Isobutyl Alcohol	1000	1016	102	70-130	
Propionitrile	500	509	102	70-130	
Hexachlorobutadiene	50.0	44.5	89.1	80-120	
Isopropylbenzene	50.0	46.9	93.7	80-120	
m,p-Xylenes	100	94.3	94.3	80-120	
Methyl tert-butyl ether	50.0	49.3	98.5	80-120	
Methylene Chloride	50.0	48.7	97.4	80-120	
Methacrylonitrile	50.0	51.1	102	80-120	
Methyl Methacrylate	50.0	45.9	91.8	80-120	

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP / Site 46

Workorder HS24021563

RunID U022713.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix	LIQUID	**Fraction**	VOA
Lab Smp Id	ICV	**Client Smp ID**	ICV
Data Type	MS DATA	**SampleType**	METHSPIKE
File ID	U022713.D	**Inj Date**	27-FEB-2024 1417

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
n-Butylbenzene	50.0	47.9	95.9	80-120	
n-Propylbenzene	50.0	46.0	92.1	80-120	
Naphthalene	50.0	52.3	105	80-120	
o-Xylene	50.0	47.6	95.2	80-120	
sec-Butylbenzene	50.0	47.0	94.0	80-120	
Styrene	50.0	48.2	96.3	80-120	
tert-Butylbenzene	50.0	46.8	93.5	80-120	
Tetrachloroethene	50.0	46.6	93.2	80-120	
Toluene	50.0	45.7	91.3	80-120	
trans-1,2-Dichloroethene	50.0	46.1	92.2	80-120	
trans-1,3-Dichloropropene	50.0	52.7	105	80-120	
trans-1,4-Dichloro-2-butene	50.0	45.9	91.8	80-120	
Trichloroethene	50.0	46.8	93.7	80-120	
Trichlorofluoromethane	50.0	50.5	101	80-120	
Vinyl Acetate	100	91.7	91.7	80-120	
Vinyl Chloride	50.0	48.4	96.9	80-120	
Methyl Acrylate	50.0	50.6	101	80-120	
Ethyl Acrylate	50.0	47.6	95.2	80-120	
Butyl acrylate	50.0	49.2	98.4	80-120	
2-Ethylhexyl Acrylate	50.0	50.5	101	80-120	
Allyl alcohol	1000	870	87.0	80-120	
1,2-Dichloroethylene (total)	100	94.2	94.2	80-120	
Xylenes (total)	150	138	92.0	80-120	
1,4-Dioxane	1000	1107	111	80-120	
Dibromofluoromethane	50.0	50.4	101	71-125	
1,2-Dichloroethane-d4	50.0	51.2	102	70-125	
Toluene-d8	50.0	46.3	92.5	75-125	
4-Bromofluorobenzene	50.0	49.4	98.9	72-125	

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Form 7

Continuing Calibration Verification (CCV)

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24021563

Client

Bhate Environmental Associates, Inc.

Project

LHAAP / Site 46

03/21/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP / Site 46

Workorder HS24021563

RunID F022902.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa10.i
Lab File ID F022902.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 29-FEB-2024 0954
ICAL Date(s) 28-FEB-2024, 28-FEB-2024
ICAL Times 17:09, 20:18
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Dichlorodifluoromethane	0.431	0.454	0.454	0.100	-5.141	20.0	Averaged	
Chloromethane	0.909	0.883	0.883	0.100	2.90	20.0	Averaged	
Propionitrile	0.058	0.062	0.062	0.010	-6.671	20.0	Averaged	
Vinyl Chloride	0.593	0.609	0.609	0.100	-2.611	20.0	Averaged	
Bromomethane	50.0	47.8	0.191	0.100	4.44	20.0	Linear	
Chloroethane	0.352	0.351	0.351	0.100	0.266	20.0	Averaged	
Trichlorofluoromethane	0.587	0.617	0.617	0.100	-5.174	20.0	Averaged	
Acrolein	0.150	0.175	0.175	0.020	-16.563	20.0	Averaged	
Acetone	100	155	0.285	0.100	-55.149	20.0	Quadratic	*
1,1-Dichloroethene	0.357	0.385	0.385	0.100	-7.732	20.0	Averaged	
Isobutyl Alcohol	0.069	0.082	0.082	0.005	-19.221	20.0	Averaged	
Acetonitrile	500	433	0.054	0.005	13.4	20.0	Quadratic	
Allyl Chloride	50.0	54.8	0.943	0.100	-9.548	20.0	Quadratic	
Iodomethane	100	129	0.343	0.100	-29.044	20.0	Quadratic	*
Acrylonitrile	100	117	0.167	0.050	-16.728	20.0	Linear	
Methylene Chloride	50.0	54.4	0.457	0.100	-8.722	20.0	Linear	
Methyl tert-butyl ether	1.20	1.29	1.29	0.100	-7.840	20.0	Averaged	
Carbon Disulfide	100	108	1.27	0.100	-7.647	20.0	Linear	
trans-1,2-Dichloroethene	0.423	0.433	0.433	0.100	-2.472	20.0	Averaged	
Vinyl Acetate	1.02	1.07	1.07	0.010	-5.162	20.0	Averaged	
1,1-Dichloroethane	0.864	0.866	0.866	0.200	-0.211	20.0	Averaged	
2-Butanone	100	118	0.229	0.100	-17.588	20.0	Quadratic	
Methacrylonitrile	50.0	59.1	0.506	0.100	-18.150	20.0	Linear	
2,2-Dichloropropane	0.589	0.661	0.661	0.100	-12.207	20.0	Averaged	
cis-1,2-Dichloroethene	0.466	0.469	0.469	0.100	-0.572	20.0	Averaged	
Chloroform	50.0	54.0	0.791	0.200	-7.940	20.0	Linear	
Bromochloromethane	0.189	0.195	0.195	0.100	-2.941	20.0	Averaged	
30 Dibromofluoromethane	50.0	54.5	0.410	0.100	-9.082	20.0	Quadratic	
1,1,1-Trichloroethane	0.637	0.684	0.684	0.100	-7.515	20.0	Averaged	
1,1-Dichloropropene	0.439	0.447	0.447	0.100	-1.871	20.0	Averaged	
1,2-Dichloroethane	0.431	0.446	0.446	0.100	-3.539	20.0	Averaged	
Carbon Tetrachloride	50.0	54.2	0.357	0.100	-8.441	20.0	Linear	
35 1,2-Dichloroethane-d4	50.0	53.4	0.560	0.100	-6.800	20.0	Quadratic	
Benzene	1.33	1.32	1.32	0.500	0.942	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP / Site 46

Workorder HS24021563

RunID F022902.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa10.i
Lab File ID F022902.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 29-FEB-2024 0954
ICAL Date(s) 28-FEB-2024, 28-FEB-2024
ICAL Times 17:09, 20:18
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Trichloroethene	0.298	0.304	0.304	0.200	-1.721	20.0	Averaged	
Bromodichloromethane	0.393	0.426	0.426	0.200	-8.336	20.0	Averaged	
Methyl Methacrylate	0.502	0.558	0.558	0.100	-11.081	20.0	Averaged	
1,2-Dichloropropane	0.359	0.369	0.369	0.100	-2.569	20.0	Averaged	
2-Nitropropane	50.0	58.3	0.102	0.000	-16.540	20.0	Quadratic	
Dibromomethane	0.159	0.175	0.175	0.100	-10.312	20.0	Averaged	
4-Methyl-2-Pentanone	100	111	0.486	0.100	-10.809	20.0	Quadratic	
cis-1,3-Dichloropropene	0.449	0.499	0.499	0.200	-11.103	20.0	Averaged	
48 Toluene-d8	50.0	54.9	1.42	0.100	-9.867	20.0	Quadratic	
Ethyl Methacrylate	50.0	57.1	0.230	0.100	-14.227	20.0	Quadratic	
Toluene	1.54	1.57	1.57	0.400	-2.447	20.0	Averaged	
trans-1,3-Dichloropropene	0.345	0.410	0.410	0.100	-18.736	20.0	Averaged	
2-Hexanone	0.269	0.320	0.320	0.100	-19.174	20.0	Averaged	
1,1,2-Trichloroethane	0.263	0.290	0.290	0.100	-10.300	20.0	Averaged	
1,3-Dichloropropane	0.577	0.623	0.623	0.100	-8.091	20.0	Averaged	
Dibromochloromethane	0.310	0.356	0.356	0.100	-15.062	20.0	Averaged	
Tetrachloroethene	0.269	0.291	0.291	0.200	-8.206	20.0	Averaged	
1,2-Dibromoethane	0.289	0.324	0.324	0.100	-11.975	20.0	Averaged	
1-Chlorohexane	50.0	56.4	0.336	0.100	-12.887	20.0	Linear	
Chlorobenzene	0.909	0.938	0.938	0.500	-3.247	20.0	Averaged	
1,1,1,2-Tetrachloroethane	0.314	0.346	0.346	0.100	-10.152	20.0	Averaged	
Ethylbenzene	0.459	0.504	0.504	0.100	-9.749	20.0	Averaged	
m,p-Xylenes	0.589	0.625	0.625	0.100	-6.111	20.0	Averaged	
o-Xylene	0.569	0.614	0.614	0.300	-7.933	20.0	Averaged	
Styrene	0.918	1.08	1.08	0.300	-17.781	20.0	Averaged	
Bromoform	0.210	0.246	0.246	0.100	-17.453	20.0	Averaged	
Isopropylbenzene	1.43	1.56	1.56	0.100	-9.273	20.0	Averaged	
1,1,2,2-Tetrachloroethane	0.758	0.837	0.837	0.300	-10.463	20.0	Averaged	
69 4-Bromofluorobenzene	50.0	54.4	0.504	0.100	-8.829	20.0	Quadratic	
1,2,3-Trichloropropane	50.0	53.7	0.916	0.100	-7.313	20.0	Quadratic	
trans-1,4-Dichloro-2-butene	0.101	0.116	0.116	0.050	-14.790	20.0	Averaged	
n-Propylbenzene	3.12	3.48	3.48	0.100	-11.429	20.0	Averaged	
Bromobenzene	0.729	0.754	0.754	0.100	-3.531	20.0	Averaged	
1,3,5-Trimethylbenzene	2.16	2.44	2.44	0.100	-12.962	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP / Site 46

Workorder HS24021563

RunID F022902.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa10.i
Lab File ID F022902.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 29-FEB-2024 0954
ICAL Date(s) 28-FEB-2024, 28-FEB-2024
ICAL Times 17:09, 20:18
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
2-Chlorotoluene	1.97	2.07	2.07	0.100	-4.944	20.0	Averaged	
4-Chlorotoluene	2.26	2.44	2.44	0.100	-7.762	20.0	Averaged	
tert-Butylbenzene	1.80	1.95	1.95	0.100	-7.950	20.0	Averaged	
1,2,4-Trimethylbenzene	2.20	2.47	2.47	0.100	-12.383	20.0	Averaged	
sec-Butylbenzene	2.47	2.76	2.76	0.100	-11.820	20.0	Averaged	
p-Isopropyltoluene	2.11	2.48	2.48	0.100	-17.841	20.0	Averaged	
1,3-Dichlorobenzene	1.32	1.38	1.38	0.600	-4.064	20.0	Averaged	
1,4-Dichlorobenzene	1.41	1.44	1.44	0.400	-1.898	20.0	Averaged	
n-Butylbenzene	50.0	58.2	2.43	0.500	-16.500	20.0	Linear	
1,2-Dichlorobenzene	1.31	1.39	1.39	0.400	-6.301	20.0	Averaged	
1,2-Dibromo-3-Chloropropane	50.0	57.3	0.126	0.050	-14.642	20.0	Linear	
1,2,4-Trichlorobenzene	50.0	58.5	0.969	0.200	-17.011	20.0	Linear	
Hexachlorobutadiene	50.0	58.3	0.452	0.100	-16.665	20.0	Linear	
Naphthalene	50.0	58.0	2.40	0.200	-15.976	20.0	Quadratic	
1,2,3-Trichlorobenzene	50.0	58.1	0.862	0.100	-16.120	20.0	Linear	
1,4-Dioxane	1000	1379	0.004	0.001	-37.898	20.0	Linear	*
Ethyl Acetate	0.519	0.622	0.622	0.100	-19.837	20.0	Averaged	
n-Hexane	0.521	0.625	0.625	0.100	-19.929	20.0	Averaged	
Freon TF	0.364	0.386	0.386	0.100	-6.023	20.0	Averaged	
Diethyl ether	50.0	58.2	0.641	0.100	-16.302	20.0	Linear	
Cyclohexane	50.0	55.0	0.826	0.100	-9.945	20.0	Linear	
Tetrahydrofuran	0.069	0.073	0.073	0.001	-6.496	20.0	Averaged	
Methyl Acetate	0.608	0.694	0.694	0.100	-14.142	20.0	Averaged	
Methylcyclohexane	0.487	0.549	0.549	0.100	-12.636	20.0	Averaged	
Tert-butyl alcohol	1000	1098	0.034	0.005	-9.775	20.0	Quadratic	
Isopropyl alcohol	1000	1395	0.027	0.005	-39.486	20.0	Quadratic	*
4-Methyl-2-pentanol	1000	1139	0.089	0.005	-13.904	20.0	Linear	
Diisopropyl ether	1.95	1.95	1.95	0.100	-0.050	20.0	Averaged	
Dichlorofluoromethane	0.702	0.676	0.676	0.100	3.63	20.0	Averaged	
1,2,3-Trimethylbenzene	50.0	54.4	2.18	0.100	-8.724	20.0	Linear	
2-Methylnaphthalene	50.0	64.4	1.08	0.100	-28.791	20.0	Quadratic	*
1-Methylnaphthalene	50.0	66.1	0.969	0.100	-32.226	20.0	Quadratic	*
tert-Amyl methyl ether	1.26	1.42	1.42	0.005	-12.372	20.0	Averaged	
tert-Butyl ethyl ether	1.44	1.51	1.51	0.100	-5.049	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP / Site 46

Workorder HS24021563

RunID F022902.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa10.i
Lab File ID F022902.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 29-FEB-2024 0954
ICAL Date(s) 28-FEB-2024, 28-FEB-2024
ICAL Times 17:09, 20:18
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
n-Butanol	0.012	0.013	0.013	0.005	-8.847	20.0	Averaged	
1,3-Butadiene	0.185	0.210	0.210	0.100	-13.521	20.0	Averaged	
n-Butyl acetate	50.0	54.3	0.718	0.100	-8.578	20.0	Linear	
Benzyl Chloride	1.10	1.32	1.32	0.010	-19.560	20.0	Averaged	
Epichlorohydrin	200	176	0.009	0.001	12.2	20.0	Quadratic	
Allyl alcohol	1000	1290	0.006	0.004	-28.984	20.0	Linear	*
Butyl acrylate	50.0	49.7	0.842	0.100	0.700	20.0	Linear	
Acetaldehyde	200	223	0.213	0.001	-11.586	20.0	Quadratic	
Methyl Acrylate	0.411	0.464	0.464	0.100	-12.999	20.0	Averaged	
Ethyl Acrylate	0.535	0.609	0.609	0.100	-13.889	20.0	Averaged	
94 1,2-Dichloroethylene (total	0.444	0.451	0.451	0.200	-1.476	20.0	Averaged	
95 Xylenes (total)	0.486	0.518	0.518	0.100	-6.596	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP / Site 46

Workorder HS24021563

RunID F022940.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa10.i
Lab File ID F022940.D
Analysis Type WATER
Lab Sample ID CCV-END

Injection Date 29-FEB-2024 1949
ICAL Date(s) 28-FEB-2024, 28-FEB-2024
ICAL Times 17:09, 20:18
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Dichlorodifluoromethane	0.431	0.390	0.390	0.100	9.67	50.0	Averaged	
Chloromethane	0.909	0.794	0.794	0.100	12.7	50.0	Averaged	
Propionitrile	0.058	0.050	0.050	0.010	14.4	50.0	Averaged	
Vinyl Chloride	0.593	0.530	0.530	0.100	10.6	50.0	Averaged	
Bromomethane	50.0	50.9	0.203	0.100	-1.803	50.0	Linear	
Chloroethane	0.352	0.321	0.321	0.100	8.75	50.0	Averaged	
Trichlorofluoromethane	0.587	0.574	0.574	0.100	2.22	50.0	Averaged	
Acrolein	0.150	0.145	0.145	0.020	3.13	50.0	Averaged	
Acetone	100	90.6	0.171	0.100	9.38	50.0	Quadratic	
1,1-Dichloroethene	0.357	0.356	0.356	0.100	0.287	50.0	Averaged	
Isobutyl Alcohol	0.069	0.063	0.063	0.005	8.39	50.0	Averaged	
Acetonitrile	500	424	0.053	0.005	15.2	50.0	Quadratic	
Allyl Chloride	50.0	53.4	0.919	0.100	-6.781	50.0	Quadratic	
Iodomethane	100	105	0.273	0.100	-4.680	50.0	Quadratic	
Acrylonitrile	100	97.4	0.140	0.050	2.60	50.0	Linear	
Methylene Chloride	50.0	50.1	0.422	0.100	-0.281	50.0	Linear	
Methyl tert-butyl ether	1.20	1.14	1.14	0.100	4.69	50.0	Averaged	
Carbon Disulfide	100	97.1	1.15	0.100	2.90	50.0	Linear	
trans-1,2-Dichloroethene	0.423	0.428	0.428	0.100	-1.249	50.0	Averaged	
Vinyl Acetate	1.02	0.967	0.967	0.010	4.85	50.0	Averaged	
1,1-Dichloroethane	0.864	0.791	0.791	0.200	8.50	50.0	Averaged	
2-Butanone	100	93.0	0.183	0.100	6.95	50.0	Quadratic	
Methacrylonitrile	50.0	47.0	0.405	0.100	5.91	50.0	Linear	
2,2-Dichloropropane	0.589	0.562	0.562	0.100	4.50	50.0	Averaged	
cis-1,2-Dichloroethene	0.466	0.455	0.455	0.100	2.44	50.0	Averaged	
Chloroform	50.0	51.4	0.754	0.200	-2.742	50.0	Linear	
Bromochloromethane	0.189	0.206	0.206	0.100	-8.956	50.0	Averaged	
30 Dibromofluoromethane	50.0	52.7	0.397	0.100	-5.374	50.0	Quadratic	
1,1,1-Trichloroethane	0.637	0.639	0.639	0.100	-0.434	50.0	Averaged	
1,1-Dichloropropene	0.439	0.415	0.415	0.100	5.32	50.0	Averaged	
1,2-Dichloroethane	0.431	0.405	0.405	0.100	6.04	50.0	Averaged	
Carbon Tetrachloride	50.0	53.8	0.354	0.100	-7.595	50.0	Linear	
35 1,2-Dichloroethane-d4	50.0	46.9	0.496	0.100	6.20	50.0	Quadratic	
Benzene	1.33	1.29	1.29	0.500	2.96	50.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP / Site 46

Workorder HS24021563

RunID F022940.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa10.i
Lab File ID F022940.D
Analysis Type WATER
Lab Sample ID CCV-END

Injection Date 29-FEB-2024 1949
ICAL Date(s) 28-FEB-2024, 28-FEB-2024
ICAL Times 17:09, 20:18
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Trichloroethene	0.298	0.313	0.313	0.200	-4.865	50.0	Averaged	
Bromodichloromethane	0.393	0.396	0.396	0.200	-0.546	50.0	Averaged	
Methyl Methacrylate	0.502	0.436	0.436	0.100	13.1	50.0	Averaged	
1,2-Dichloropropane	0.359	0.345	0.345	0.100	4.03	50.0	Averaged	
2-Nitropropane	50.0	49.8	0.087	0.000	0.479	50.0	Quadratic	
Dibromomethane	0.159	0.165	0.165	0.100	-3.588	50.0	Averaged	
4-Methyl-2-Pentanone	100	80.0	0.352	0.100	20.0	50.0	Quadratic	
cis-1,3-Dichloropropene	0.449	0.453	0.453	0.200	-0.956	50.0	Averaged	
48 Toluene-d8	50.0	53.2	1.37	0.100	-6.361	50.0	Quadratic	
Ethyl Methacrylate	50.0	40.1	0.161	0.100	19.8	50.0	Quadratic	
Toluene	1.54	1.50	1.50	0.400	2.12	50.0	Averaged	
trans-1,3-Dichloropropene	0.345	0.357	0.357	0.100	-3.358	50.0	Averaged	
2-Hexanone	0.269	0.228	0.228	0.100	15.3	50.0	Averaged	
1,1,2-Trichloroethane	0.263	0.267	0.267	0.100	-1.468	50.0	Averaged	
1,3-Dichloropropane	0.577	0.558	0.558	0.100	3.29	50.0	Averaged	
Dibromochloromethane	0.310	0.341	0.341	0.100	-10.046	50.0	Averaged	
Tetrachloroethene	0.269	0.293	0.293	0.200	-9.075	50.0	Averaged	
1,2-Dibromoethane	0.289	0.295	0.295	0.100	-1.938	50.0	Averaged	
1-Chlorohexane	50.0	48.3	0.288	0.100	3.32	50.0	Linear	
Chlorobenzene	0.909	0.916	0.916	0.500	-0.806	50.0	Averaged	
1,1,1,2-Tetrachloroethane	0.314	0.340	0.340	0.100	-8.087	50.0	Averaged	
Ethylbenzene	0.459	0.492	0.492	0.100	-7.157	50.0	Averaged	
m,p-Xylenes	0.589	0.607	0.607	0.100	-2.978	50.0	Averaged	
o-Xylene	0.569	0.595	0.595	0.300	-4.596	50.0	Averaged	
Styrene	0.918	1.03	1.03	0.300	-11.966	50.0	Averaged	
Bromoform	0.210	0.232	0.232	0.100	-10.372	50.0	Averaged	
Isopropylbenzene	1.43	1.51	1.51	0.100	-5.581	50.0	Averaged	
1,1,2,2-Tetrachloroethane	0.758	0.702	0.702	0.300	7.39	50.0	Averaged	
69 4-Bromofluorobenzene	50.0	51.2	0.476	0.100	-2.313	50.0	Quadratic	
1,2,3-Trichloropropane	50.0	41.9	0.733	0.100	16.2	50.0	Quadratic	
trans-1,4-Dichloro-2-butene	0.101	0.089	0.089	0.050	11.6	50.0	Averaged	
n-Propylbenzene	3.12	3.13	3.13	0.100	-0.172	50.0	Averaged	
Bromobenzene	0.729	0.740	0.740	0.100	-1.609	50.0	Averaged	
1,3,5-Trimethylbenzene	2.16	2.23	2.23	0.100	-3.177	50.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP / Site 46

Workorder HS24021563

RunID F022940.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa10.i
Lab File ID F022940.D
Analysis Type WATER
Lab Sample ID CCV-END

Injection Date 29-FEB-2024 1949
ICAL Date(s) 28-FEB-2024, 28-FEB-2024
ICAL Times 17:09, 20:18
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
2-Chlorotoluene	1.97	1.92	1.92	0.100	2.43	50.0	Averaged	
4-Chlorotoluene	2.26	2.21	2.21	0.100	2.25	50.0	Averaged	
tert-Butylbenzene	1.80	1.83	1.83	0.100	-1.649	50.0	Averaged	
1,2,4-Trimethylbenzene	2.20	2.28	2.28	0.100	-3.811	50.0	Averaged	
sec-Butylbenzene	2.47	2.54	2.54	0.100	-2.856	50.0	Averaged	
p-Isopropyltoluene	2.11	2.27	2.27	0.100	-7.777	50.0	Averaged	
1,3-Dichlorobenzene	1.32	1.36	1.36	0.600	-2.882	50.0	Averaged	
1,4-Dichlorobenzene	1.41	1.41	1.41	0.400	-0.108	50.0	Averaged	
n-Butylbenzene	50.0	50.3	2.10	0.500	-0.699	50.0	Linear	
1,2-Dichlorobenzene	1.31	1.35	1.35	0.400	-2.928	50.0	Averaged	
1,2-Dibromo-3-Chloropropane	50.0	47.2	0.104	0.050	5.52	50.0	Linear	
1,2,4-Trichlorobenzene	50.0	55.6	0.921	0.200	-11.251	50.0	Linear	
Hexachlorobutadiene	50.0	54.8	0.424	0.100	-9.567	50.0	Linear	
Naphthalene	50.0	47.8	1.99	0.200	4.50	50.0	Quadratic	
1,2,3-Trichlorobenzene	50.0	53.7	0.797	0.100	-7.431	50.0	Linear	
1,4-Dioxane	1000	826	0.002	0.001	17.4	50.0	Linear	
Ethyl Acetate	0.519	0.445	0.445	0.100	14.2	50.0	Averaged	
n-Hexane	0.521	0.518	0.518	0.100	0.657	50.0	Averaged	
Freon TF	0.364	0.369	0.369	0.100	-1.427	50.0	Averaged	
Diethyl ether	++++	++++	7.452e+57	0.100	++++	50.0	Linear	*
Cyclohexane	50.0	48.0	0.725	0.100	3.90	50.0	Linear	
Tetrahydrofuran	0.069	0.058	0.058	0.001	16.0	50.0	Averaged	
Methyl Acetate	0.608	0.539	0.539	0.100	11.5	50.0	Averaged	
Methylcyclohexane	0.487	0.478	0.478	0.100	1.95	50.0	Averaged	
Tert-butyl alcohol	1000	681	0.021	0.005	31.9	50.0	Quadratic	
Isopropyl alcohol	1000	777	0.015	0.005	22.3	50.0	Quadratic	
4-Methyl-2-pentanol	1000	411	0.031	0.005	58.9	50.0	Linear	*
Diisopropyl ether	1.95	1.81	1.81	0.100	7.28	50.0	Averaged	
Dichlorofluoromethane	0.702	0.657	0.657	0.100	6.35	50.0	Averaged	
1,2,3-Trimethylbenzene	50.0	51.6	2.07	0.100	-3.124	50.0	Linear	
2-Methylnaphthalene	50.0	44.6	0.732	0.100	10.8	50.0	Quadratic	
1-Methylnaphthalene	50.0	45.1	0.654	0.100	9.79	50.0	Quadratic	
tert-Amyl methyl ether	1.26	1.22	1.22	0.005	3.16	50.0	Averaged	
tert-Butyl ethyl ether	1.44	1.37	1.37	0.100	4.77	50.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP / Site 46

Workorder HS24021563

RunID F022940.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa10.i
Lab File ID F022940.D
Analysis Type WATER
Lab Sample ID CCV-END

Injection Date 29-FEB-2024 1949
ICAL Date(s) 28-FEB-2024, 28-FEB-2024
ICAL Times 17:09, 20:18
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
n-Butanol	0.012	0.011	0.011	0.005	8.06	50.0	Averaged	
1,3-Butadiene	0.185	0.156	0.156	0.100	15.7	50.0	Averaged	
n-Butyl acetate	50.0	41.7	0.548	0.100	16.6	50.0	Linear	
Benzyl Chloride	1.10	1.17	1.17	0.010	-6.092	50.0	Averaged	
Epichlorohydrin	200	152	0.008	0.001	23.8	50.0	Quadratic	
Allyl alcohol	1000	723	0.004	0.004	27.7	50.0	Linear	
Butyl acrylate	50.0	40.8	0.686	0.100	18.3	50.0	Linear	
Acetaldehyde	200	181	0.175	0.001	9.42	50.0	Quadratic	
Methyl Acrylate	0.411	0.395	0.395	0.100	3.92	50.0	Averaged	
Ethyl Acrylate	0.535	0.493	0.493	0.100	7.95	50.0	Averaged	
94 1,2-Dichloroethylene (total	0.444	0.441	0.441	0.200	0.685	50.0	Averaged	
95 Xylenes (total)	0.486	0.502	0.502	0.100	-3.323	50.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP / Site 46

Workorder HS24021563

RunID G022902.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa10.i
Lab File ID G022902.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 29-FEB-2024 2052
ICAL Date(s) 28-FEB-2024, 28-FEB-2024
ICAL Times 17:09, 20:18
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Dichlorodifluoromethane	0.431	0.392	0.392	0.100	9.25	20.0	Averaged	
Chloromethane	0.909	0.745	0.745	0.100	18.0	20.0	Averaged	
Propionitrile	0.058	0.055	0.055	0.010	5.59	20.0	Averaged	
Vinyl Chloride	0.593	0.523	0.523	0.100	11.9	20.0	Averaged	
Bromomethane	50.0	48.2	0.192	0.100	3.60	20.0	Linear	
Chloroethane	0.352	0.313	0.313	0.100	10.9	20.0	Averaged	
Trichlorofluoromethane	0.587	0.518	0.518	0.100	11.8	20.0	Averaged	
Acrolein	0.150	0.158	0.158	0.020	-4.891	20.0	Averaged	
Acetone	100	115	0.214	0.100	-14.649	20.0	Quadratic	
1,1-Dichloroethene	0.357	0.346	0.346	0.100	3.31	20.0	Averaged	
Isobutyl Alcohol	0.069	0.070	0.070	0.005	-1.080	20.0	Averaged	
Acetonitrile	500	365	0.046	0.005	26.9	20.0	Quadratic	*
Allyl Chloride	50.0	46.8	0.803	0.100	6.33	20.0	Quadratic	
Iodomethane	100	106	0.277	0.100	-5.872	20.0	Quadratic	
Acrylonitrile	100	103	0.148	0.050	-3.092	20.0	Linear	
Methylene Chloride	50.0	48.8	0.411	0.100	2.33	20.0	Linear	
Methyl tert-butyl ether	1.20	1.20	1.20	0.100	0.065	20.0	Averaged	
Carbon Disulfide	100	95.0	1.12	0.100	5.04	20.0	Linear	
trans-1,2-Dichloroethene	0.423	0.400	0.400	0.100	5.50	20.0	Averaged	
Vinyl Acetate	1.02	0.890	0.890	0.010	12.4	20.0	Averaged	
1,1-Dichloroethane	0.864	0.757	0.757	0.200	12.3	20.0	Averaged	
2-Butanone	100	103	0.202	0.100	-3.394	20.0	Quadratic	
Methacrylonitrile	50.0	47.0	0.404	0.100	6.09	20.0	Linear	
2,2-Dichloropropane	0.589	0.539	0.539	0.100	8.50	20.0	Averaged	
cis-1,2-Dichloroethene	0.466	0.433	0.433	0.100	7.04	20.0	Averaged	
Chloroform	50.0	48.6	0.714	0.200	2.75	20.0	Linear	
Bromochloromethane	0.189	0.191	0.191	0.100	-1.054	20.0	Averaged	
30 Dibromofluoromethane	50.0	48.7	0.368	0.100	2.63	20.0	Quadratic	
1,1,1-Trichloroethane	0.637	0.630	0.630	0.100	0.970	20.0	Averaged	
1,1-Dichloropropene	0.439	0.433	0.433	0.100	1.29	20.0	Averaged	
1,2-Dichloroethane	0.431	0.408	0.408	0.100	5.18	20.0	Averaged	
Carbon Tetrachloride	50.0	55.6	0.366	0.100	-11.230	20.0	Linear	
35 1,2-Dichloroethane-d4	50.0	44.9	0.475	0.100	10.3	20.0	Quadratic	
Benzene	1.33	1.28	1.28	0.500	3.85	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP / Site 46

Workorder HS24021563

RunID G022902.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa10.i
Lab File ID G022902.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 29-FEB-2024 2052
ICAL Date(s) 28-FEB-2024, 28-FEB-2024
ICAL Times 17:09, 20:18
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Trichloroethene	0.298	0.324	0.324	0.200	-8.639	20.0	Averaged	
Bromodichloromethane	0.393	0.405	0.405	0.200	-2.848	20.0	Averaged	
Methyl Methacrylate	0.502	0.477	0.477	0.100	5.04	20.0	Averaged	
1,2-Dichloropropane	0.359	0.347	0.347	0.100	3.32	20.0	Averaged	
2-Nitropropane	50.0	46.8	0.082	0.000	6.31	20.0	Quadratic	
Dibromomethane	0.159	0.169	0.169	0.100	-6.481	20.0	Averaged	
4-Methyl-2-Pentanone	100	98.0	0.431	0.100	1.96	20.0	Quadratic	
cis-1,3-Dichloropropene	0.449	0.461	0.461	0.200	-2.750	20.0	Averaged	
48 Toluene-d8	50.0	53.8	1.39	0.100	-7.641	20.0	Quadratic	
Ethyl Methacrylate	50.0	54.4	0.219	0.100	-8.745	20.0	Quadratic	
Toluene	1.54	1.56	1.56	0.400	-1.238	20.0	Averaged	
trans-1,3-Dichloropropene	0.345	0.370	0.370	0.100	-7.143	20.0	Averaged	
2-Hexanone	0.269	0.291	0.291	0.100	-8.202	20.0	Averaged	
1,1,2-Trichloroethane	0.263	0.277	0.277	0.100	-5.520	20.0	Averaged	
1,3-Dichloropropane	0.577	0.595	0.595	0.100	-3.172	20.0	Averaged	
Dibromochloromethane	0.310	0.360	0.360	0.100	-16.066	20.0	Averaged	
Tetrachloroethene	0.269	0.312	0.312	0.200	-15.863	20.0	Averaged	
1,2-Dibromoethane	0.289	0.317	0.317	0.100	-9.673	20.0	Averaged	
1-Chlorohexane	50.0	49.7	0.296	0.100	0.527	20.0	Linear	
Chlorobenzene	0.909	0.945	0.945	0.500	-3.966	20.0	Averaged	
1,1,1,2-Tetrachloroethane	0.314	0.350	0.350	0.100	-11.191	20.0	Averaged	
Ethylbenzene	0.459	0.500	0.500	0.100	-8.886	20.0	Averaged	
m,p-Xylenes	0.589	0.625	0.625	0.100	-6.119	20.0	Averaged	
o-Xylene	0.569	0.611	0.611	0.300	-7.510	20.0	Averaged	
Styrene	0.918	1.06	1.06	0.300	-15.139	20.0	Averaged	
Bromoform	0.210	0.239	0.239	0.100	-14.065	20.0	Averaged	
Isopropylbenzene	1.43	1.55	1.55	0.100	-8.014	20.0	Averaged	
1,1,2,2-Tetrachloroethane	0.758	0.773	0.773	0.300	-1.951	20.0	Averaged	
69 4-Bromofluorobenzene	50.0	51.4	0.478	0.100	-2.880	20.0	Quadratic	
1,2,3-Trichloropropane	50.0	47.9	0.827	0.100	4.28	20.0	Quadratic	
trans-1,4-Dichloro-2-butene	0.101	0.099	0.099	0.050	1.64	20.0	Averaged	
n-Propylbenzene	3.12	3.24	3.24	0.100	-3.875	20.0	Averaged	
Bromobenzene	0.729	0.766	0.766	0.100	-5.098	20.0	Averaged	
1,3,5-Trimethylbenzene	2.16	2.31	2.31	0.100	-6.598	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP / Site 46

Workorder HS24021563

RunID G022902.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa10.i
Lab File ID G022902.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 29-FEB-2024 2052
ICAL Date(s) 28-FEB-2024, 28-FEB-2024
ICAL Times 17:09, 20:18
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
2-Chlorotoluene	1.97	1.94	1.94	0.100	1.59	20.0	Averaged	
4-Chlorotoluene	2.26	2.26	2.26	0.100	0.388	20.0	Averaged	
tert-Butylbenzene	1.80	1.90	1.90	0.100	-5.362	20.0	Averaged	
1,2,4-Trimethylbenzene	2.20	2.34	2.34	0.100	-6.511	20.0	Averaged	
sec-Butylbenzene	2.47	2.63	2.63	0.100	-6.554	20.0	Averaged	
p-Isopropyltoluene	2.11	2.40	2.40	0.100	-13.892	20.0	Averaged	
1,3-Dichlorobenzene	1.32	1.41	1.41	0.600	-6.619	20.0	Averaged	
1,4-Dichlorobenzene	1.41	1.46	1.46	0.400	-3.653	20.0	Averaged	
n-Butylbenzene	50.0	53.7	2.24	0.500	-7.436	20.0	Linear	
1,2-Dichlorobenzene	1.31	1.43	1.43	0.400	-8.744	20.0	Averaged	
1,2-Dibromo-3-Chloropropane	50.0	56.8	0.125	0.050	-13.572	20.0	Linear	
1,2,4-Trichlorobenzene	50.0	57.1	0.945	0.200	-14.172	20.0	Linear	
Hexachlorobutadiene	50.0	59.2	0.459	0.100	-18.361	20.0	Linear	
Naphthalene	50.0	56.9	2.36	0.200	-13.882	20.0	Quadratic	
1,2,3-Trichlorobenzene	50.0	57.6	0.855	0.100	-15.221	20.0	Linear	
1,4-Dioxane	1000	1041	0.003	0.001	-4.142	20.0	Linear	
Ethyl Acetate	0.519	0.503	0.503	0.100	3.10	20.0	Averaged	
n-Hexane	0.521	0.549	0.549	0.100	-5.300	20.0	Averaged	
Freon TF	0.364	0.367	0.367	0.100	-0.779	20.0	Averaged	
Diethyl ether	++++	++++	7.452e+57	0.100	++++	20.0	Linear	*
Cyclohexane	50.0	49.4	0.745	0.100	1.18	20.0	Linear	
Tetrahydrofuran	0.069	0.065	0.065	0.001	5.44	20.0	Averaged	
Methyl Acetate	0.608	0.598	0.598	0.100	1.70	20.0	Averaged	
Methylcyclohexane	0.487	0.486	0.486	0.100	0.325	20.0	Averaged	
Tert-butyl alcohol	1000	938	0.029	0.005	6.22	20.0	Quadratic	
Isopropyl alcohol	1000	1006	0.019	0.005	-0.596	20.0	Quadratic	
4-Methyl-2-pentanol	1000	523	0.040	0.005	47.7	20.0	Linear	*
Diisopropyl ether	1.95	1.78	1.78	0.100	8.64	20.0	Averaged	
Dichlorofluoromethane	0.702	0.618	0.618	0.100	11.8	20.0	Averaged	
1,2,3-Trimethylbenzene	50.0	52.4	2.10	0.100	-4.765	20.0	Linear	
2-Methylnaphthalene	50.0	59.3	0.991	0.100	-18.532	20.0	Quadratic	
1-Methylnaphthalene	50.0	60.8	0.890	0.100	-21.697	20.0	Quadratic	*
tert-Amyl methyl ether	1.26	1.27	1.27	0.005	-1.122	20.0	Averaged	
tert-Butyl ethyl ether	1.44	1.39	1.39	0.100	3.44	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP / Site 46

Workorder HS24021563

RunID G022902.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa10.i
Lab File ID G022902.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 29-FEB-2024 2052
ICAL Date(s) 28-FEB-2024, 28-FEB-2024
ICAL Times 17:09, 20:18
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
n-Butanol	0.012	0.011	0.011	0.005	6.60	20.0	Averaged	
1,3-Butadiene	0.185	0.181	0.181	0.100	2.15	20.0	Averaged	
n-Butyl acetate	50.0	47.1	0.621	0.100	5.79	20.0	Linear	
Benzyl Chloride	1.10	1.25	1.25	0.010	-13.193	20.0	Averaged	
Epichlorohydrin	200	172	0.009	0.001	13.8	20.0	Quadratic	
Allyl alcohol	1000	1026	0.005	0.004	-2.641	20.0	Linear	
Butyl acrylate	50.0	44.9	0.758	0.100	10.1	20.0	Linear	
Acetaldehyde	200	193	0.186	0.001	3.54	20.0	Quadratic	
Methyl Acrylate	0.411	0.429	0.429	0.100	-4.370	20.0	Averaged	
Ethyl Acrylate	0.535	0.530	0.530	0.100	0.965	20.0	Averaged	
94 1,2-Dichloroethylene (total	0.444	0.416	0.416	0.200	6.31	20.0	Averaged	
95 Xylenes (total)	0.486	0.509	0.509	0.100	-4.704	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP / Site 46

Workorder HS24021563

RunID G022940.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa10.i
Lab File ID G022940.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 01-MAR-2024 0639
ICAL Date(s) 28-FEB-2024, 28-FEB-2024
ICAL Times 17:09, 20:18
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Dichlorodifluoromethane	0.431	0.356	0.356	0.100	17.5	50.0	Averaged	
Chloromethane	0.909	0.745	0.745	0.100	18.1	50.0	Averaged	
Propionitrile	0.058	0.049	0.049	0.010	15.9	50.0	Averaged	
Vinyl Chloride	0.593	0.500	0.500	0.100	15.8	50.0	Averaged	
Bromomethane	50.0	48.6	0.194	0.100	2.87	50.0	Linear	
Chloroethane	0.352	0.304	0.304	0.100	13.6	50.0	Averaged	
Trichlorofluoromethane	0.587	0.537	0.537	0.100	8.45	50.0	Averaged	
Acrolein	0.150	0.134	0.134	0.020	10.5	50.0	Averaged	
Acetone	100	81.9	0.156	0.100	18.1	50.0	Quadratic	
1,1-Dichloroethene	0.357	0.343	0.343	0.100	4.00	50.0	Averaged	
Isobutyl Alcohol	0.069	0.062	0.062	0.005	9.48	50.0	Averaged	
Acetonitrile	500	403	0.051	0.005	19.4	50.0	Quadratic	
Allyl Chloride	50.0	45.9	0.785	0.100	8.30	50.0	Quadratic	
Iodomethane	100	95.2	0.246	0.100	4.83	50.0	Quadratic	
Acrylonitrile	100	94.4	0.136	0.050	5.65	50.0	Linear	
Methylene Chloride	50.0	47.6	0.401	0.100	4.81	50.0	Linear	
Methyl tert-butyl ether	1.20	1.11	1.11	0.100	7.55	50.0	Averaged	
Carbon Disulfide	100	90.2	1.06	0.100	9.79	50.0	Linear	
trans-1,2-Dichloroethene	0.423	0.394	0.394	0.100	6.83	50.0	Averaged	
Vinyl Acetate	1.02	0.914	0.914	0.010	10.1	50.0	Averaged	
1,1-Dichloroethane	0.864	0.768	0.768	0.200	11.2	50.0	Averaged	
2-Butanone	100	79.5	0.157	0.100	20.5	50.0	Quadratic	
Methacrylonitrile	50.0	38.4	0.332	0.100	23.2	50.0	Linear	
2,2-Dichloropropane	0.589	0.457	0.457	0.100	22.4	50.0	Averaged	
cis-1,2-Dichloroethene	0.466	0.441	0.441	0.100	5.37	50.0	Averaged	
Chloroform	50.0	48.3	0.709	0.200	3.42	50.0	Linear	
Bromochloromethane	0.189	0.195	0.195	0.100	-3.195	50.0	Averaged	
30 Dibromofluoromethane	50.0	50.3	0.380	0.100	-0.679	50.0	Quadratic	
1,1,1-Trichloroethane	0.637	0.608	0.608	0.100	4.55	50.0	Averaged	
1,1-Dichloropropene	0.439	0.409	0.409	0.100	6.77	50.0	Averaged	
1,2-Dichloroethane	0.431	0.402	0.402	0.100	6.65	50.0	Averaged	
Carbon Tetrachloride	50.0	53.3	0.351	0.100	-6.555	50.0	Linear	
35 1,2-Dichloroethane-d4	50.0	44.5	0.472	0.100	11.1	50.0	Quadratic	
Benzene	1.33	1.28	1.28	0.500	3.72	50.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP / Site 46

Workorder HS24021563

RunID G022940.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa10.i
Lab File ID G022940.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 01-MAR-2024 0639
ICAL Date(s) 28-FEB-2024, 28-FEB-2024
ICAL Times 17:09, 20:18
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Trichloroethene	0.298	0.317	0.317	0.200	-6.213	50.0	Averaged	
Bromodichloromethane	0.393	0.392	0.392	0.200	0.250	50.0	Averaged	
Methyl Methacrylate	0.502	0.429	0.429	0.100	14.5	50.0	Averaged	
1,2-Dichloropropane	0.359	0.343	0.343	0.100	4.59	50.0	Averaged	
2-Nitropropane	50.0	43.2	0.076	0.000	13.7	50.0	Quadratic	
Dibromomethane	0.159	0.165	0.165	0.100	-3.567	50.0	Averaged	
4-Methyl-2-Pentanone	100	83.5	0.368	0.100	16.5	50.0	Quadratic	
cis-1,3-Dichloropropene	0.449	0.439	0.439	0.200	2.12	50.0	Averaged	
48 Toluene-d8	50.0	54.3	1.40	0.100	-8.619	50.0	Quadratic	
Ethyl Methacrylate	50.0	42.0	0.168	0.100	16.0	50.0	Quadratic	
Toluene	1.54	1.54	1.54	0.400	-0.096	50.0	Averaged	
trans-1,3-Dichloropropene	0.345	0.339	0.339	0.100	1.67	50.0	Averaged	
2-Hexanone	0.269	0.237	0.237	0.100	11.8	50.0	Averaged	
1,1,2-Trichloroethane	0.263	0.269	0.269	0.100	-2.217	50.0	Averaged	
1,3-Dichloropropane	0.577	0.570	0.570	0.100	1.22	50.0	Averaged	
Dibromochloromethane	0.310	0.348	0.348	0.100	-12.391	50.0	Averaged	
Tetrachloroethene	0.269	0.296	0.296	0.200	-9.992	50.0	Averaged	
1,2-Dibromoethane	0.289	0.298	0.298	0.100	-3.194	50.0	Averaged	
1-Chlorohexane	50.0	46.0	0.274	0.100	8.09	50.0	Linear	
Chlorobenzene	0.909	0.933	0.933	0.500	-2.630	50.0	Averaged	
1,1,1,2-Tetrachloroethane	0.314	0.340	0.340	0.100	-8.034	50.0	Averaged	
Ethylbenzene	0.459	0.493	0.493	0.100	-7.385	50.0	Averaged	
m,p-Xylenes	0.589	0.609	0.609	0.100	-3.304	50.0	Averaged	
o-Xylene	0.569	0.591	0.591	0.300	-3.954	50.0	Averaged	
Styrene	0.918	1.03	1.03	0.300	-12.717	50.0	Averaged	
Bromoform	0.210	0.236	0.236	0.100	-12.308	50.0	Averaged	
Isopropylbenzene	1.43	1.51	1.51	0.100	-5.239	50.0	Averaged	
1,1,2,2-Tetrachloroethane	0.758	0.704	0.704	0.300	7.12	50.0	Averaged	
69 4-Bromofluorobenzene	50.0	50.2	0.467	0.100	-0.440	50.0	Quadratic	
1,2,3-Trichloropropane	50.0	41.4	0.725	0.100	17.2	50.0	Quadratic	
trans-1,4-Dichloro-2-butene	0.101	0.079	0.079	0.050	21.4	50.0	Averaged	
n-Propylbenzene	3.12	3.15	3.15	0.100	-0.839	50.0	Averaged	
Bromobenzene	0.729	0.754	0.754	0.100	-3.439	50.0	Averaged	
1,3,5-Trimethylbenzene	2.16	2.26	2.26	0.100	-4.242	50.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP / Site 46

Workorder HS24021563

RunID G022940.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa10.i
Lab File ID G022940.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 01-MAR-2024 0639
ICAL Date(s) 28-FEB-2024, 28-FEB-2024
ICAL Times 17:09, 20:18
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
2-Chlorotoluene	1.97	1.93	1.93	0.100	2.14	50.0	Averaged	
4-Chlorotoluene	2.26	2.19	2.19	0.100	3.09	50.0	Averaged	
tert-Butylbenzene	1.80	1.86	1.86	0.100	-3.246	50.0	Averaged	
1,2,4-Trimethylbenzene	2.20	2.24	2.24	0.100	-2.024	50.0	Averaged	
sec-Butylbenzene	2.47	2.54	2.54	0.100	-2.970	50.0	Averaged	
p-Isopropyltoluene	2.11	2.25	2.25	0.100	-6.803	50.0	Averaged	
1,3-Dichlorobenzene	1.32	1.37	1.37	0.600	-3.240	50.0	Averaged	
1,4-Dichlorobenzene	1.41	1.41	1.41	0.400	-0.166	50.0	Averaged	
n-Butylbenzene	50.0	48.4	2.02	0.500	3.11	50.0	Linear	
1,2-Dichlorobenzene	1.31	1.35	1.35	0.400	-3.142	50.0	Averaged	
1,2-Dibromo-3-Chloropropane	50.0	48.7	0.107	0.050	2.68	50.0	Linear	
1,2,4-Trichlorobenzene	50.0	55.4	0.917	0.200	-10.806	50.0	Linear	
Hexachlorobutadiene	50.0	54.0	0.418	0.100	-8.077	50.0	Linear	
Naphthalene	50.0	50.1	2.09	0.200	-0.148	50.0	Quadratic	
1,2,3-Trichlorobenzene	50.0	55.7	0.827	0.100	-11.476	50.0	Linear	
1,4-Dioxane	1000	897	0.003	0.001	10.3	50.0	Linear	
Ethyl Acetate	0.519	0.455	0.455	0.100	12.3	50.0	Averaged	
n-Hexane	0.521	0.442	0.442	0.100	15.2	50.0	Averaged	
Freon TF	0.364	0.337	0.337	0.100	7.36	50.0	Averaged	
Diethyl ether	++++	++++	7.452e+57	0.100	++++	50.0	Linear	*
Cyclohexane	50.0	45.3	0.685	0.100	9.45	50.0	Linear	
Tetrahydrofuran	0.069	0.062	0.062	0.001	10.3	50.0	Averaged	
Methyl Acetate	0.608	0.532	0.532	0.100	12.6	50.0	Averaged	
Methylcyclohexane	0.487	0.501	0.501	0.100	-2.733	50.0	Averaged	
Tert-butyl alcohol	1000	767	0.024	0.005	23.3	50.0	Quadratic	
Isopropyl alcohol	1000	830	0.016	0.005	17.0	50.0	Quadratic	
4-Methyl-2-pentanol	1000	438	0.033	0.005	56.2	50.0	Linear	*
Diisopropyl ether	1.95	1.77	1.77	0.100	8.85	50.0	Averaged	
Dichlorofluoromethane	0.702	0.625	0.625	0.100	10.9	50.0	Averaged	
1,2,3-Trimethylbenzene	50.0	51.8	2.08	0.100	-3.611	50.0	Linear	
2-Methylnaphthalene	50.0	48.4	0.800	0.100	3.13	50.0	Quadratic	
1-Methylnaphthalene	50.0	50.4	0.733	0.100	-0.816	50.0	Quadratic	
tert-Amyl methyl ether	1.26	1.20	1.20	0.005	4.75	50.0	Averaged	
tert-Butyl ethyl ether	1.44	1.34	1.34	0.100	7.15	50.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP / Site 46

Workorder HS24021563

RunID G022940.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa10.i
Lab File ID G022940.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 01-MAR-2024 0639
ICAL Date(s) 28-FEB-2024, 28-FEB-2024
ICAL Times 17:09, 20:18
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
n-Butanol	0.012	0.010	0.010	0.005	15.8	50.0	Averaged	
1,3-Butadiene	0.185	0.167	0.167	0.100	9.82	50.0	Averaged	
n-Butyl acetate	50.0	42.4	0.557	0.100	15.2	50.0	Linear	
Benzyl Chloride	1.10	1.11	1.11	0.010	-0.614	50.0	Averaged	
Epichlorohydrin	200	153	0.008	0.001	23.3	50.0	Quadratic	
Allyl alcohol	1000	828	0.004	0.004	17.2	50.0	Linear	
Butyl acrylate	50.0	40.9	0.687	0.100	18.1	50.0	Linear	
Acetaldehyde	200	174	0.169	0.001	13.0	50.0	Quadratic	
Methyl Acrylate	0.411	0.371	0.371	0.100	9.65	50.0	Averaged	
Ethyl Acrylate	0.535	0.486	0.486	0.100	9.09	50.0	Averaged	
94 1,2-Dichloroethylene (total	0.444	0.418	0.418	0.200	6.07	50.0	Averaged	
95 Xylenes (total)	0.486	0.494	0.494	0.100	-1.608	50.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP / Site 46

Workorder HS24021563

RunID V022902.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID V022902.D
Analysis Type WATER
Lab Sample ID CCV

Injection Date 29-FEB-2024 2217
ICAL Date(s) 27-FEB-2024, 27-FEB-2024
ICAL Times 10:12, 13:32
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Dichlorodifluoromethane	0.476	0.461	0.461	0.100	3.22	20.0	Averaged	
Chloromethane	0.591	0.556	0.556	0.100	6.02	20.0	Averaged	
Propionitrile	0.073	0.068	0.068	0.010	7.29	20.0	Averaged	
Vinyl Chloride	0.562	0.575	0.575	0.100	-2.377	20.0	Averaged	
Bromomethane	50.0	59.7	0.306	0.100	-19.397	20.0	Quadratic	
Chloroethane	0.388	0.391	0.391	0.100	-0.944	20.0	Averaged	
Trichlorofluoromethane	0.701	0.824	0.824	0.100	-17.511	20.0	Averaged	
Acrolein	100	101	0.024	0.010	-0.720	20.0	Linear	
Acetone	0.304	0.307	0.307	0.100	-0.966	20.0	Averaged	
1,1-Dichloroethene	0.424	0.430	0.430	0.100	-1.566	20.0	Averaged	
Isobutyl Alcohol	0.074	0.071	0.071	0.005	4.45	20.0	Averaged	
Acetonitrile	0.074	0.083	0.083	0.005	-13.235	20.0	Averaged	
Allyl Chloride	50.0	54.1	1.54	0.100	-8.154	20.0	Linear	
Iodomethane	100	92.8	0.473	0.100	7.18	20.0	Linear	
Acrylonitrile	100	107	0.205	0.050	-7.280	20.0	Linear	
Methylene Chloride	50.0	51.1	0.505	0.100	-2.165	20.0	Linear	
Methyl tert-butyl ether	1.41	1.55	1.55	0.100	-9.624	20.0	Averaged	
Carbon Disulfide	0.861	0.903	0.903	0.100	-4.867	20.0	Averaged	
trans-1,2-Dichloroethene	0.491	0.485	0.485	0.100	1.32	20.0	Averaged	
Vinyl Acetate	1.19	1.07	1.07	0.010	10.2	20.0	Averaged	
1,1-Dichloroethane	0.777	0.755	0.755	0.200	2.90	20.0	Averaged	
Chloroprene	0.150	0.163	0.163	0.100	-8.656	20.0	Averaged	
2-Butanone	0.202	0.168	0.168	0.100	16.9	20.0	Averaged	
Methacrylonitrile	50.0	51.1	0.373	0.100	-2.224	20.0	Quadratic	
2,2-Dichloropropane	0.715	0.615	0.615	0.100	14.0	20.0	Averaged	
cis-1,2-Dichloroethene	0.501	0.472	0.472	0.100	5.87	20.0	Averaged	
Chloroform	0.833	0.795	0.795	0.200	4.65	20.0	Averaged	
Bromochloromethane	0.254	0.258	0.258	0.100	-1.526	20.0	Averaged	
30 Dibromofluoromethane	50.0	51.7	0.506	0.100	-3.490	20.0	Linear	
1,1,1-Trichloroethane	0.741	0.687	0.687	0.100	7.33	20.0	Averaged	
1,1-Dichloropropene	0.422	0.395	0.395	0.100	6.34	20.0	Averaged	
1,2-Dichloroethane	0.478	0.440	0.440	0.100	7.98	20.0	Averaged	
Carbon Tetrachloride	50.0	43.0	0.399	0.100	14.0	20.0	Linear	
35 1,2-Dichloroethane-d4	50.0	50.3	0.593	0.100	-0.604	20.0	Linear	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP / Site 46

Workorder HS24021563

RunID V022902.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID V022902.D
Analysis Type WATER
Lab Sample ID CCV

Injection Date 29-FEB-2024 2217
ICAL Date(s) 27-FEB-2024, 27-FEB-2024
ICAL Times 10:12, 13:32
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Benzene	1.24	1.20	1.20	0.500	2.88	20.0	Averaged	
Trichloroethene	0.362	0.340	0.340	0.200	6.01	20.0	Averaged	
Bromodichloromethane	0.468	0.422	0.422	0.200	9.95	20.0	Averaged	
Methyl Methacrylate	0.368	0.372	0.372	0.100	-1.118	20.0	Averaged	
1,2-Dichloropropane	0.331	0.321	0.321	0.100	3.06	20.0	Averaged	
2-Nitropropane	1.02	0.923	0.923	0.000	9.62	20.0	Averaged	
Dibromomethane	0.204	0.211	0.211	0.100	-3.476	20.0	Averaged	
4-Methyl-2-Pentanone	0.384	0.322	0.322	0.100	16.0	20.0	Averaged	
cis-1,3-Dichloropropene	0.516	0.501	0.501	0.200	2.81	20.0	Averaged	
48 Toluene-d8	1.43	1.38	1.38	0.100	3.31	20.0	Averaged	
Ethyl Methacrylate	0.488	0.407	0.407	0.100	16.6	20.0	Averaged	
Toluene	1.54	1.39	1.39	0.400	10.0	20.0	Averaged	
trans-1,3-Dichloropropene	0.435	0.446	0.446	0.100	-2.654	20.0	Averaged	
2-Hexanone	0.301	0.294	0.294	0.100	2.50	20.0	Averaged	
1,1,2-Trichloroethane	0.284	0.260	0.260	0.100	8.75	20.0	Averaged	
1,3-Dichloropropane	0.611	0.547	0.547	0.100	10.5	20.0	Averaged	
Dibromochloromethane	0.414	0.384	0.384	0.100	7.24	20.0	Averaged	
Tetrachloroethene	0.328	0.293	0.293	0.200	10.7	20.0	Averaged	
1,2-Dibromoethane	0.345	0.329	0.329	0.100	4.73	20.0	Averaged	
1-Chlorohexane	50.0	46.8	0.286	0.100	6.47	20.0	Linear	
Chlorobenzene	1.02	0.937	0.937	0.500	8.02	20.0	Averaged	
1,1,1,2-Tetrachloroethane	0.374	0.352	0.352	0.100	5.77	20.0	Averaged	
Ethylbenzene	0.517	0.480	0.480	0.100	7.11	20.0	Averaged	
m,p-Xylenes	0.655	0.610	0.610	0.100	6.89	20.0	Averaged	
o-Xylene	0.640	0.603	0.603	0.300	5.76	20.0	Averaged	
Styrene	1.13	1.08	1.08	0.300	4.94	20.0	Averaged	
Bromoform	0.327	0.291	0.291	0.100	10.8	20.0	Averaged	
Isopropylbenzene	1.64	1.54	1.54	0.100	6.32	20.0	Averaged	
1,1,2,2-Tetrachloroethane	0.915	0.766	0.766	0.300	16.3	20.0	Averaged	
69 4-Bromofluorobenzene	50.0	52.5	0.542	0.100	-4.954	20.0	Linear	
1,2,3-Trichloropropane	0.966	0.795	0.795	0.100	17.7	20.0	Averaged	
trans-1,4-Dichloro-2-butene	0.115	0.094	0.094	0.050	17.8	20.0	Averaged	
n-Propylbenzene	3.35	2.88	2.88	0.100	13.8	20.0	Averaged	
Bromobenzene	0.869	0.767	0.767	0.100	11.7	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP / Site 46

Workorder HS24021563

RunID V022902.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID V022902.D
Analysis Type WATER
Lab Sample ID CCV

Injection Date 29-FEB-2024 2217
ICAL Date(s) 27-FEB-2024, 27-FEB-2024
ICAL Times 10:12, 13:32
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
1,3,5-Trimethylbenzene	2.65	2.23	2.23	0.100	15.6	20.0	Averaged	
2-Chlorotoluene	2.16	1.84	1.84	0.100	15.0	20.0	Averaged	
4-Chlorotoluene	2.50	2.20	2.20	0.100	12.1	20.0	Averaged	
tert-Butylbenzene	2.17	1.92	1.92	0.100	11.7	20.0	Averaged	
1,2,4-Trimethylbenzene	2.59	2.28	2.28	0.100	11.8	20.0	Averaged	
sec-Butylbenzene	2.87	2.55	2.55	0.100	11.2	20.0	Averaged	
p-Isopropyltoluene	2.64	2.35	2.35	0.100	11.0	20.0	Averaged	
1,3-Dichlorobenzene	1.50	1.36	1.36	0.600	9.21	20.0	Averaged	
1,4-Dichlorobenzene	1.55	1.44	1.44	0.400	7.32	20.0	Averaged	
Benzyl Chloride	50.0	38.6	0.557	0.010	22.9	20.0	Quadratic	*
n-Butylbenzene	2.20	2.02	2.02	0.500	8.10	20.0	Averaged	
1,2-Dichlorobenzene	1.51	1.38	1.38	0.400	8.55	20.0	Averaged	
1,2-Dibromo-3-Chloropropane	0.172	0.141	0.141	0.050	18.4	20.0	Averaged	
1,2,4-Trichlorobenzene	1.01	0.917	0.917	0.200	9.52	20.0	Averaged	
Hexachlorobutadiene	0.459	0.377	0.377	0.100	18.0	20.0	Averaged	
Naphthalene	2.49	2.22	2.22	0.200	10.5	20.0	Averaged	
1,2,3-Trichlorobenzene	0.967	0.878	0.878	0.100	9.28	20.0	Averaged	
Methyl Acetate	0.615	0.560	0.560	0.100	8.97	20.0	Averaged	
Freon TF	0.380	0.428	0.428	0.100	-12.723	20.0	Averaged	
Cyclohexane	50.0	45.5	0.640	0.100	9.00	20.0	Linear	
Tetrahydrofuran	100	89.6	0.090	0.001	10.4	20.0	Linear	
Methylcyclohexane	50.0	49.6	0.899	0.100	0.748	20.0	Linear	
1,4-Dioxane	1000	960	0.007	0.001	3.96	20.0	Quadratic	
n-Butanol	0.020	0.017	0.017	0.005	13.8	20.0	Averaged	
n-Hexane	50.0	48.2	0.489	0.100	3.51	20.0	Linear	
Diethyl ether	50.0	55.3	0.395	0.100	-10.637	20.0	Linear	
Tert-butyl alcohol	0.069	0.069	0.069	0.005	-0.244	20.0	Averaged	
Isopropyl alcohol	0.040	0.042	0.042	0.005	-3.868	20.0	Averaged	
Amyl alcohol	0.017	0.015	0.015	0.005	11.6	20.0	Averaged	
Diisopropyl ether	1.55	1.61	1.61	0.100	-3.935	20.0	Averaged	
Butyl acrylate	0.856	0.839	0.839	0.100	1.98	20.0	Averaged	
n-Amyl acetate	0.683	0.682	0.682	0.100	0.133	20.0	Averaged	
Dicyclopentadiene	50.0	53.7	3.41	0.100	-7.367	20.0	Linear	
1,2,3-Trimethylbenzene	2.54	2.55	2.55	0.100	-0.417	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP / Site 46

Workorder HS24021563

RunID V022902.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID V022902.D
Analysis Type WATER
Lab Sample ID CCV

Injection Date 29-FEB-2024 2217
ICAL Date(s) 27-FEB-2024, 27-FEB-2024
ICAL Times 10:12, 13:32
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Ethanol	0.007	0.007	0.007	0.001	-5.064	20.0	Averaged	
tert-Butyl formate	0.604	0.461	0.461	0.100	23.6	20.0	Averaged	*
3,3-Dimethyl-1-butanol	1000	890	0.050	0.005	11.0	20.0	Linear	
tert-Amyl methyl ether	1.52	1.54	1.54	0.005	-1.059	20.0	Averaged	
tert-Butyl ethyl ether	1.48	1.46	1.46	0.100	1.52	20.0	Averaged	
tert-Amyl alcohol	0.060	0.046	0.046	0.005	23.1	20.0	Averaged	*
4-Methyl-2-pentanol	0.138	0.115	0.115	0.005	16.9	20.0	Averaged	
1,3-Butadiene	50.0	48.6	0.195	0.100	2.77	20.0	Linear	
Dichlorofluoromethane	0.850	0.941	0.941	0.100	-10.684	20.0	Averaged	
Epichlorohydrin	200	174	0.025	0.001	13.0	20.0	Linear	
94 1,2-Dichloroethylene (total	100	95.8	0.478	0.200	4.15	20.0	Linear	
95 Xylenes (total)	150	144	0.600	0.100	4.03	20.0	Linear	
alpha-Methylstyrene	1.10	0.969	0.969	0.100	11.7	20.0	Averaged	
Ethyl Acetate	0.572	0.466	0.466	0.100	18.5	20.0	Averaged	
Methyl Acrylate	50.0	47.0	0.563	0.100	5.94	20.0	Linear	
n-Butyl acetate	50.0	44.5	0.587	0.100	11.1	20.0	Linear	
Cyclohexanone	1000	931	0.046	0.005	6.95	20.0	Linear	
Isoprene	0.127	0.159	0.159	0.010	-25.274	20.0	Averaged	*
Isopropyl acetate	1.01	0.982	0.982	0.100	2.45	20.0	Averaged	
Allyl alcohol	1000	961	0.024	0.004	3.93	20.0	Linear	
Acetaldehyde	0.108	0.119	0.119	0.001	-10.577	20.0	Averaged	
Methyl Amyl Ketone	0.858	0.878	0.878	0.100	-2.278	20.0	Averaged	
Dimethyl Disulfide	0.693	0.643	0.643	0.020	7.31	20.0	Averaged	
Isobutylene	50.0	58.0	0.336	0.010	-16.003	20.0	Linear	
2-Ethylhexyl Acrylate	1.11	1.11	1.11	0.100	-0.200	20.0	Averaged	
Ethyl Acrylate	1.36	1.30	1.30	0.100	4.55	20.0	Averaged	
Butyl methacrylate	50.0	48.3	1.07	0.100	3.34	20.0	Linear	
Propylene oxide	100	120	0.051	0.005	-20.448	20.0	Quadratic	*

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP / Site 46

Workorder HS24021563

RunID V022927.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID V022927.D
Analysis Type WATER
Lab Sample ID CCV-END

Injection Date 01-MAR-2024 0734
ICAL Date(s) 27-FEB-2024, 27-FEB-2024
ICAL Times 10:12, 13:32
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Dichlorodifluoromethane	0.476	0.406	0.406	0.100	14.8	50.0	Averaged	
Chloromethane	0.591	0.539	0.539	0.100	8.84	50.0	Averaged	
Propionitrile	0.073	0.069	0.069	0.010	5.55	50.0	Averaged	
Vinyl Chloride	0.562	0.556	0.556	0.100	1.08	50.0	Averaged	
Bromomethane	50.0	58.3	0.298	0.100	-16.653	50.0	Quadratic	
Chloroethane	0.388	0.394	0.394	0.100	-1.503	50.0	Averaged	
Trichlorofluoromethane	0.701	0.759	0.759	0.100	-8.240	50.0	Averaged	
Acrolein	100	104	0.024	0.010	-3.553	50.0	Linear	
Acetone	0.304	0.267	0.267	0.100	12.1	50.0	Averaged	
1,1-Dichloroethene	0.424	0.427	0.427	0.100	-0.748	50.0	Averaged	
Isobutyl Alcohol	0.074	0.072	0.072	0.005	3.55	50.0	Averaged	
Acetonitrile	0.074	0.084	0.084	0.005	-13.636	50.0	Averaged	
Allyl Chloride	50.0	54.4	1.54	0.100	-8.761	50.0	Linear	
Iodomethane	100	92.6	0.472	0.100	7.39	50.0	Linear	
Acrylonitrile	100	104	0.199	0.050	-4.489	50.0	Linear	
Methylene Chloride	50.0	52.2	0.516	0.100	-4.354	50.0	Linear	
Methyl tert-butyl ether	1.41	1.55	1.55	0.100	-9.957	50.0	Averaged	
Carbon Disulfide	0.861	0.875	0.875	0.100	-1.619	50.0	Averaged	
trans-1,2-Dichloroethene	0.491	0.481	0.481	0.100	2.23	50.0	Averaged	
Vinyl Acetate	1.19	0.996	0.996	0.010	16.2	50.0	Averaged	
1,1-Dichloroethane	0.777	0.772	0.772	0.200	0.705	50.0	Averaged	
Chloroprene	0.150	0.155	0.155	0.100	-3.333	50.0	Averaged	
2-Butanone	0.202	0.173	0.173	0.100	14.0	50.0	Averaged	
Methacrylonitrile	50.0	49.0	0.357	0.100	1.91	50.0	Quadratic	
2,2-Dichloropropane	0.715	0.494	0.494	0.100	30.9	50.0	Averaged	
cis-1,2-Dichloroethene	0.501	0.489	0.489	0.100	2.31	50.0	Averaged	
Chloroform	0.833	0.801	0.801	0.200	3.92	50.0	Averaged	
Bromochloromethane	0.254	0.258	0.258	0.100	-1.526	50.0	Averaged	
30 Dibromofluoromethane	50.0	53.8	0.526	0.100	-7.515	50.0	Linear	
1,1,1-Trichloroethane	0.741	0.698	0.698	0.100	5.89	50.0	Averaged	
1,1-Dichloropropene	0.422	0.376	0.376	0.100	10.9	50.0	Averaged	
1,2-Dichloroethane	0.478	0.434	0.434	0.100	9.14	50.0	Averaged	
Carbon Tetrachloride	50.0	41.7	0.386	0.100	16.6	50.0	Linear	
35 1,2-Dichloroethane-d4	50.0	53.2	0.628	0.100	-6.454	50.0	Linear	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP / Site 46

Workorder HS24021563

RunID V022927.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID V022927.D
Analysis Type WATER
Lab Sample ID CCV-END

Injection Date 01-MAR-2024 0734
ICAL Date(s) 27-FEB-2024, 27-FEB-2024
ICAL Times 10:12, 13:32
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Benzene	1.24	1.17	1.17	0.500	5.14	50.0	Averaged	
Trichloroethene	0.362	0.333	0.333	0.200	8.03	50.0	Averaged	
Bromodichloromethane	0.468	0.403	0.403	0.200	14.1	50.0	Averaged	
Methyl Methacrylate	0.368	0.342	0.342	0.100	7.19	50.0	Averaged	
1,2-Dichloropropane	0.331	0.305	0.305	0.100	7.73	50.0	Averaged	
2-Nitropropane	1.02	0.938	0.938	0.000	8.08	50.0	Averaged	
Dibromomethane	0.204	0.199	0.199	0.100	2.22	50.0	Averaged	
4-Methyl-2-Pentanone	0.384	0.324	0.324	0.100	15.6	50.0	Averaged	
cis-1,3-Dichloropropene	0.516	0.456	0.456	0.200	11.6	50.0	Averaged	
48 Toluene-d8	1.43	1.38	1.38	0.100	3.50	50.0	Averaged	
Ethyl Methacrylate	0.488	0.390	0.390	0.100	20.0	50.0	Averaged	
Toluene	1.54	1.33	1.33	0.400	13.4	50.0	Averaged	
trans-1,3-Dichloropropene	0.435	0.389	0.389	0.100	10.5	50.0	Averaged	
2-Hexanone	0.301	0.276	0.276	0.100	8.31	50.0	Averaged	
1,1,2-Trichloroethane	0.284	0.248	0.248	0.100	12.7	50.0	Averaged	
1,3-Dichloropropane	0.611	0.525	0.525	0.100	14.1	50.0	Averaged	
Dibromochloromethane	0.414	0.365	0.365	0.100	11.7	50.0	Averaged	
Tetrachloroethene	0.328	0.286	0.286	0.200	12.8	50.0	Averaged	
1,2-Dibromoethane	0.345	0.307	0.307	0.100	10.9	50.0	Averaged	
1-Chlorohexane	50.0	40.0	0.244	0.100	20.0	50.0	Linear	
Chlorobenzene	1.02	0.886	0.886	0.500	13.0	50.0	Averaged	
1,1,1,2-Tetrachloroethane	0.374	0.330	0.330	0.100	11.6	50.0	Averaged	
Ethylbenzene	0.517	0.452	0.452	0.100	12.4	50.0	Averaged	
m,p-Xylenes	0.655	0.579	0.579	0.100	11.7	50.0	Averaged	
o-Xylene	0.640	0.576	0.576	0.300	9.89	50.0	Averaged	
Styrene	1.13	1.02	1.02	0.300	9.66	50.0	Averaged	
Bromoform	0.327	0.274	0.274	0.100	16.0	50.0	Averaged	
Isopropylbenzene	1.64	1.44	1.44	0.100	12.2	50.0	Averaged	
1,1,2,2-Tetrachloroethane	0.915	0.726	0.726	0.300	20.6	50.0	Averaged	
69 4-Bromofluorobenzene	50.0	51.6	0.533	0.100	-3.243	50.0	Linear	
1,2,3-Trichloropropane	0.966	0.727	0.727	0.100	24.8	50.0	Averaged	
trans-1,4-Dichloro-2-butene	0.115	0.078	0.078	0.050	32.2	50.0	Averaged	
n-Propylbenzene	3.35	2.69	2.69	0.100	19.5	50.0	Averaged	
Bromobenzene	0.869	0.718	0.718	0.100	17.3	50.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP / Site 46

Workorder HS24021563

RunID V022927.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID V022927.D
Analysis Type WATER
Lab Sample ID CCV-END

Injection Date 01-MAR-2024 0734
ICAL Date(s) 27-FEB-2024, 27-FEB-2024
ICAL Times 10:12, 13:32
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
1,3,5-Trimethylbenzene	2.65	2.10	2.10	0.100	20.5	50.0	Averaged	
2-Chlorotoluene	2.16	1.74	1.74	0.100	19.4	50.0	Averaged	
4-Chlorotoluene	2.50	2.05	2.05	0.100	17.8	50.0	Averaged	
tert-Butylbenzene	2.17	1.79	1.79	0.100	17.4	50.0	Averaged	
1,2,4-Trimethylbenzene	2.59	2.15	2.15	0.100	16.9	50.0	Averaged	
sec-Butylbenzene	2.87	2.36	2.36	0.100	18.0	50.0	Averaged	
p-Isopropyltoluene	2.64	2.16	2.16	0.100	18.1	50.0	Averaged	
1,3-Dichlorobenzene	1.50	1.29	1.29	0.600	13.6	50.0	Averaged	
1,4-Dichlorobenzene	1.55	1.36	1.36	0.400	12.1	50.0	Averaged	
Benzyl Chloride	50.0	24.5	0.341	0.010	51.0	50.0	Quadratic	*
n-Butylbenzene	2.20	1.77	1.77	0.500	19.2	50.0	Averaged	
1,2-Dichlorobenzene	1.51	1.31	1.31	0.400	13.2	50.0	Averaged	
1,2-Dibromo-3-Chloropropane	0.172	0.121	0.121	0.050	30.0	50.0	Averaged	
1,2,4-Trichlorobenzene	1.01	0.849	0.849	0.200	16.3	50.0	Averaged	
Hexachlorobutadiene	0.459	0.320	0.320	0.100	30.3	50.0	Averaged	
Naphthalene	2.49	2.04	2.04	0.200	17.9	50.0	Averaged	
1,2,3-Trichlorobenzene	0.967	0.799	0.799	0.100	17.4	50.0	Averaged	
Methyl Acetate	0.615	0.578	0.578	0.100	6.01	50.0	Averaged	
Freon TF	0.380	0.391	0.391	0.100	-2.871	50.0	Averaged	
Cyclohexane	50.0	42.6	0.599	0.100	14.7	50.0	Linear	
Tetrahydrofuran	100	91.8	0.092	0.001	8.15	50.0	Linear	
Methylcyclohexane	50.0	45.8	0.828	0.100	8.41	50.0	Linear	
1,4-Dioxane	1000	951	0.007	0.001	4.88	50.0	Quadratic	
n-Butanol	0.020	0.017	0.017	0.005	15.7	50.0	Averaged	
n-Hexane	50.0	34.4	0.343	0.100	31.2	50.0	Linear	
Diethyl ether	50.0	56.7	0.405	0.100	-13.385	50.0	Linear	
Tert-butyl alcohol	0.069	0.071	0.071	0.005	-2.556	50.0	Averaged	
Isopropyl alcohol	0.040	0.042	0.042	0.005	-5.033	50.0	Averaged	
Amyl alcohol	0.017	0.014	0.014	0.005	18.2	50.0	Averaged	
Diisopropyl ether	1.55	1.58	1.58	0.100	-1.702	50.0	Averaged	
Butyl acrylate	0.856	0.797	0.797	0.100	6.87	50.0	Averaged	
n-Amyl acetate	0.683	0.636	0.636	0.100	6.95	50.0	Averaged	
Dicyclopentadiene	50.0	52.3	3.32	0.100	-4.569	50.0	Linear	
1,2,3-Trimethylbenzene	2.54	2.46	2.46	0.100	3.03	50.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP / Site 46

Workorder HS24021563

RunID V022927.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID V022927.D
Analysis Type WATER
Lab Sample ID CCV-END

Injection Date 01-MAR-2024 0734
ICAL Date(s) 27-FEB-2024, 27-FEB-2024
ICAL Times 10:12, 13:32
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Ethanol	0.007	0.007	0.007	0.001	-6.581	50.0	Averaged	
tert-Butyl formate	0.604	0.488	0.488	0.100	19.1	50.0	Averaged	
3,3-Dimethyl-1-butanol	1000	834	0.046	0.005	16.6	50.0	Linear	
tert-Amyl methyl ether	1.52	1.51	1.51	0.005	0.743	50.0	Averaged	
tert-Butyl ethyl ether	1.48	1.48	1.48	0.100	0.099	50.0	Averaged	
tert-Amyl alcohol	0.060	0.049	0.049	0.005	18.6	50.0	Averaged	
4-Methyl-2-pentanol	0.138	0.116	0.116	0.005	16.4	50.0	Averaged	
1,3-Butadiene	50.0	45.7	0.183	0.100	8.53	50.0	Linear	
Dichlorofluoromethane	0.850	0.942	0.942	0.100	-10.789	50.0	Averaged	
Epichlorohydrin	200	155	0.022	0.001	22.6	50.0	Linear	
94 1,2-Dichloroethylene (total	100	97.1	0.485	0.200	2.86	50.0	Linear	
95 Xylenes (total)	150	133	0.553	0.100	11.4	50.0	Linear	
alpha-Methylstyrene	1.10	0.911	0.911	0.100	17.0	50.0	Averaged	
Ethyl Acetate	0.572	0.486	0.486	0.100	15.0	50.0	Averaged	
Methyl Acrylate	50.0	48.8	0.585	0.100	2.44	50.0	Linear	
n-Butyl acetate	50.0	42.2	0.555	0.100	15.7	50.0	Linear	
Cyclohexanone	1000	573	0.028	0.005	42.7	50.0	Linear	
Isoprene	0.127	0.133	0.133	0.010	-4.505	50.0	Averaged	
Isopropyl acetate	1.01	0.948	0.948	0.100	5.80	50.0	Averaged	
Allyl alcohol	1000	683	0.017	0.004	31.7	50.0	Linear	
Acetaldehyde	0.108	0.121	0.121	0.001	-12.054	50.0	Averaged	
Methyl Amyl Ketone	0.858	0.794	0.794	0.100	7.51	50.0	Averaged	
Dimethyl Disulfide	0.693	0.607	0.607	0.020	12.5	50.0	Averaged	
Isobutylene	++++	++++	8.369e+53	0.010	++++	50.0	Linear	*
2-Ethylhexyl Acrylate	1.11	0.986	0.986	0.100	10.8	50.0	Averaged	
Ethyl Acrylate	1.36	1.25	1.25	0.100	8.06	50.0	Averaged	
Butyl methacrylate	50.0	45.3	1.00	0.100	9.37	50.0	Linear	
Propylene oxide	100	144	0.062	0.005	-43.751	50.0	Quadratic	

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Form 8

Internal Standard Area and RT Summary

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24021563

Client

Bhate Environmental Associates, Inc.

Project

LHAAP / Site 46

03/21/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 8 - Internal Standard Area and RT Summary

Client Bhate Environmental Associates, Inc.

Project LHAAP / Site 46

Workorder HS24021563

EPA SW8260

VOA10_460168		Pentafluorobenzene				1,4 Difluorobenzene				Chlorobenzene d5				1,4-Dichlorobenzene d4			
Sample ID	File ID	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
12-HOUR STD (CCV)	F022902.D	211345	#	4.7	#	318503	#	5.44	#	265562	#	8.08	#	144114	#	10.07	#
HS24021563-02	F022907.D	204477		4.7		303296		5.44		245309		8.08		124662		10.08	
HS24021563-02MS	F022909.D	193722		4.69		298927		5.44		248257		8.08		125390		10.07	
HS24021563-02MSD	F022910.D	210248		4.69		310751		5.44		260625		8.08		140229		10.07	
HS24021563-06	F022929.D	199332		4.69		286505		5.44		239526		8.08		133973		10.07	
VBLKW-240229	F022906.D	205305		4.7		313800		5.44		256485		8.08		132255		10.07	
VLCSW-240229	F022904.D	201639		4.7		316444		5.44		267490		8.08		139886		10.07	

AREA UPPER LIMIT = +100% of STD IS Area
AREA LOWER LIMIT = - 50% of STD IS Area
RT - Retention IS - Internal StandardTime

RT UPPER LIMIT = + 0.50 of STD IS RT
RT LOWER LIMIT = - 0.50 of STD IS RT
CCV - Continuing Calibration Verification

- Area or RT Limit Flag
* - Value Outside Area or RT limits
H - Hour STD - Standard

Form 8 - Internal Standard Area and RT Summary

Client Bhate Environmental Associates, Inc.

Project LHAAP / Site 46

Workorder HS24021563

EPA SW8260

VOA10_460228		Pentafluorobenzene				1,4 Difluorobenzene				Chlorobenzene d5				1,4-Dichlorobenzene d4			
Sample ID	File ID	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
12-HOUR STD (CCV)	G022902.D	205636	#	4.7	#	292369	#	5.44	#	239741	#	8.08	#	133568	#	10.07	#
HS24021563-07	G022907.D	203332		4.69		295001		5.44		246537		8.08		133997		10.07	
HS24021563-08	G022908.D	207455		4.7		300949		5.44		260410		8.08		139053		10.08	
VBLKW-240229	G022906.D	219533		4.69		317394		5.44		260589		8.08		143623		10.07	
VLCSW-240229	G022903.D	200271		4.69		293193		5.44		246473		8.08		137497		10.07	
MS-ZZZZZZMS	G022910.D	216025		4.69		307699		5.44		251270		8.08		138046		10.07	
ZZZZZZMSD	G022911.D	214534		4.7		308628		5.44		252864		8.08		141075		10.07	

AREA UPPER LIMIT = +100% of STD IS Area
AREA LOWER LIMIT = - 50% of STD IS Area
RT - Retention IS - Internal StandardTime

RT UPPER LIMIT = + 0.50 of STD IS RT
RT LOWER LIMIT = - 0.50 of STD IS RT
CCV - Continuing Calibration Verification

- Area or RT Limit Flag
* - Value Outside Area or RT limits
H - Hour STD - Standard

Form 8 - Internal Standard Area and RT Summary

Client Bhate Environmental Associates, Inc.

Project LHAAP / Site 46

Workorder HS24021563

EPA SW8260

VOA9_460210		Pentafluorobenzene				1,4 Difluorobenzene				Chlorobenzene d5				1,4-Dichlorobenzene d4			
Sample ID	File ID	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
12-HOUR STD (CCV)	V022902.D	344539	#	4.82	#	499127	#	5.55	#	493143	#	8.19	#	287926	#	10.17	#
HS24021563-01	V022922.D	423724		4.82		586424		5.55		539054		8.19		289569		10.17	
HS24021563-03	V022923.D	439826		4.82		599869		5.55		542955		8.19		287886		10.17	
HS24021563-04	V022924.D	437840		4.82		608323		5.56		551674		8.19		296222		10.17	
HS24021563-05	V022925.D	439371		4.82		608403		5.55		541843		8.19		291997		10.17	
HS24021563-09	V022908.D	451505		4.82		614965		5.55		566589		8.19		304639		10.17	
VBLKW-240229	V022906.D	459301		4.82		632112		5.55		576504		8.19		315721		10.17	
VLCSDW-240229	V022904.D	345858		4.82		505320		5.55		466196		8.19		266082		10.17	
VLCSW-240229	V022903.D	348689		4.82		514835		5.55		487740		8.19		272546		10.17	

AREA UPPER LIMIT = +100% of STD IS Area
AREA LOWER LIMIT = - 50% of STD IS Area
RT - Retention IS - Internal StandardTime

RT UPPER LIMIT = + 0.50 of STD IS RT
RT LOWER LIMIT = - 0.50 of STD IS RT
CCV - Continuing Calibration Verification

- Area or RT Limit Flag
* - Value Outside Area or RT limits
H - Hour STD - Standard

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Analysis Run Log

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24021563

Client

Bhate Environmental Associates, Inc.

Project

LHAAP / Site 46

03/21/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

MSVOA10 -Logbook

Batch: 59306 **Analyst:** Tianna Smith

Date: 02-28-2024 **Reviewer:**

Method: 8260_s **Laboratory:** Houston

Comments:

#	Samp ID	Type	Analyzed	DF	Init Wt/Vol	Final Vol	File ID	Matrix	Status	pH
1	BFB	TUNE	02-28-2024 04:49 pm	1.00	0.00 mL	0.00 mL	F022801.D	Liquid	Y	NA
2	VSTD00.25	ICAL1	02-28-2024 05:09 pm	1.00	5.00 mL	0.00 mL	F022802.D	Liquid	Y	NA
3	VSTD00.5	ICAL2	02-28-2024 05:30 pm	1.00	5.00 mL	0.00 mL	F022803.D	Liquid	Y	NA
4	VSTD001	ICAL3	02-28-2024 05:51 pm	1.00	5.00 mL	0.00 mL	F022804.D	Liquid	Y	NA
5	VSTD002	ICAL4	02-28-2024 06:12 pm	1.00	5.00 mL	0.00 mL	F022805.D	Liquid	Y	NA
6	VSTD005	ICAL5	02-28-2024 06:33 pm	1.00	5.00 mL	0.00 mL	F022806.D	Liquid	Y	NA
7	VSTD020	ICAL6	02-28-2024 06:54 pm	1.00	5.00 mL	0.00 mL	F022807.D	Liquid	Y	NA
8	VSTD050	ICAL7	02-28-2024 07:15 pm	1.00	5.00 mL	0.00 mL	F022808.D	Liquid	Y	NA
9	VSTD100	ICAL8	02-28-2024 07:36 pm	1.00	5.00 mL	0.00 mL	F022809.D	Liquid	Y	NA
10	VSTD150	ICAL9	02-28-2024 07:57 pm	1.00	5.00 mL	0.00 mL	F022810.D	Liquid	Y	NA
11	VSTD200	ICAL	02-28-2024 08:18 pm	1.00	5.00 mL	0.00 mL	F022811.D	Liquid	Y	NA
12	BLK	SAMP	02-28-2024 08:39 pm	1.00	5.00 mL	0.00 mL	F022812.D	Liquid	Y	NA
13	ICV	ICV	02-28-2024 09:00 pm	1.00	5.00 mL	0.00 mL	F022813.D	Liquid	Y	NA
14	BLK	SAMP	02-28-2024 09:21 pm	1.00	5.00 mL	0.00 mL	F022814.D	Liquid	Y	NA

MSVOA10 -Logbook

Batch: 59307 **Analyst:** Tianna Smith

Date: 02-29-2024 **Reviewer:**

Method: 8260_s **Laboratory:** Houston

Comments:

#	Samp ID	Type	Analyzed	DF	Init Wt/Vol	Final Vol	File ID	Matrix	Status	pH
1	BFB	TUNE	02-29-2024 09:12 am	1.00	0.00 mL	0.00 mL	F022901.D	Liquid	Y	NA
2	VSTD050	CCV	02-29-2024 09:54 am	1.00	5.00 mL	0.00 mL	F022902.D	Liquid	Y	NA
3	VLCSW-240229	LCS	02-29-2024 10:15 am	1.00	5.00 mL	0.00 mL	F022903.D	Liquid	Y	NA
4	VLCSW-240229	LCS	02-29-2024 10:36 am	1.00	5.00 mL	0.00 mL	F022904.D	Liquid	Y	NA
5	VBLKM-240229	MBLK	02-29-2024 10:57 am	1.00	5.00 mL	0.00 mL	F022905.D	Liquid	Y	NA
6	VBLKW-240229	MBLK	02-29-2024 11:18 am	1.00	5.00 mL	0.00 mL	F022906.D	Liquid	Y	NA
7	HS24021563-02	SAMP	02-29-2024 11:46 am	1.00	5.00 mL	0.00 mL	F022907.D	Liquid	Y	NA
8	HS24021388-09	SAMP	02-29-2024 12:07 pm	10.00	5.00 mL	0.00 mL	F022908.D	Liquid	Y	NA
9	HS24021563-02MS	MS	02-29-2024 12:28 pm	1.00	5.00 mL	0.00 mL	F022909.D	Liquid	Y	NA
10	HS24021563-02MSD	MSD	02-29-2024 12:49 pm	1.00	5.00 mL	0.00 mL	F022910.D	Liquid	Y	NA
11	BLK	SAMP	02-29-2024 01:10 pm	1.00	5.00 mL	0.00 mL	F022911.D	Liquid	Y	NA
12	HS24021678-06	SAMP	02-29-2024 01:31 pm	1.00	5.00 mL	0.00 mL	F022912.D	Liquid	Y	NA
13	HS24021678-07	SAMP	02-29-2024 01:52 pm	1.00	5.00 mL	0.00 mL	F022913.D	Liquid	Y	NA
14	HS24021636-01	SAMP	02-29-2024 02:13 pm	1.00	5.00 mL	0.00 mL	F022914.D	Liquid	Y	NA
15	HS24021569-02	SAMP	02-29-2024 02:34 pm	1.00	5.00 mL	0.00 mL	F022915.D	Liquid	Y	NA
16	HS24021569-05	SAMP	02-29-2024 02:55 pm	1.00	5.00 mL	0.00 mL	F022916.D	Liquid	Y	NA
17	HS24021569-06	SAMP	02-29-2024 03:16 pm	1.00	5.00 mL	0.00 mL	F022917.D	Liquid	Y	NA
18	HS24021569-07	SAMP	02-29-2024 03:37 pm	1.00	5.00 mL	0.00 mL	F022918.D	Liquid	Y	NA
19	HS24021569-08	SAMP	02-29-2024 03:58 pm	1.00	5.00 mL	0.00 mL	F022919.D	Liquid	Y	NA
20	HS24021569-09	SAMP	02-29-2024 04:19 pm	1.00	5.00 mL	0.00 mL	F022920.D	Liquid	Y	NA
21	HS24021569-10	SAMP	02-29-2024 04:40 pm	1.00	5.00 mL	0.00 mL	F022921.D	Liquid	Y	NA
22	HS24021569-11	SAMP	02-29-2024 05:01 pm	1.00	5.00 mL	0.00 mL	F022922.D	Liquid	Y	NA
23	HS24021569-12	SAMP	02-29-2024 05:22 pm	1.00	5.00 mL	0.00 mL	F022923.D	Liquid	Y	NA
24	HS24021569-13	SAMP	02-29-2024 05:43 pm	1.00	5.00 mL	0.00 mL	F022924.D	Liquid	Y	NA
25	HS24021593-02	SAMP	02-29-2024 06:04 pm	1.00	5.00 mL	0.00 mL	F022925.D	Liquid	Y	NA
26	HS24021593-03	SAMP	02-29-2024 06:25 pm	1.00	5.00 mL	0.00 mL	F022926.D	Liquid	Y	NA
27	HS24021593-05	SAMP	02-29-2024 06:46 pm	1.00	5.00 mL	0.00 mL	F022927.D	Liquid	Y	NA
28	HS24021593-06	SAMP	02-29-2024 07:07 pm	1.00	5.00 mL	0.00 mL	F022928.D	Liquid	Y	NA
29	HS24021563-06	SAMP	02-29-2024 07:28 pm	1.00	5.00 mL	0.00 mL	F022929.D	Liquid	Y	NA
30	CCV-END	CCV	02-29-2024 07:49 pm	1.00	5.00 mL	0.00 mL	F022940.D	Liquid	Y	NA
31	BLK	SAMP	02-29-2024 08:10 pm	1.00	5.00 mL	0.00 mL	F022941.D	Liquid	Y	NA
32	BFB	TUNE	02-29-2024 08:31 pm	1.00	0.00 mL	0.00 mL	G022901.D	Liquid	Y	NA
33	VSTD050	CCV	02-29-2024 08:52 pm	1.00	5.00 mL	0.00 mL	G022902.D	Liquid	Y	NA
34	VLCSW-240229	LCS	02-29-2024 09:34 pm	1.00	5.00 mL	0.00 mL	G022903.D	Liquid	Y	NA
35	VLCSDW-240229	LCSD	02-29-2024 09:55 pm	1.00	5.00 mL	0.00 mL	G022904.D	Liquid	Y	NA
36	BLK	SAMP	02-29-2024 10:16 pm	1.00	5.00 mL	0.00 mL	G022905.D	Liquid	Y	NA
37	VBLKW-240229	MBLK	02-29-2024 10:37 pm	1.00	5.00 mL	0.00 mL	G022906.D	Liquid	Y	NA
38	HS24021563-07	SAMP	02-29-2024 10:58 pm	1.00	5.00 mL	0.00 mL	G022907.D	Liquid	Y	NA
39	HS24021563-08	SAMP	02-29-2024 11:19 pm	1.00	5.00 mL	0.00 mL	G022908.D	Liquid	Y	NA
40	HS24021593-04	SAMP	02-29-2024 11:40 pm	1.00	5.00 mL	0.00 mL	G022909.D	Liquid	Y	NA
41	HS24021593-04MS	MS	03-01-2024 12:01 am	1.00	5.00 mL	0.00 mL	G022910.D	Liquid	Y	NA

MSVOA10 -Logbook

#	Samp ID	Type	Analyzed	DF	Init Wt/Vol	Final Vol	File ID	Matrix	Status	pH
42	HS24021593-04MSD	MSD	03-01-2024 12:22 am	1.00	5.00 mL	0.00 mL	G022911.D	Liquid	Y	NA
43	HS24021637-02	SAMP	03-01-2024 12:43 am	1.00	5.00 mL	0.00 mL	G022912.D	Liquid	Y	NA
44	HS24021637-03	SAMP	03-01-2024 01:03 am	1.00	5.00 mL	0.00 mL	G022913.D	Liquid	Y	NA
45	HS24021637-04	SAMP	03-01-2024 01:24 am	1.00	5.00 mL	0.00 mL	G022914.D	Liquid	Y	NA
46	HS24021637-05	SAMP	03-01-2024 01:45 am	1.00	5.00 mL	0.00 mL	G022915.D	Liquid	Y	NA
47	HS24021637-06	SAMP	03-01-2024 02:06 am	1.00	5.00 mL	0.00 mL	G022916.D	Liquid	Y	NA
48	HS24021637-07	SAMP	03-01-2024 02:27 am	1.00	5.00 mL	0.00 mL	G022917.D	Liquid	Y	NA
49	HS24021637-08	SAMP	03-01-2024 02:48 am	1.00	5.00 mL	0.00 mL	G022918.D	Liquid	Y	NA
50	HS24021637-09	SAMP	03-01-2024 03:09 am	1.00	5.00 mL	0.00 mL	G022919.D	Liquid	Y	NA
51	HS24021637-10	SAMP	03-01-2024 03:30 am	1.00	5.00 mL	0.00 mL	G022920.D	Liquid	Y	NA
52	HS24021637-11	SAMP	03-01-2024 03:51 am	1.00	5.00 mL	0.00 mL	G022921.D	Liquid	Y	NA
53	HS24021637-12	SAMP	03-01-2024 04:12 am	2000.0	5.00 mL	0.00 mL	G022922.D	Liquid	Y	NA
54	HS24021637-13	SAMP	03-01-2024 04:33 am	1.00	5.00 mL	0.00 mL	G022923.D	Liquid	Y	NA
55	HS24021637-14	SAMP	03-01-2024 04:54 am	25.00	5.00 mL	0.00 mL	G022924.D	Liquid	Y	NA
56	HS24021637-15	SAMP	03-01-2024 05:15 am	100.0(	5.00 mL	0.00 mL	G022925.D	Liquid	Y	NA
57	HS24021637-16	SAMP	03-01-2024 05:36 am	25.00	5.00 mL	0.00 mL	G022926.D	Liquid	Y	NA
58	HS24021637-17	SAMP	03-01-2024 05:57 am	1.00	5.00 mL	0.00 mL	G022927.D	Liquid	Y	NA
59	HS24021637-18	SAMP	03-01-2024 06:18 am	1.00	5.00 mL	0.00 mL	G022928.D	Liquid	Y	NA
60	VSTD050	CCV	03-01-2024 06:39 am	1.00	5.00 mL	0.00 mL	G022940.D	Liquid	Y	NA
61	BLK	SAMP	03-01-2024 07:00 am	1.00	5.00 mL	0.00 mL	G022941.D	Liquid	Y	NA

MSVOA09 -Logbook

Batch: 59133 **Analyst:** Firat Tastan

Date: 02-27-2024 **Reviewer:**

Method: 8260 **Laboratory:** Houston

Comments:

#	Samp ID	Type	Analyzed	DF	Init Wt/Vol	Final Vol	File ID	Matrix	Status	pH
1	BFB	TUNE	02-27-2024 09:50 am	1.00	0.00 mL	0.00 mL	U022701.D	Liquid	Y	NA
2	VSTD00.25	ICAL1	02-27-2024 10:12 am	1.00	5.00 mL	0.00 mL	U022702.D	Liquid	Y	NA
3	VSTD00.5	ICAL2	02-27-2024 10:34 am	1.00	5.00 mL	0.00 mL	U022703.D	Liquid	Y	NA
4	VSTD001	ICAL3	02-27-2024 10:57 am	1.00	5.00 mL	0.00 mL	U022704.D	Liquid	Y	NA
5	VSTD002	ICAL4	02-27-2024 11:19 am	1.00	5.00 mL	0.00 mL	U022705.D	Liquid	Y	NA
6	VSTD005	ICAL5	02-27-2024 11:41 am	1.00	5.00 mL	0.00 mL	U022706.D	Liquid	Y	NA
7	VSTD020	ICAL6	02-27-2024 12:03 pm	1.00	5.00 mL	0.00 mL	U022707.D	Liquid	Y	NA
8	VSTD050	ICAL7	02-27-2024 12:25 pm	1.00	5.00 mL	0.00 mL	U022708.D	Liquid	Y	NA
9	VSTD100	ICAL8	02-27-2024 12:47 pm	1.00	5.00 mL	0.00 mL	U022709.D	Liquid	Y	NA
10	VSTD150	ICAL9	02-27-2024 01:10 pm	1.00	5.00 mL	0.00 mL	U022710.D	Liquid	Y	NA
11	VSTD200	ICAL	02-27-2024 01:32 pm	1.00	5.00 mL	0.00 mL	U022711.D	Liquid	Y	NA
12	BFB	TUNE	02-27-2024 01:54 pm	1.00	0.00 mL	0.00 mL	V022701.D	Liquid	Y	NA
13	ICV	ICV	02-27-2024 02:17 pm	1.00	5.00 mL	0.00 mL	U022713.D	Liquid	Y	NA
14	CCV	CCV	02-27-2024 02:39 pm	1.00	5.00 mL	0.00 mL	V022703.D	Liquid	Y	NA
15	VLCSW-240227	LCS	02-27-2024 03:46 pm	1.00	5.00 mL	0.00 mL	V022704.D	Liquid	Y	NA
16	VLCSDW-240227	LCSD	02-27-2024 04:08 pm	1.00	5.00 mL	0.00 mL	V022705.D	Liquid	Y	NA
17	BLK	SAMP	02-27-2024 04:30 pm	1.00	5.00 mL	0.00 mL	V022706.D	Liquid	Y	NA
18	VBLKW-240227	MBLK	02-27-2024 04:53 pm	1.00	5.00 mL	0.00 mL	V022707.D	Liquid	Y	NA
19	HS24021283-01	SAMP	02-27-2024 05:15 pm	1.00	5.00 mL	0.00 mL	V022708.D	Liquid	Y	NA
20	HS24021331-01	SAMP	02-27-2024 05:37 pm	1.00	5.00 mL	0.00 mL	V022709.D	Liquid	Y	NA
21	HS24021467-01	SAMP	02-27-2024 06:00 pm	1.00	5.00 mL	0.00 mL	V022710.D	Liquid	Y	NA
22	HS24021331-07	SAMP	02-27-2024 06:22 pm	20.00	5.00 mL	0.00 mL	V022711.D	Liquid	Y	NA
23	HS24021331-07MS	MS	02-27-2024 06:45 pm	20.00	5.00 mL	0.00 mL	V022712.D	Liquid	Y	NA
24	HS24021331-07MSD	MSD	02-27-2024 07:07 pm	20.00	5.00 mL	0.00 mL	V022713.D	Liquid	Y	NA

MSVOA09 -Logbook

Batch: 59134 **Analyst:** Firat Tastan

Date: 02-29-2024 **Reviewer:**

Method: 8260 **Laboratory:** Houston

Comments:

#	Samp ID	Type	Analyzed	DF	Init Wt/Vol	Final Vol	File ID	Matrix	Status	pH
1	BFB	TUNE	02-29-2024 10:04 am	1.00	0.00 mL	0.00 mL	U022901.D	Liquid	Y	NA
2	CCV	CCV	02-29-2024 10:48 am	1.00	5.00 mL	0.00 mL	U022902.D	Liquid	Y	NA
3	VLCSW-240229	LCS	02-29-2024 11:10 am	1.00	5.00 mL	0.00 mL	U022903.D	Liquid	Y	NA
4	BLK	SAMP	02-29-2024 11:33 am	1.00	5.00 mL	0.00 mL	U022904.D	Liquid	Y	NA
5	VBLKW-240229	MBLK	02-29-2024 11:55 am	1.00	5.00 mL	0.00 mL	U022905.D	Liquid	Y	NA
6	HS24021283-01	SAMP	02-29-2024 12:17 pm	1.00	5.00 mL	0.00 mL	U022906.D	Liquid	Y	NA
7	HS24021331-01	SAMP	02-29-2024 12:39 pm	1.00	5.00 mL	0.00 mL	U022907.D	Liquid	Y	NA
8	HS24021467-01	SAMP	02-29-2024 01:02 pm	1.00	5.00 mL	0.00 mL	U022908.D	Liquid	Y	NA
9	HS24021331-07	SAMP	02-29-2024 01:24 pm	20.00	5.00 mL	0.00 mL	U022909.D	Liquid	Y	NA
10	HS24021331-07MS	MS	02-29-2024 01:46 pm	20.00	5.00 mL	0.00 mL	U022910.D	Liquid	Y	NA
11	HS24021331-07MSD	MSD	02-29-2024 02:09 pm	20.00	5.00 mL	0.00 mL	U022911.D	Liquid	Y	NA
12	HS24021467-02	SAMP	02-29-2024 02:31 pm	20.00	5.00 mL	0.00 mL	U022912.D	Liquid	Y	NA
13	HS24021283-02	SAMP	02-29-2024 02:53 pm	200.0(	5.00 mL	0.00 mL	U022913.D	Liquid	Y	NA
14	HS24021283-03	SAMP	02-29-2024 03:15 pm	100.0(	5.00 mL	0.00 mL	U022914.D	Liquid	Y	NA
15	HS24021283-04	SAMP	02-29-2024 03:38 pm	1000.0	5.00 mL	0.00 mL	U022915.D	Liquid	Y	NA
16	CCV-END	CCV	02-29-2024 04:00 pm	1.00	5.00 mL	0.00 mL	U022916.D	Liquid	Y	NA
17	BLK	SAMP	02-29-2024 04:22 pm	1.00	5.00 mL	0.00 mL	U022917.D	Liquid	Y	NA
18	HS24021283-05	SAMP	02-29-2024 04:44 pm	1000.0	5.00 mL	0.00 mL	U022918.D	Liquid	Y	NA
19	HS24021283-06	SAMP	02-29-2024 05:06 pm	50.00	5.00 mL	0.00 mL	U022919.D	Liquid	Y	NA
20	HS24021283-07	SAMP	02-29-2024 05:29 pm	5.00	5.00 mL	0.00 mL	U022920.D	Liquid	Y	NA
21	HS24021145-02	SAMP	02-29-2024 05:51 pm	100.0(	5.00 mL	0.00 mL	U022921.D	Liquid	Y	NA
22	HS24021331-02	SAMP	02-29-2024 06:13 pm	500.0(	5.00 mL	0.00 mL	U022922.D	Liquid	Y	NA
23	HS24021331-03	SAMP	02-29-2024 06:35 pm	250.0(	5.00 mL	0.00 mL	U022923.D	Liquid	Y	NA
24	HS24021331-04	SAMP	02-29-2024 06:58 pm	500.0(	5.00 mL	0.00 mL	U022924.D	Liquid	Y	NA
25	HS24021331-05	SAMP	02-29-2024 07:20 pm	10.00	5.00 mL	0.00 mL	U022925.D	Liquid	Y	NA
26	HS24021331-06	SAMP	02-29-2024 07:42 pm	20.00	5.00 mL	0.00 mL	U022926.D	Liquid	Y	NA
27	HS24021331-08	SAMP	02-29-2024 08:04 pm	250.0(	5.00 mL	0.00 mL	U022927.D	Liquid	Y	NA
28	HS24021331-09	SAMP	02-29-2024 08:27 pm	500.0(	5.00 mL	0.00 mL	U022928.D	Liquid	Y	NA
29	HS24021331-10	SAMP	02-29-2024 08:49 pm	500.0(	5.00 mL	0.00 mL	U022929.D	Liquid	Y	NA
30	CCV-END	CCV	02-29-2024 09:11 pm	1.00	5.00 mL	0.00 mL	U022930.D	Liquid	Y	NA
31	BFB	TUNE	02-29-2024 09:33 pm	1.00	0.00 mL	0.00 mL	V022901.D	Liquid	Y	NA
32	CCV	CCV	02-29-2024 10:17 pm	1.00	5.00 mL	0.00 mL	V022902.D	Liquid	Y	NA
33	VLCSW-240229	LCS	02-29-2024 10:40 pm	1.00	5.00 mL	0.00 mL	V022903.D	Liquid	Y	NA
34	VLCSDW-240229	LCSD	02-29-2024 11:02 pm	1.00	5.00 mL	0.00 mL	V022904.D	Liquid	Y	NA
35	BLK	SAMP	02-29-2024 11:24 pm	1.00	5.00 mL	0.00 mL	V022905.D	Liquid	Y	NA
36	VBLKW-240229	MBLK	02-29-2024 11:46 pm	1.00	5.00 mL	0.00 mL	V022906.D	Liquid	Y	NA
37	HS24021637-01	SAMP	03-01-2024 12:09 am	1.00	5.00 mL	0.00 mL	V022907.D	Liquid	Y	NA
38	HS24021563-09	SAMP	03-01-2024 12:31 am	1.00	5.00 mL	0.00 mL	V022908.D	Liquid	Y	NA
39	HS24021593-01	SAMP	03-01-2024 12:53 am	1.00	5.00 mL	0.00 mL	V022909.D	Liquid	Y	NA
40	HS24021569-01	SAMP	03-01-2024 01:15 am	1.00	5.00 mL	0.00 mL	V022910.D	Liquid	Y	NA
41	HS24021475-11	SAMP	03-01-2024 01:38 am	1.00	5.00 mL	0.00 mL	V022911.D	Liquid	Y	NA

MSVOA09 -Logbook

#	Samp ID	Type	Analyzed	DF	Init Wt/Vol	Final Vol	File ID	Matrix	Status	pH
42	HS24021475-01	SAMP	03-01-2024 02:00 am	1.00	5.00 mL	0.00 mL	V022912.D	Liquid	Y	NA
43	HS24021475-02	SAMP	03-01-2024 02:22 am	1.00	5.00 mL	0.00 mL	V022913.D	Liquid	Y	NA
44	HS24021475-03	SAMP	03-01-2024 02:44 am	1.00	5.00 mL	0.00 mL	V022914.D	Liquid	Y	NA
45	HS24021475-04	SAMP	03-01-2024 03:07 am	1.00	5.00 mL	0.00 mL	V022915.D	Liquid	Y	NA
46	HS24021475-05	SAMP	03-01-2024 03:29 am	1.00	5.00 mL	0.00 mL	V022916.D	Liquid	Y	NA
47	HS24021475-06	SAMP	03-01-2024 03:51 am	1.00	5.00 mL	0.00 mL	V022917.D	Liquid	Y	NA
48	HS24021475-07	SAMP	03-01-2024 04:14 am	1.00	5.00 mL	0.00 mL	V022918.D	Liquid	Y	NA
49	HS24021475-08	SAMP	03-01-2024 04:36 am	1.00	5.00 mL	0.00 mL	V022919.D	Liquid	Y	NA
50	HS24021475-09	SAMP	03-01-2024 04:58 am	1.00	5.00 mL	0.00 mL	V022920.D	Liquid	Y	NA
51	HS24021475-10	SAMP	03-01-2024 05:20 am	1.00	5.00 mL	0.00 mL	V022921.D	Liquid	Y	NA
52	HS24021563-01	SAMP	03-01-2024 05:43 am	1.00	5.00 mL	0.00 mL	V022922.D	Liquid	Y	NA
53	HS24021563-03	SAMP	03-01-2024 06:05 am	1.00	5.00 mL	0.00 mL	V022923.D	Liquid	Y	NA
54	HS24021563-04	SAMP	03-01-2024 06:27 am	1.00	5.00 mL	0.00 mL	V022924.D	Liquid	Y	NA
55	HS24021563-05	SAMP	03-01-2024 06:49 am	1.00	5.00 mL	0.00 mL	V022925.D	Liquid	Y	NA
56	HS24021467-03	SAMP	03-01-2024 07:12 am	5.00	5.00 mL	0.00 mL	V022926.D	Liquid	Y	NA
57	CCV-END	CCV	03-01-2024 07:34 am	1.00	5.00 mL	0.00 mL	V022927.D	Liquid	Y	NA

right solutions.
right partner.

RawData

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24021563

Client

Bhate Environmental Associates, Inc.

Project

LHAAP / Site 46

03/21/2024

ALS Environmental–Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

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Data File: \\nahstws005\Target\chem\voa10.i\G240228.b\F022801.D Page 1
Report Date: 29-Feb-2024 08:41

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa10.i\G240228.b\F022801.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 28-FEB-2024 16:49
Operator : FT Inst ID: voa10.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V10;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa10.i\G240228.b\bfb.m
Meth Date : 26-Dec-2023 06:28 donna.brou Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAHSTW7066

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	2.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/l)		
RT	EXP RT	REL RT	MASS	RESPONSE			TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
9.096	9.096	(0.000)	95	78096			0.00- 100.00	100.00
9.096	9.096	(0.000)	50	17392			15.00- 40.00	22.27
9.096	9.096	(0.000)	75	40296			30.00- 60.00	51.60
9.096	9.096	(0.000)	96	5240			5.00- 9.00	6.71
9.096	9.096	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
9.096	9.096	(0.000)	174	60416			50.00- 0.00	77.36
9.096	9.096	(0.000)	175	4843			5.00- 9.00	8.02
9.096	9.096	(0.000)	176	60416			95.00- 101.00	100.00
9.096	9.096	(0.000)	177	4105			5.00- 9.00	6.79

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	22.27
75	30.00 - 60.00% of mass 95	51.60
96	5.00 - 9.00% of mass 95	6.71
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	77.36
175	5.00 - 9.00% of mass 174	6.20 (8.02)
176	95.00 - 101.00% of mass 174	77.36 (100.00)
177	5.00 - 9.00% of mass 176	5.26 (6.79)

Data File: F022801.D
Spectrum: Scan 2268 (9.09)
Location of Maximum: 95.10
Number of points: 61

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1152	60.00	980	79.00	1992	116.80	440
37.10	4978	61.00	3838	79.90	583	118.00	283
38.10	4414	62.10	4297	80.90	1756	118.90	544
39.10	1702	63.10	2662	81.90	399	127.80	335
40.00	405	64.00	323	87.00	3371	130.00	288
44.10	697	67.00	336	88.00	4016	141.00	577
45.10	673	68.10	8866	90.90	358	142.90	777
47.00	1285	69.10	7832	92.00	2314	156.80	156
48.00	629	70.10	917	93.00	3351	174.00	60416
49.00	2835	72.00	710	94.10	8998	175.00	4843
50.10	17392	73.10	3095	95.10	78096	176.00	60416
51.10	4906	74.10	13203	96.10	5240	177.00	4105
52.10	244	75.10	40296	97.00	176	178.00	170
55.10	297	76.10	3606	104.00	308		
56.10	1216	77.00	581	105.90	262		
57.00	2006	77.80	364	116.00	179		

Data File: \\NAHSTWS005\Target\chem\voa10.i\g240228.b\f022801.d Page 1

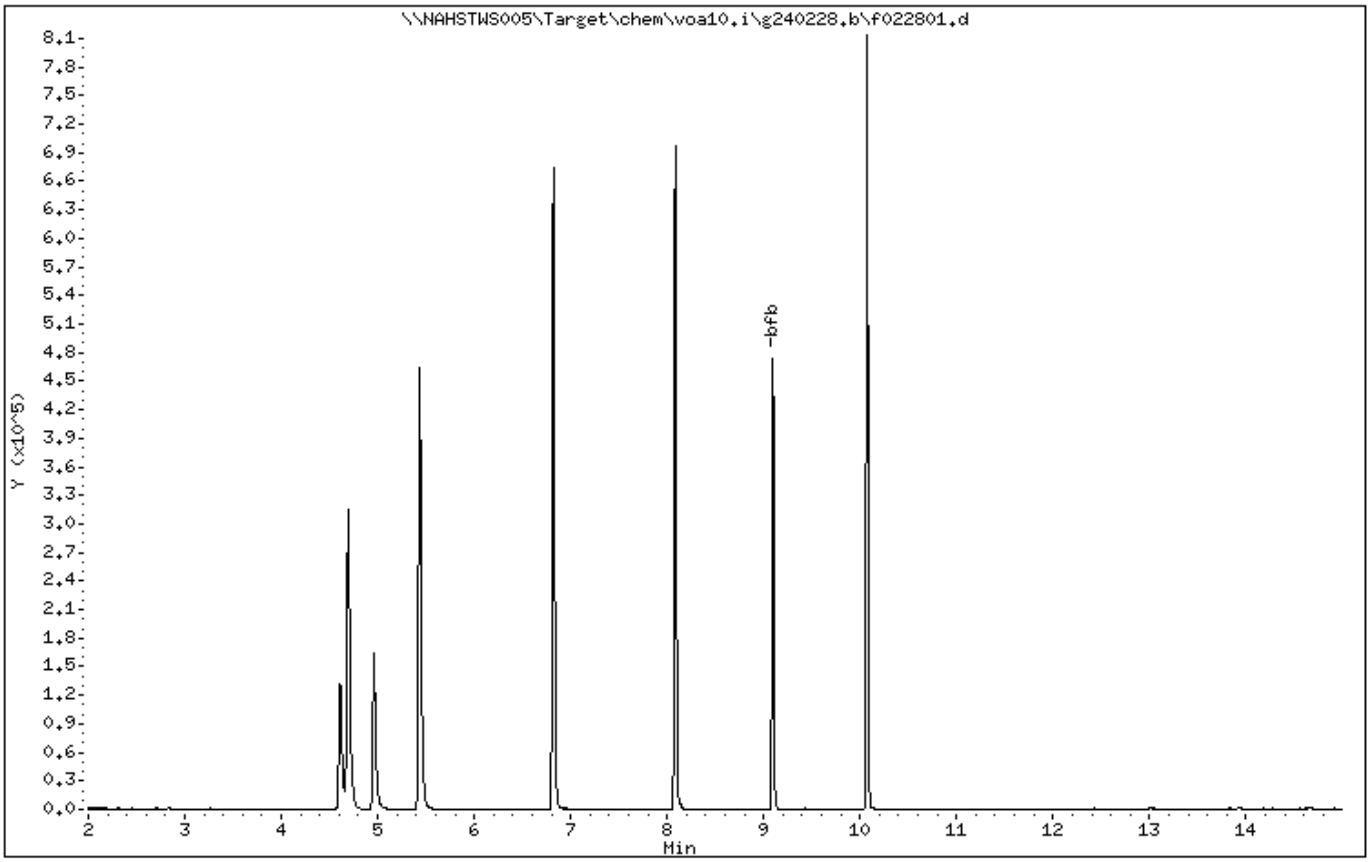
Date : 28-FEB-2024 16:49

Client ID: BFB Instrument: voa10.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: FT

Column phase: DB624 Column diameter: 0.25



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Inj Date : 28-FEB-2024 16:49
InstruID : voa10.i
LabSampID : BFB

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa10.i\G240228.b\F022802.D Page 1
Report Date: 11-Mar-2024 13:59

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa10.i\G240228.b\F022802.D
Lab Smp Id: VSTD00.25 Client Smp ID: VSTD00.25
Inj Date : 28-FEB-2024 17:09
Operator : FT Inst ID: voa10.i
Smp Info : VSTD00.25;VSTD00.25;1;1;;
Misc Info : V10;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa10.i\G240228.b\8260W.m
Meth Date : 11-Mar-2024 13:59 voa10.i Quant Type: ISTD
Cal Date : 28-FEB-2024 18:12 Cal File: F022805.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 01_STD_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

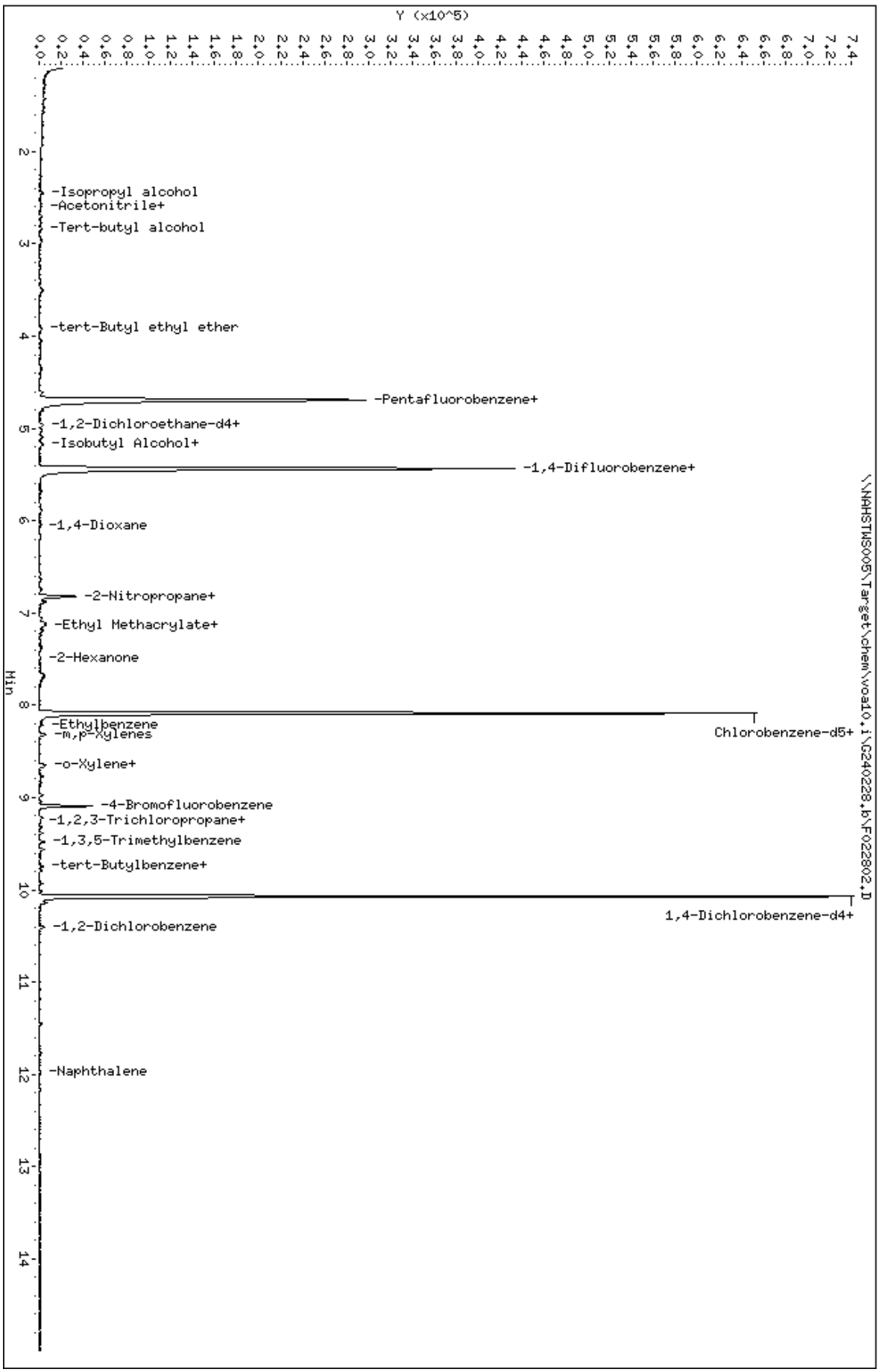
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Pentafluorobenzene	168	4.691	4.691	(1.000)	233817	50.0000	
	12 Isobutyl Alcohol	43	5.171	5.171	(1.102)	1726	5.00000	5.35(Ta)
	13 Acetonitrile	39	2.592	2.592	(0.553)	773	2.50000	16.57
	14 Allyl Chloride	41	2.573	2.573	(0.549)	1004	0.25000	(a)
$	30 Dibromofluoromethane	113	4.612	4.612	(0.983)	1855	0.25000	1.03(a)
	33 1,2-Dichloroethane	62	4.691	4.691	(0.863)	925	0.25000	0.30(a)
	34 Carbon Tetrachloride	117	4.691	4.691	(0.863)	20530	0.25000	8.43
$	35 1,2-Dichloroethane-d4	65	4.965	4.965	(1.058)	2914	0.25000	0.84(Ta)
*	36 1,4-Difluorobenzene	114	5.437	5.437	(1.000)	348923	50.0000	
	37 Benzene	78	5.017	5.017	(0.923)	2460	0.25000	0.26(Ta)
	42 1,2-Dichloropropane	63	5.437	5.437	(1.000)	82163	0.25000	32.77
	43 2-Nitropropane	43	6.745	6.745	(1.438)	1354	0.25000	4.00(Ta)
*	47 Chlorobenzene-d5	117	8.083	8.083	(1.000)	299966	50.0000	
$	48 Toluene-d8	98	6.820	6.820	(0.844)	19688	0.25000	1.40(a)
	49 Ethyl Methacrylate	69	7.105	7.105	(1.307)	1060	0.25000	(a)
	50 Toluene	91	6.876	6.876	(0.851)	2507	0.25000	0.27(a)
	52 2-Hexanone	43	7.484	7.484	(0.926)	1092	0.50000	0.67(Ta)
	58 1-Chlorohexane	55	8.083	8.083	(1.487)	3630	0.25000	0.97(a)
	61 Ethylbenzene	106	8.218	8.218	(1.017)	647	0.25000	0.23(a)
	62 m,p-Xylenes	106	8.316	8.316	(1.029)	1640	0.50000	0.46(a)

	63 o-Xylene	106	8.653	8.653 (1.070)	821	0.25000	0.24(a)
$	69 4-Bromofluorobenzene	95	9.096	9.096 (1.125)	12929	0.25000	2.23(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	70 1,4-Dichlorobenzene-d4	152	10.070	10.070	(1.000)	161341	50.0000	
	71 1,2,3-Trichloropropane	75	9.257	9.257	(0.919)	612	0.25000	1.20(a)
	73 n-Propylbenzene	91	9.317	9.317	(0.925)	2210	0.25000	0.21(a)
	75 1,3,5-Trimethylbenzene	105	9.474	9.474	(0.941)	1801	0.25000	0.25(a)
	78 tert-Butylbenzene	119	9.744	9.744	(0.968)	1434	0.25000	0.24(Ta)
	79 1,2,4-Trimethylbenzene	105	9.785	9.785	(0.972)	1668	0.25000	0.23(a)
	83 1,3-Dichlorobenzene	146	10.022	10.022	(0.995)	981	0.25000	0.22(a)
	84 1,4-Dichlorobenzene	146	10.093	10.093	(1.002)	1193	0.25000	0.26(a)
	88 1,2-Dichlorobenzene	146	10.404	10.404	(1.033)	1010	0.25000	0.23(a)
	92 Naphthalene	128	11.967	11.967	(1.188)	1232	0.25000	1.11(a)
	135 1,4-Dioxane	88	6.052	6.052	(1.290)	132	5.00000	(aM)
	141 Cyclohexane	56	4.691	4.691	(1.000)	5735	0.25000	0.08(a)
	148 Tert-butyl alcohol	59	2.835	2.835	(0.604)	2126	5.00000	40.37
	149 Isopropyl alcohol	45	2.449	2.449	(0.522)	1349	5.00000	18.91(T)
	151 4-Methyl-2-pentanol	45	7.109	7.109	(1.307)	3059	5.00000	32.79
	166 1,2,3-Trimethylbenzene	105	10.141	10.141	(1.007)	3038	0.25000	(a)
	174 tert-Amyl methyl ether	73	5.167	5.167	(1.101)	1898	0.25000	0.32(Ta)
	175 tert-Butyl ethyl ether	59	3.915	3.915	(0.835)	2029	0.25000	0.30(Ta)
	162 Butyl acrylate	55	8.638	8.638	(1.069)	2155	0.25000	2.57(a)
M	95 Xylenes (total)	106				2461	0.75000	(a)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa10,i\G240228,b\F022802.D
Date : 28-FEB-2024 17:09
Client ID: VSTD00,25
Sample Info: VSTD00,25;VSTD00,25;1;1;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa10,i
Operator: FT
Column diameter: 0.18

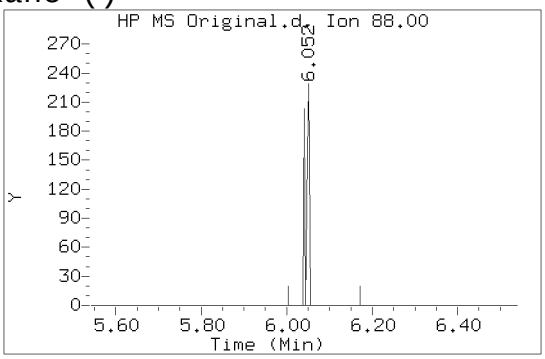
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Inj Date : 28-FEB-2024 17:09
InstruID : voa10.i
LabSampID : VSTD00.25

1,4-Dioxane ()

Reason Code:

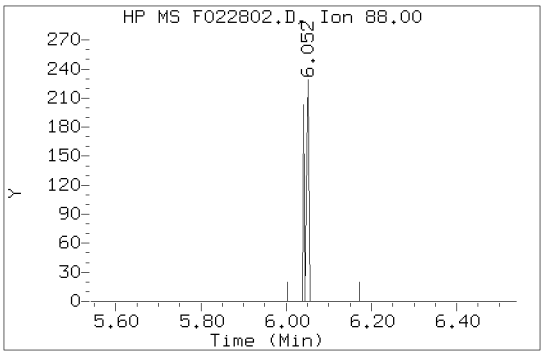
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AREA
132
HEIGHT
229
11-Mar-2024
13:57
linh
pham



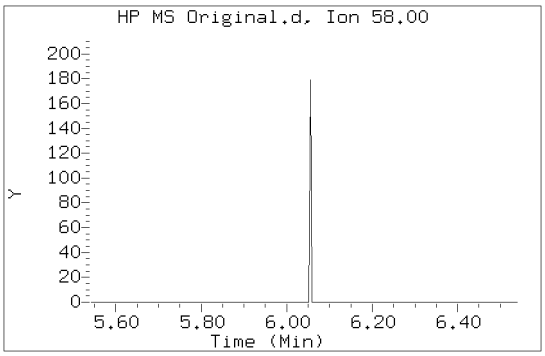
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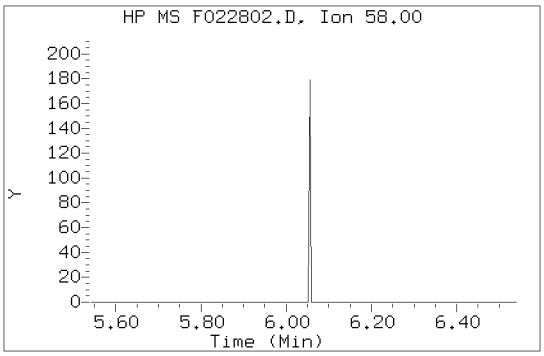
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AFTER

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HEIGHT
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11-Mar-2024
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pham



Data File: \\NAHSTWS005\Target\chem\voa10.i\G240228.b\F022803.D Page 1
Report Date: 11-Mar-2024 13:59

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Data file : \\NAHSTWS005\Target\chem\voa10.i\G240228.b\F022803.D
Lab Smp Id: VSTD00.5 Client Smp ID: VSTD00.5
Inj Date : 28-FEB-2024 17:30
Operator : FT Inst ID: voa10.i
Smp Info : VSTD00.5;VSTD00.5;1;2;;
Misc Info : V10;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa10.i\G240228.b\8260W.m
Meth Date : 11-Mar-2024 13:59 voa10.i Quant Type: ISTD
Cal Date : 28-FEB-2024 17:09 Cal File: F022802.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 01_STD_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.695	4.695	(1.000)	232699	50.0000	
2 Dichlorodifluoromethane	85	1.152	1.152	(0.246)	1181	0.50000	0.58(aM)
3 Chloromethane	50	1.276	1.276	(0.272)	2675	0.50000	0.63(a)
4 Propionitrile	54	4.163	4.163	(0.887)	1618	5.00000	6.00(aM)
5 Vinyl Chloride	62	1.355	1.355	(0.289)	1533	0.50000	0.55(a)
6 Bromomethane	94	1.583	1.583	(0.337)	688	0.50000	(a)
7 Chloroethane	64	1.666	1.666	(0.355)	933	0.50000	0.56(aM)
8 Trichlorofluoromethane	101	1.850	1.850	(0.394)	1415	0.50000	0.51(a)
9 Acrolein	56	3.169	3.169	(0.675)	654	1.00000	0.93(a)
10 Acetone	43	2.318	2.318	(0.494)	1738	1.00000	2.03(aM)
11 1,1-Dichloroethene	96	2.269	2.269	(0.483)	939	0.50000	0.56(a)
12 Isobutyl Alcohol	43	5.160	5.160	(1.099)	3427	10.0000	10.68(Ta)
13 Acetonitrile	39	2.592	2.592	(0.552)	1868	5.00000	19.90
14 Allyl Chloride	41	2.584	2.584	(0.550)	4004	0.50000	(a)
15 Iodomethane	142	2.397	2.397	(0.511)	1117	1.00000	4.36(Ta)
16 Acrylonitrile	53	2.925	2.925	(0.623)	528	1.00000	(aM)
17 Methylene Chloride	84	2.704	2.704	(0.576)	1944	0.50000	0.58(a)
18 Methyl tert-butyl ether	73	2.982	2.982	(0.635)	2771	0.50000	0.49(a)
19 Carbon Disulfide	76	2.449	2.449	(0.522)	7717	1.00000	2.87(aM)
20 trans-1,2-Dichloroethene	96	2.955	2.955	(0.630)	1053	0.50000	0.53(a)

21 Vinyl Acetate	43	3.488	3.488 (0.743)	4994	1.00000	1.05(aM)
22 1,1-Dichloroethane	63	3.394	3.394 (0.723)	2412	0.50000	0.59(aM)

Data File: \\NAHSTWS005\Target\chem\voa10.i\G240228.b\F022803.D Page 2
Report Date: 11-Mar-2024 13:59

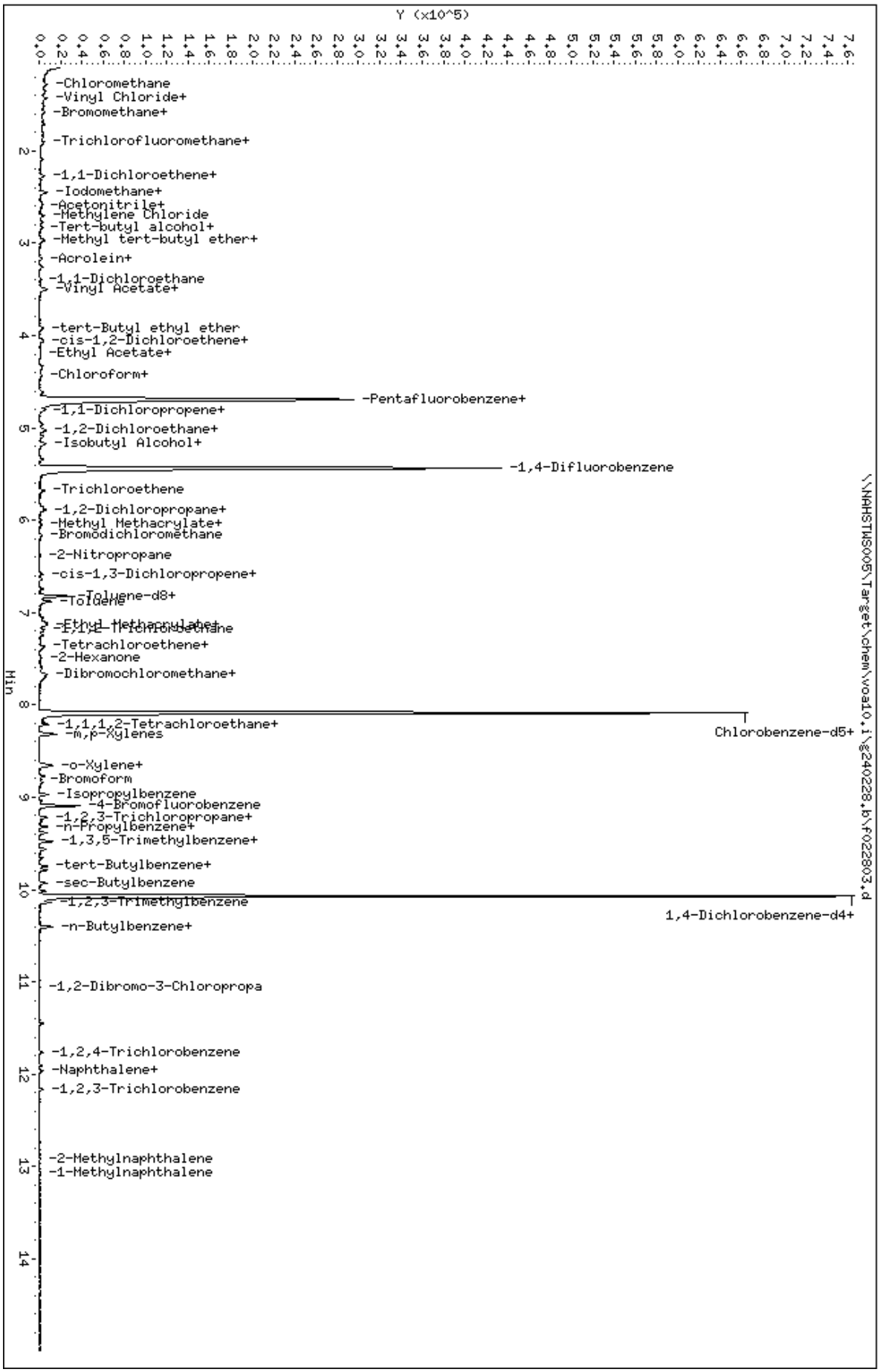
			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
	24	2-Butanone	43	4.106	4.106	(0.875)	1084	1.00000	3.02(aM)
	25	Methacrylonitrile	41	4.050	4.050	(0.863)	1403	0.50000	(aM)
	26	2,2-Dichloropropane	77	4.050	4.050	(0.863)	1477	0.50000	0.53(aM)
	27	cis-1,2-Dichloroethene	96	4.054	4.054	(0.863)	1237	0.50000	0.57(a)
	28	Chloroform	83	4.425	4.425	(0.943)	2581	0.50000	(aM)
	29	Bromochloromethane	128	4.331	4.331	(0.923)	481	0.50000	0.54(aM)
$	30	Dibromofluoromethane	113	4.612	4.612	(0.982)	1910	0.50000	1.07(a)
	31	1,1,1-Trichloroethane	97	4.631	4.631	(0.986)	1453	0.50000	0.49(a)
	32	1,1-Dichloropropene	75	4.811	4.811	(0.885)	1735	0.50000	0.56(a)
	33	1,2-Dichloroethane	62	5.043	5.043	(0.928)	1748	0.50000	0.57(a)
	34	Carbon Tetrachloride	117	4.800	4.800	(0.883)	1660	0.50000	0.11(a)
$	35	1,2-Dichloroethane-d4	65	4.965	4.965	(1.057)	2576	0.50000	0.72(Ta)
*	36	1,4-Difluorobenzene	114	5.437	5.437	(1.000)	352415	50.0000	
	37	Benzene	78	5.017	5.017	(0.923)	5916	0.50000	0.63(a)
	38	Trichloroethene	130	5.677	5.677	(1.044)	1254	0.50000	0.59(a)
	39	Bromodichloromethane	83	6.157	6.157	(1.132)	1621	0.50000	0.58(aM)
	40	Methyl Methacrylate	41	6.048	6.048	(1.288)	1468	0.50000	0.62(aM)
	42	1,2-Dichloropropane	63	5.887	5.887	(1.083)	1447	0.50000	0.57(a)
	43	2-Nitropropane	43	6.378	6.378	(1.358)	146	0.50000	1.14(aM)
	44	Dibromomethane	93	5.996	5.996	(1.103)	543	0.50000	0.48(aM)
	45	4-Methyl-2-Pentanone	43	6.745	6.745	(0.834)	2461	1.00000	2.60(aM)
	46	cis-1,3-Dichloropropene	75	6.584	6.584	(1.211)	1697	0.50000	0.53(aM)
*	47	Chlorobenzene-d5	117	8.084	8.084	(1.000)	303686	50.0000	
$	48	Toluene-d8	98	6.820	6.820	(0.844)	16264	0.50000	0.93(a)
	49	Ethyl Methacrylate	69	7.109	7.109	(1.307)	1743	0.50000	0.10(a)
	50	Toluene	91	6.884	6.884	(0.852)	5469	0.50000	0.58(a)
	51	trans-1,3-Dichloropropene	75	7.083	7.083	(1.303)	1114	0.50000	0.45(aM)
	52	2-Hexanone	43	7.484	7.484	(0.926)	2008	1.00000	1.23(a)
	53	1,1,2-Trichloroethane	83	7.248	7.248	(0.897)	902	0.50000	0.56(a)
	54	1,3-Dichloropropane	76	7.390	7.390	(0.914)	2009	0.50000	0.57(aM)
	55	Dibromochloromethane	129	7.578	7.578	(0.937)	802	0.50000	0.42(a)
	56	Tetrachloroethene	164	7.368	7.368	(0.911)	848	0.50000	0.51(a)
	57	1,2-Dibromoethane	107	7.675	7.675	(0.949)	951	0.50000	0.54(a)
	58	1-Chlorohexane	55	8.087	8.087	(1.487)	4786	0.50000	1.51(a)
	59	Chlorobenzene	112	8.110	8.110	(1.003)	3152	0.50000	0.57(a)
	60	1,1,1,2-Tetrachloroethane	131	8.185	8.185	(1.013)	1006	0.50000	0.52(a)
	61	Ethylbenzene	106	8.215	8.215	(1.016)	1382	0.50000	0.49(a)
	62	m,p-Xylenes	106	8.316	8.316	(1.029)	3942	1.00000	1.10(a)
	63	o-Xylene	106	8.650	8.650	(1.070)	1901	0.50000	0.55(a)
	64	Styrene	104	8.668	8.668	(1.072)	2391	0.50000	0.42(a)
	66	Bromoform	173	8.811	8.811	(1.090)	567	0.50000	0.44(aM)
	67	Isopropylbenzene	105	8.972	8.972	(1.110)	4680	0.50000	0.53(a)
	68	1,1,2,2-Tetrachloroethane	83	9.216	9.216	(0.915)	1489	0.50000	0.60(aM)
$	69	4-Bromofluorobenzene	95	9.096	9.096	(1.125)	10566	0.50000	1.30(a)
*	70	1,4-Dichlorobenzene-d4	152	10.070	10.070	(1.000)	161895	50.0000	
	71	1,2,3-Trichloropropane	75	9.253	9.253	(0.919)	1210	0.50000	1.38(a)
	72	trans-1,4-Dichloro-2-butene	53	9.279	9.279	(1.148)	228	0.50000	0.37(aM)
	73	n-Propylbenzene	91	9.324	9.324	(0.926)	5508	0.50000	0.54(a)
	74	Bromobenzene	156	9.219	9.219	(0.916)	1384	0.50000	0.58(a)
	75	1,3,5-Trimethylbenzene	105	9.471	9.471	(0.940)	3610	0.50000	0.51(a)
	76	2-Chlorotoluene	91	9.384	9.384	(0.932)	3683	0.50000	0.57(a)
	77	4-Chlorotoluene	91	9.478	9.478	(0.941)	3965	0.50000	0.54(a)

78	tert-Butylbenzene	119	9.744	9.744 (0.968)	3276	0.50000	0.56(a)
79	1,2,4-Trimethylbenzene	105	9.785	9.785 (0.972)	3590	0.50000	0.50(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	81 sec-Butylbenzene	105	9.932	9.932	(0.986)	4348	0.50000	0.54(a)
	82 p-Isopropyltoluene	119	10.059	10.059	(0.999)	3392	0.50000	0.49(a)
	83 1,3-Dichlorobenzene	146	10.014	10.014	(0.994)	2249	0.50000	0.52(a)
	84 1,4-Dichlorobenzene	146	10.089	10.089	(1.002)	2721	0.50000	0.59(a)
	87 n-Butylbenzene	91	10.400	10.400	(1.033)	3178	0.50000	0.48(a)
	88 1,2-Dichlorobenzene	146	10.404	10.404	(1.033)	2402	0.50000	0.56(a)
	89 1,2-Dibromo-3-Chloropropane	155	11.064	11.064	(1.099)	70	0.50000	0.89(aM)
	90 1,2,4-Trichlorobenzene	180	11.765	11.765	(1.168)	1330	0.50000	0.67(aM)
	91 Hexachlorobutadiene	225	11.903	11.903	(1.182)	710	0.50000	1.41(aM)
	92 Naphthalene	128	11.963	11.963	(1.188)	2665	0.50000	1.30(a)
	93 1,2,3-Trichlorobenzene	180	12.162	12.162	(1.208)	1193	0.50000	1.20(aM)
	135 1,4-Dioxane	88	6.048	6.048	(1.288)	164	10.0000	(aM)
	130 Ethyl Acetate	43	4.196	4.196	(0.894)	1451	0.50000	0.60(aM)
	136 n-Hexane	57	3.263	3.263	(0.695)	1089	0.50000	0.44(a)
	138 Freon TF	101	2.269	2.269	(0.483)	905	0.50000	0.53(a)
	139 Diethyl ether	59	2.832	2.832	(0.603)	2549	0.50000	0.85(TaM)
	141 Cyclohexane	56	4.687	4.687	(0.998)	6876	0.50000	0.43(a)
	142 Tetrahydrofuran	42	4.414	4.414	(0.940)	310	1.00000	0.96(aM)
	146 Methyl Acetate	43	2.614	2.614	(0.557)	1739	0.50000	0.61(aM)
	147 Methylcyclohexane	55	5.853	5.853	(1.077)	1622	0.50000	0.47(a)
	148 Tert-butyl alcohol	59	2.832	2.832	(0.603)	2397	10.0000	42.12
	149 Isopropyl alcohol	45	2.449	2.449	(0.522)	1570	10.0000	21.35(T)
	151 4-Methyl-2-pentanol	45	7.116	7.116	(1.309)	9137	10.0000	43.51
	156 Diisopropyl ether	45	3.507	3.507	(0.747)	4662	0.50000	0.51(aM)
	158 Dichlorofluoromethane	67	1.812	1.812	(0.386)	1672	0.50000	0.51(M)
	166 1,2,3-Trimethylbenzene	105	10.142	10.142	(1.007)	4498	0.50000	(a)
	160 2-Methylnaphthalene	142	12.919	12.919	(1.283)	546	0.50000	2.43(aM)
	180 1-Methylnaphthalene	142	13.066	13.066	(1.297)	766	0.50000	1.92(aM)
	174 tert-Amyl methyl ether	73	5.171	5.171	(1.101)	2966	0.50000	0.50(Ta)
	175 tert-Butyl ethyl ether	59	3.919	3.919	(0.835)	3288	0.50000	0.49(a)
	132 n-Butanol	56	5.864	5.864	(1.249)	461	10.0000	8.46(aM)
	140 1,3-Butadiene	54	1.374	1.374	(0.293)	439	0.50000	0.51(aM)
	189 n-Butyl acetate	43	7.611	7.611	(0.942)	1627	0.50000	1.32(aM)
	86 Benzyl Chloride	91	10.400	10.400	(1.287)	3177	0.50000	0.47(aM)
	182 Epichlorohydrin	57	6.509	6.509	(1.197)	71	2.00000	8.84(M)
	150 Allyl alcohol	57	3.492	3.492	(0.744)	83	10.0000	31.33(M)
	162 Butyl acrylate	55	8.642	8.642	(1.069)	2719	0.50000	2.67(a)
	194 Acetaldehyde	44	1.434	1.434	(0.305)	3565	2.00000	(aM)
	131 Methyl Acrylate	55	4.241	4.241	(0.903)	890	0.50000	0.46(aM)
	133 Ethyl Acrylate	55	5.827	5.827	(1.241)	1284	0.50000	0.51(aM)
M	94 1,2-Dichloroethylene (total)	96				2290	1.00000	(a)
M	95 Xylenes (total)	106				5843	1.50000	(a)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



Data File: \\NAHSTMS005\Target\chem\voa10.i\g240228.b\f022803.d
Date : 28-FEB-2024 17:30
Client ID: VSTD00.5
Sample Info: VSTD00.5;VSTD00.5;1;2;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa10.i
Operator: FT
Column diameter: 0.18

\\NAHSTMS005\Target\chem\voa10.i\g240228.b\f022803.d

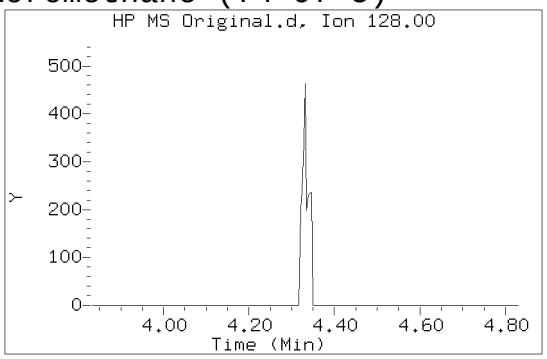
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Inj Date : 28-FEB-2024 17:30
InstruID : voa10.i
LabSampID : VSTD00.5

Bromochloromethane (74-97-5)

Reason Code:

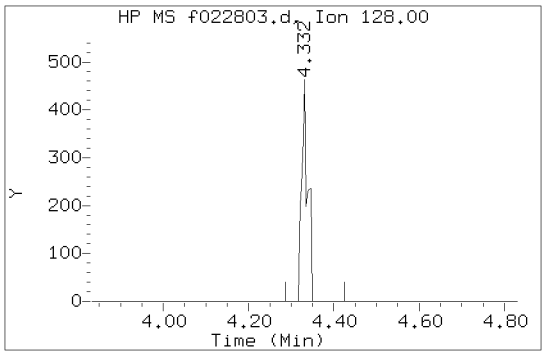
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HEIGHT
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28-Feb-2024
17:46
ALSHS
Server



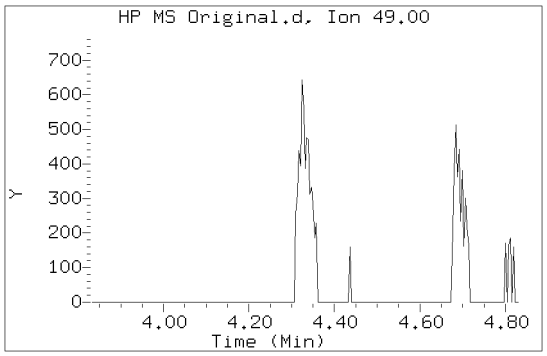
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481
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463
11-Mar-2024
18:39
ALSHS
Ser



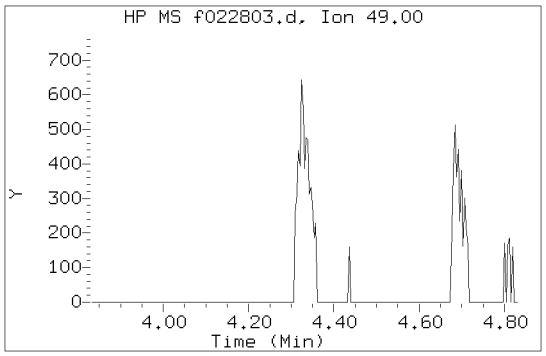
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17:46
ALSHS
Server



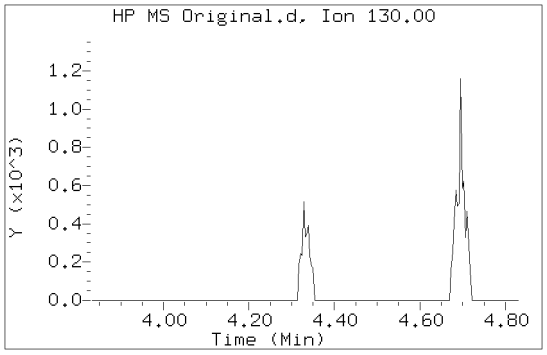
AFTER

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49
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HEIGHT
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11-Mar-2024
18:39
ALSHS
Ser



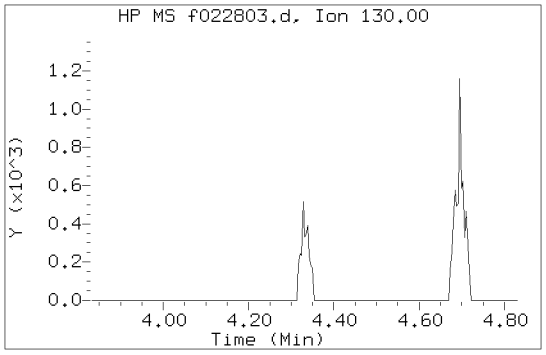
BEFORE

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130
AREA
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HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



AFTER

MASS
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AREA
0
HEIGHT
0
11-Mar-2024
18:39
ALSHS
Ser

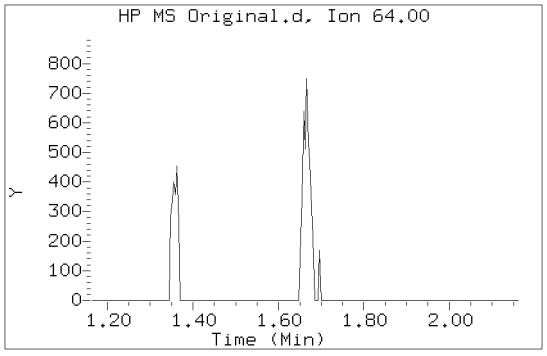


Chloroethane (75-00-3)

Reason Code:

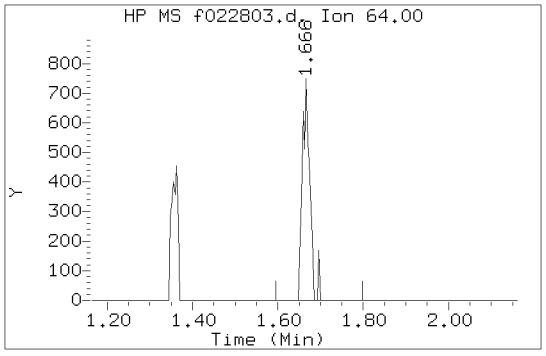
BEFORE

MASS
64
AREA
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HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



AFTER

MASS
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AREA
933
HEIGHT
749
11-Mar-2024
18:39
ALSHS
Ser



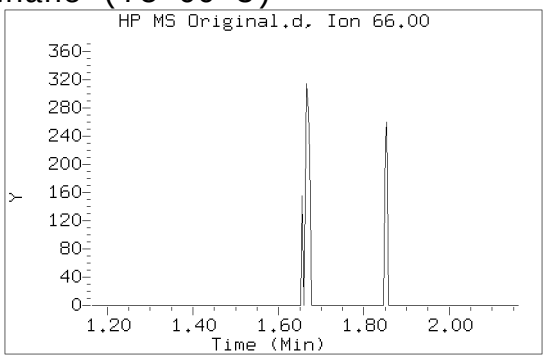
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Inj Date : 28-FEB-2024 17:30
InstruID : voa10.i
LabSampID : VSTD00.5

Chloroethane (75-00-3)

Reason Code:

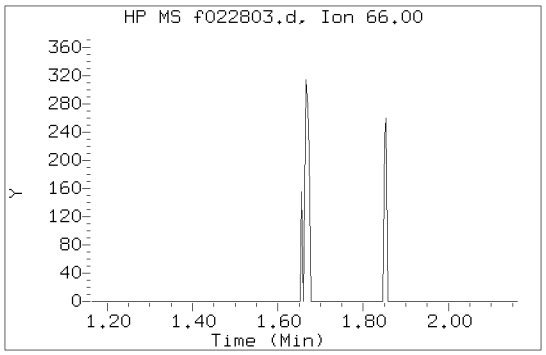
BEFORE

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66
AREA
0
HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



AFTER

MASS
66
AREA
0
HEIGHT
0
11-Mar-2024
18:39
ALSHS
Ser

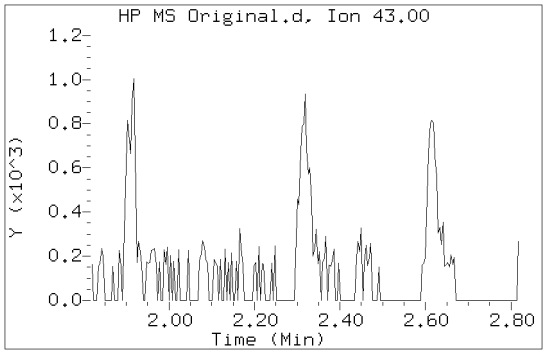


Acetone (67-64-1)

Reason Code:

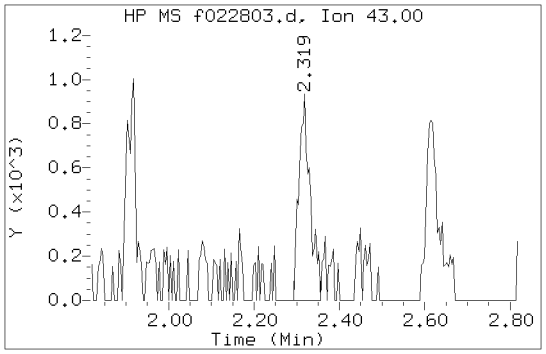
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HEIGHT
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28-Feb-2024
17:46
ALSHS
Server



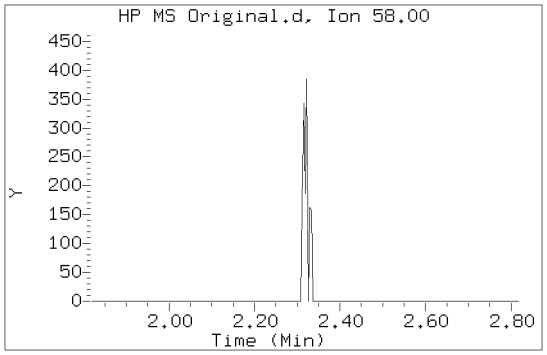
AFTER

MASS
43
AREA
1738
HEIGHT
934
11-Mar-2024
18:39
ALSHS
Ser



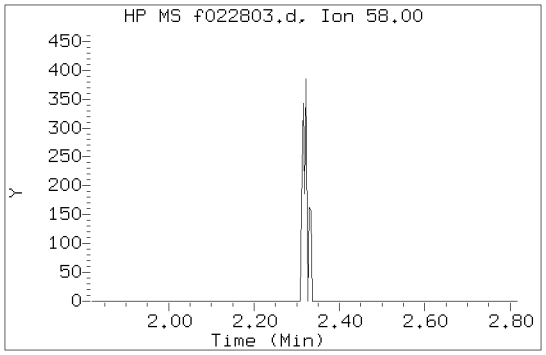
BEFORE

MASS
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AREA
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HEIGHT
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28-Feb-2024
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ALSHS
Server



AFTER

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AREA
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HEIGHT
0
11-Mar-2024
18:39
ALSHS
Ser

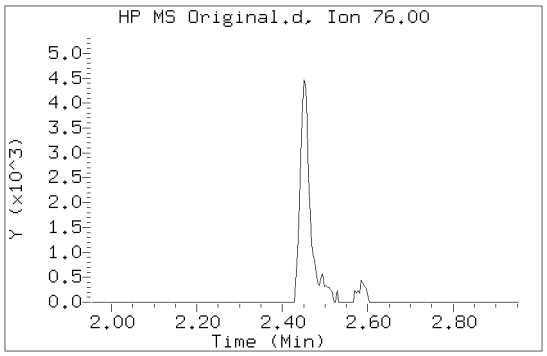


Carbon Disulfide (75-15-0)

Reason Code:

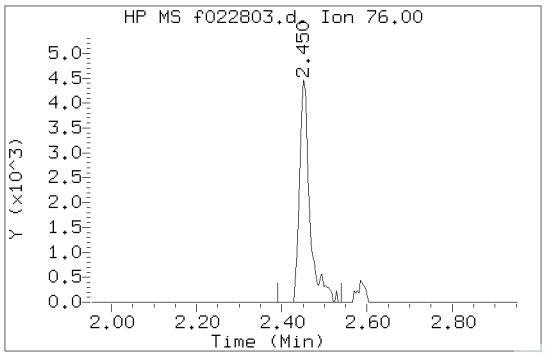
BEFORE

MASS
76
AREA
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HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



AFTER

MASS
76
AREA
7717
HEIGHT
4466
11-Mar-2024
18:39
ALSHS
Ser



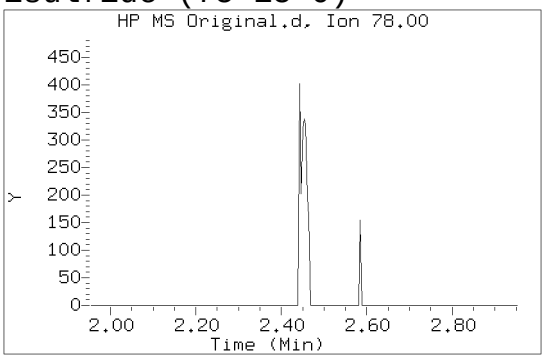
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Inj Date : 28-FEB-2024 17:30
InstruID : voa10.i
LabSampID : VSTD00.5

Carbon Disulfide (75-15-0)

Reason Code:

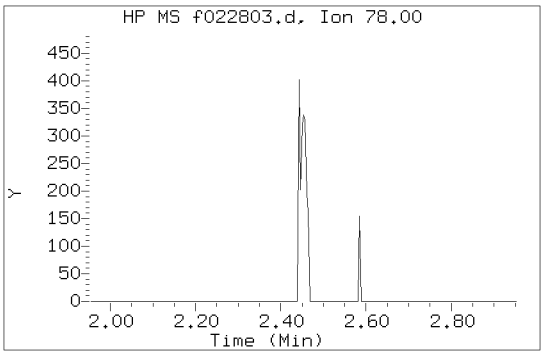
BEFORE

MASS
78
AREA
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HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



AFTER

MASS
78
AREA
0
HEIGHT
0
11-Mar-2024
18:39
ALSHS
Ser

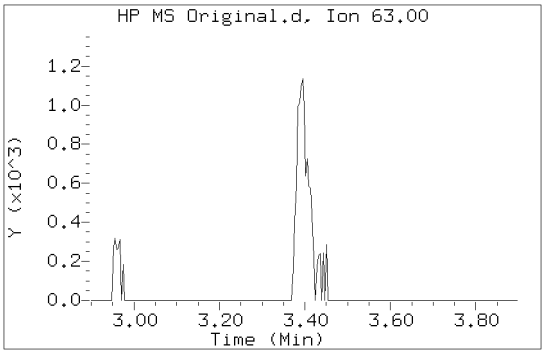


1,1-Dichloroethane (75-34-3)

Reason Code:

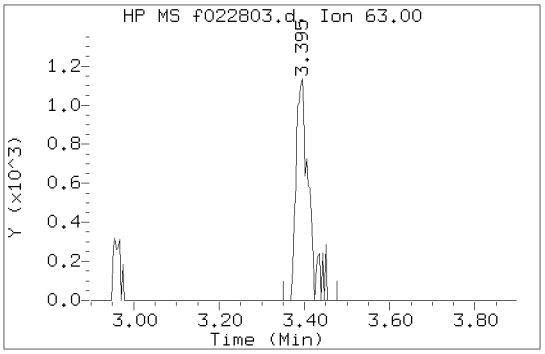
BEFORE

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28-Feb-2024
17:46
ALSHS
Server



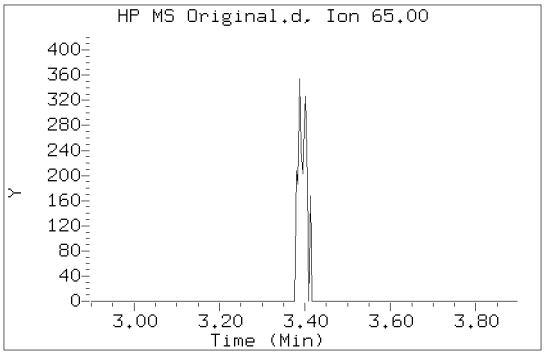
AFTER

MASS
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HEIGHT
1136
11-Mar-2024
18:39
ALSHS
Ser



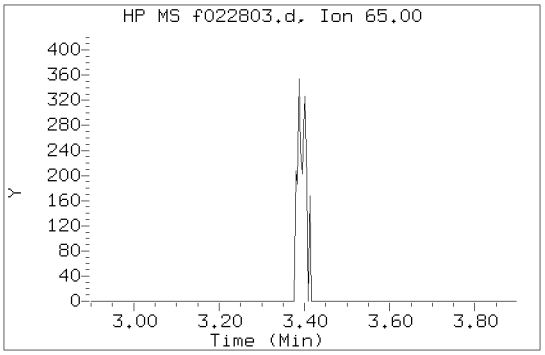
BEFORE

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AREA
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HEIGHT
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28-Feb-2024
17:46
ALSHS
Server



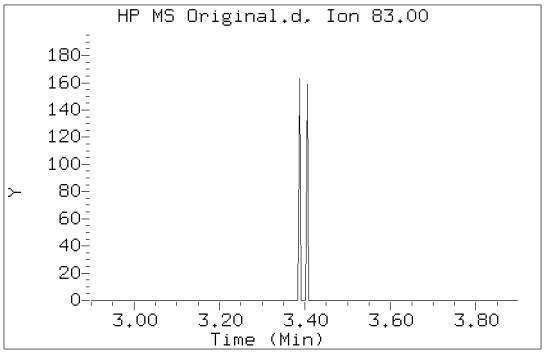
AFTER

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HEIGHT
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18:39
ALSHS
Ser



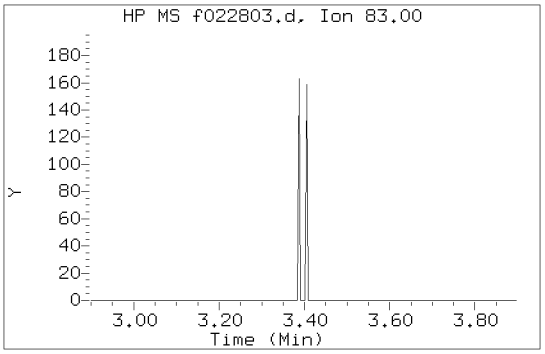
BEFORE

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HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



AFTER

MASS
83
AREA
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HEIGHT
0
11-Mar-2024
18:39
ALSHS
Ser



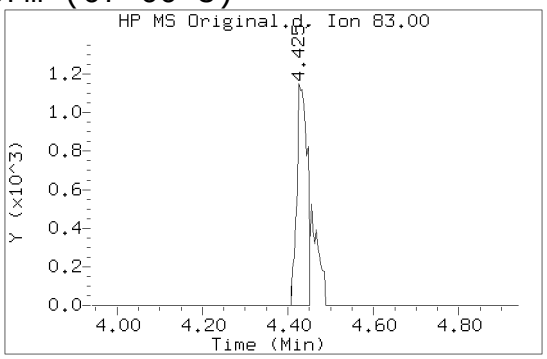
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Inj Date : 28-FEB-2024 17:30
InstruID : voa10.i
LabSampID : VSTD00.5

Chloroform (67-66-3)

Reason Code:

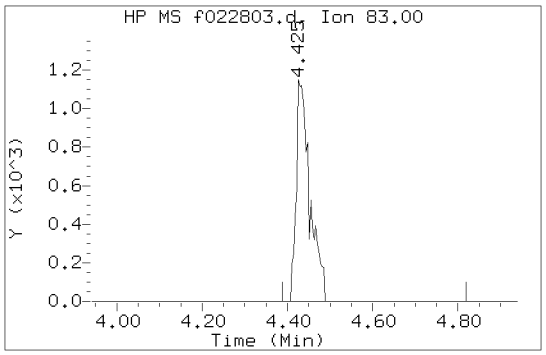
BEFORE

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HEIGHT
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28-Feb-2024
17:46
ALSHS
Server



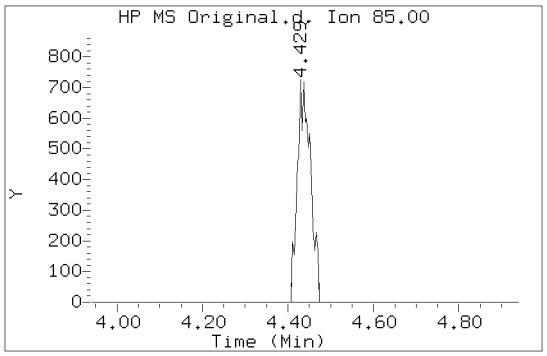
AFTER

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18:39
ALSHS
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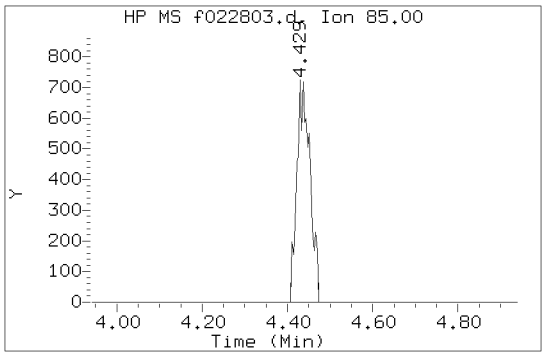
BEFORE

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AREA
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HEIGHT
725
28-Feb-2024
17:46
ALSHS
Server



AFTER

MASS
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AREA
1569
HEIGHT
725
11-Mar-2024
18:39
ALSHS
Ser

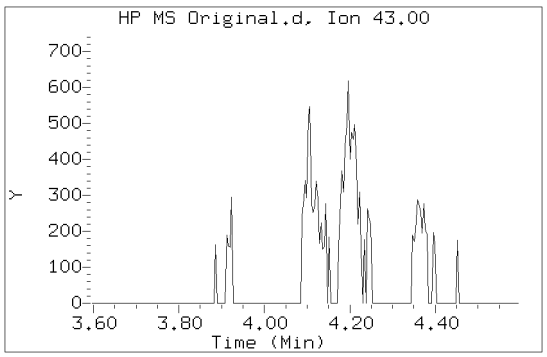


2-Butanone (78-93-3)

Reason Code:

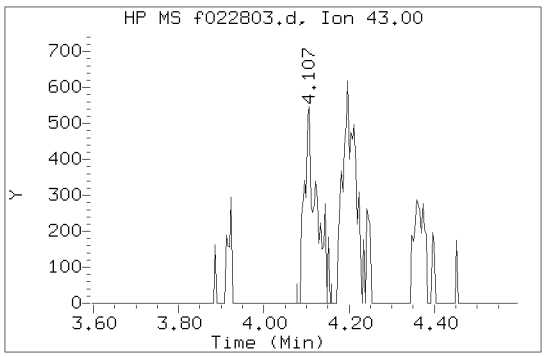
BEFORE

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HEIGHT
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28-Feb-2024
17:46
ALSHS
Server



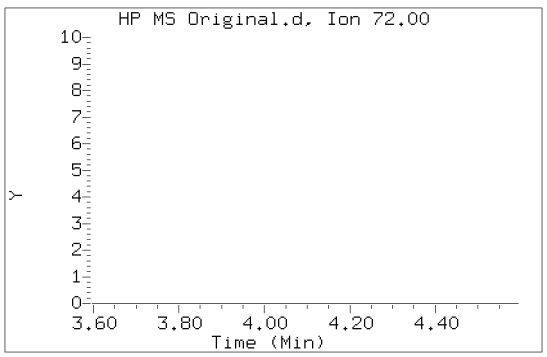
AFTER

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18:39
ALSHS
Ser



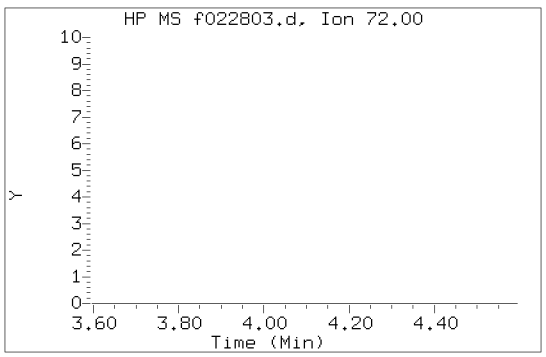
BEFORE

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28-Feb-2024
17:46
ALSHS
Server



AFTER

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AREA
0
HEIGHT
0
11-Mar-2024
18:39
ALSHS
Ser

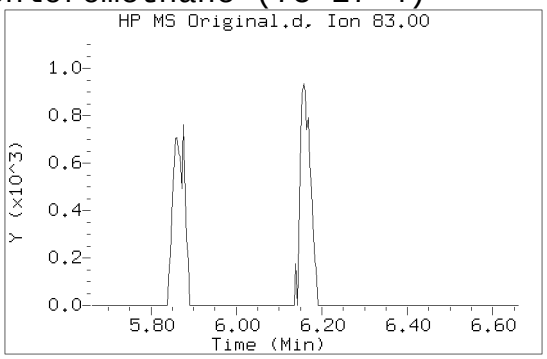


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Inj Date : 28-FEB-2024 17:30
InstruID : voa10.i
LabSampID : VSTD00.5

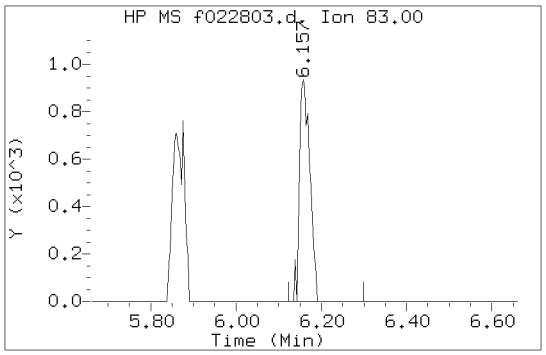
Bromodichloromethane (75-27-4)

Reason Code:

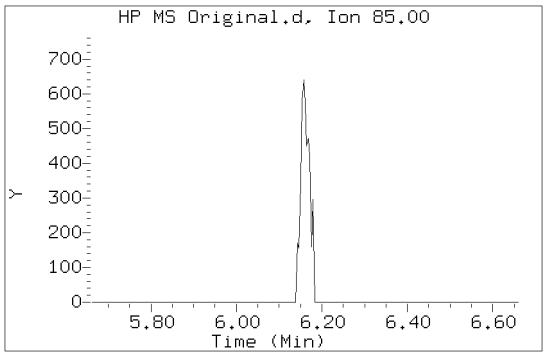
BEFORE
MASS
83
AREA
0
HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



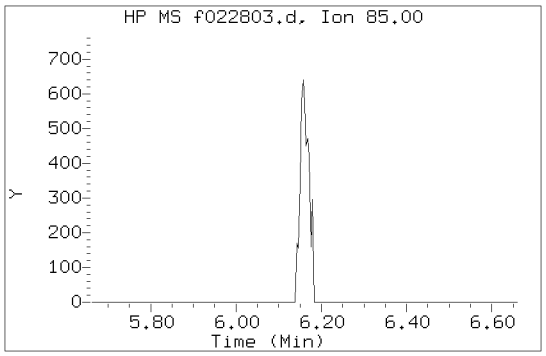
AFTER
MASS
83
AREA
1621
HEIGHT
935
11-Mar-2024
18:39
ALSHS
Ser



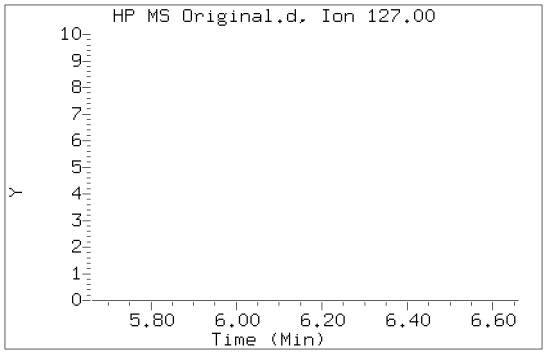
BEFORE
MASS
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AREA
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HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



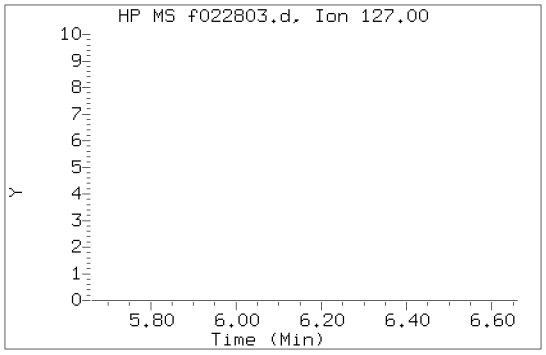
AFTER
MASS
85
AREA
0
HEIGHT
0
11-Mar-2024
18:39
ALSHS
Ser



BEFORE
MASS
127
AREA
0
HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



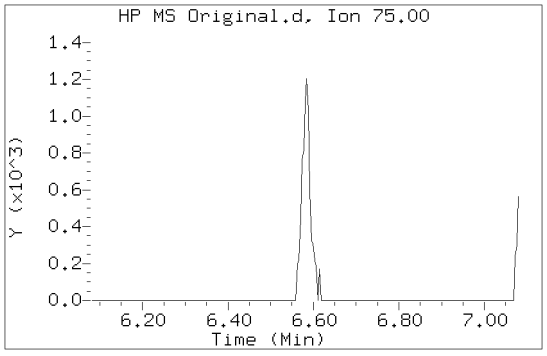
AFTER
MASS
127
AREA
0
HEIGHT
0
11-Mar-2024
18:39
ALSHS
Ser



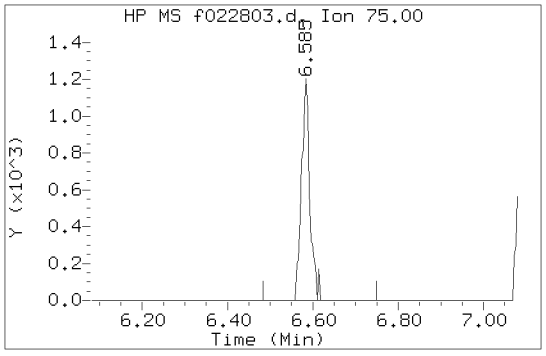
cis-1,3-Dichloropropene (10061-01-5)

Reason Code:

BEFORE
MASS
75
AREA
0
HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



AFTER
MASS
75
AREA
1697
HEIGHT
1203
11-Mar-2024
18:39
ALSHS
Ser



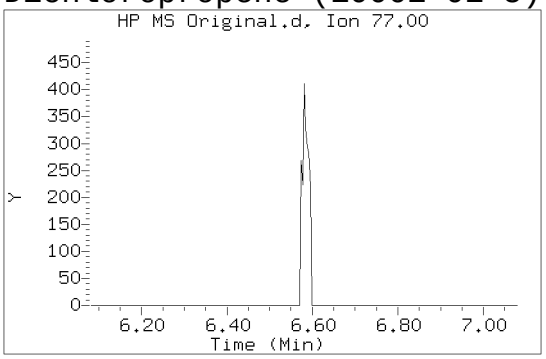
Data File : \\nahstws005\target\chem\voa10.i\g240228.b\f022803.d
Inj Date : 28-FEB-2024 17:30
InstruID : voa10.i
LabSampID : VSTD00.5

cis-1,3-Dichloropropene (10061-01-5)

Reason Code:

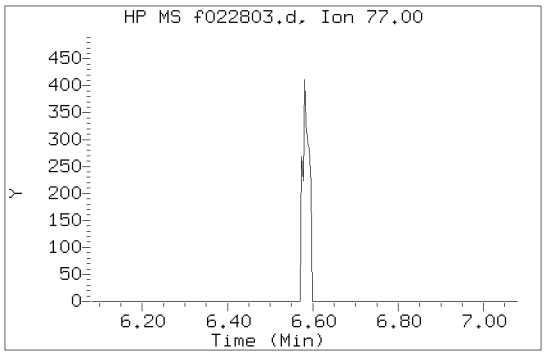
BEFORE

MASS
77
AREA
0
HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



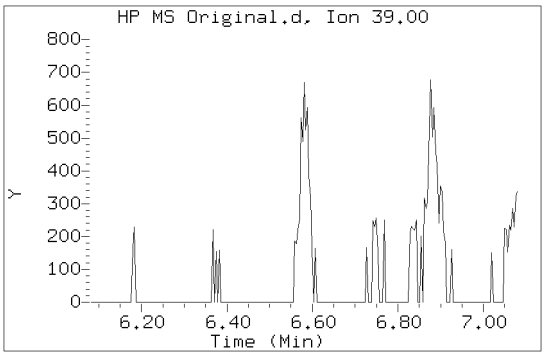
AFTER

MASS
77
AREA
0
HEIGHT
0
11-Mar-2024
18:39
ALSHS
Ser



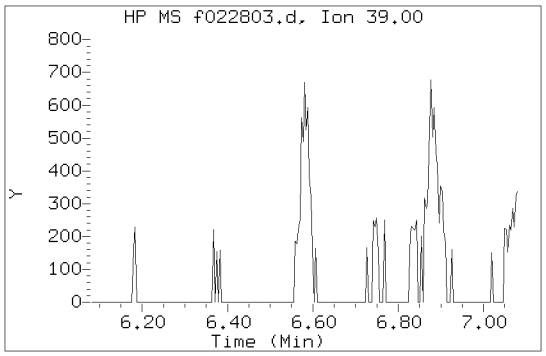
BEFORE

MASS
39
AREA
0
HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



AFTER

MASS
39
AREA
0
HEIGHT
0
11-Mar-2024
18:39
ALSHS
Ser

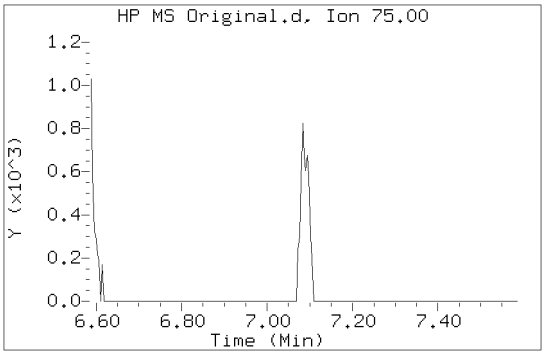


trans-1,3-Dichloropropene (10061-02-6)

Reason Code:

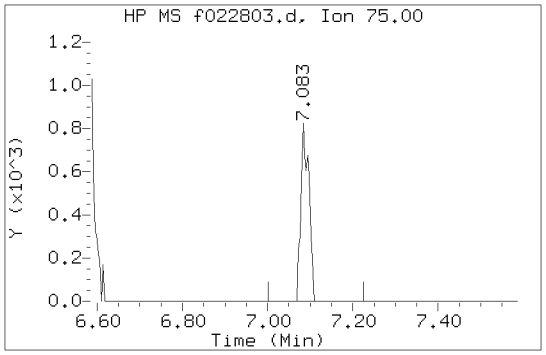
BEFORE

MASS
75
AREA
0
HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



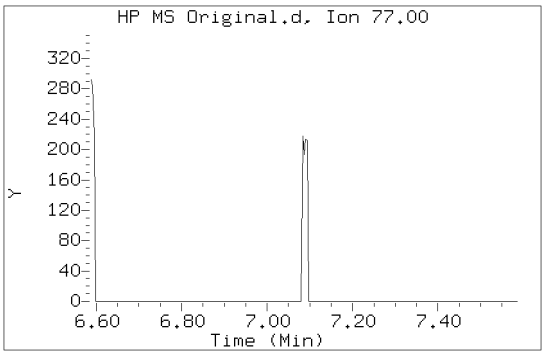
AFTER

MASS
75
AREA
1114
HEIGHT
825
11-Mar-2024
18:39
ALSHS
Ser



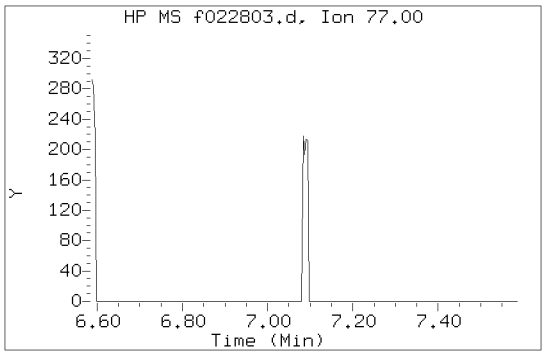
BEFORE

MASS
77
AREA
0
HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



AFTER

MASS
77
AREA
0
HEIGHT
0
11-Mar-2024
18:39
ALSHS
Ser



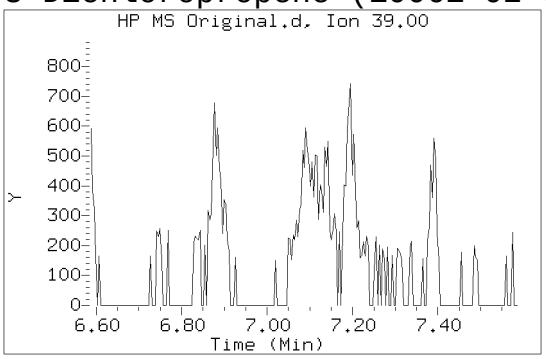
Data File : \\nahstws005\target\chem\voa10.i\g240228.b\f022803.d
Inj Date : 28-FEB-2024 17:30
InstruID : voa10.i
LabSampID : VSTD00.5

trans-1,3-Dichloropropene (10061-02-6)

Reason Code:

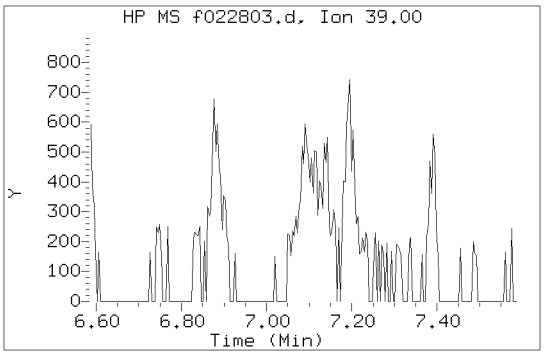
BEFORE

MASS
39
AREA
0
HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



AFTER

MASS
39
AREA
0
HEIGHT
0
11-Mar-2024
18:39
ALSHS
Ser

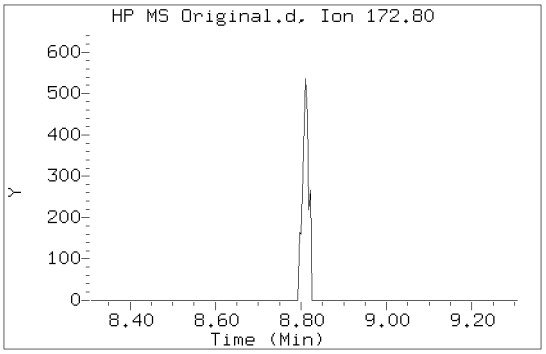


Bromoform (75-25-2)

Reason Code:

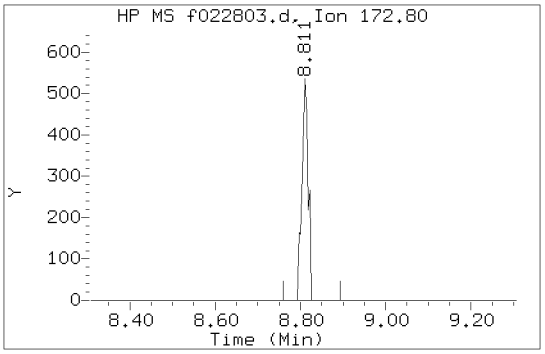
BEFORE

MASS
172.8
AREA
0
HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



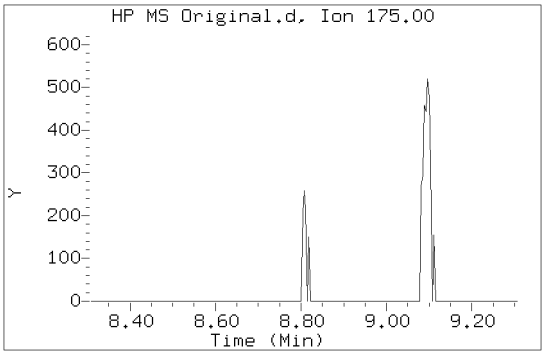
AFTER

MASS
172.8
AREA
567
HEIGHT
536
11-Mar-2024
18:39
ALSHS
Ser



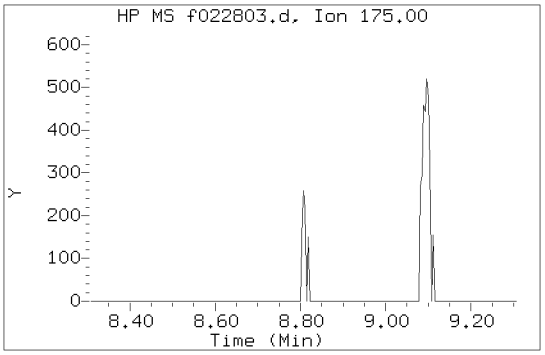
BEFORE

MASS
175
AREA
0
HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



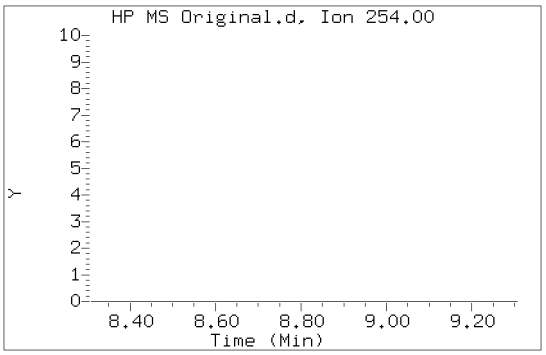
AFTER

MASS
175
AREA
0
HEIGHT
0
11-Mar-2024
18:39
ALSHS
Ser



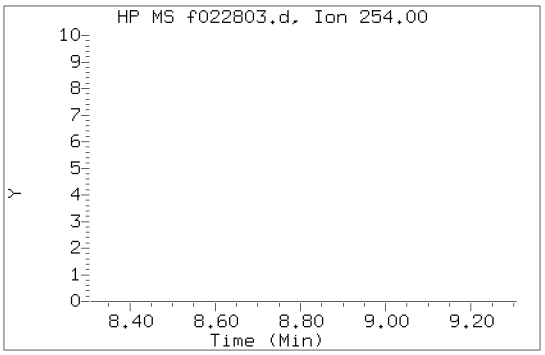
BEFORE

MASS
254
AREA
0
HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



AFTER

MASS
254
AREA
0
HEIGHT
0
11-Mar-2024
18:39
ALSHS
Ser

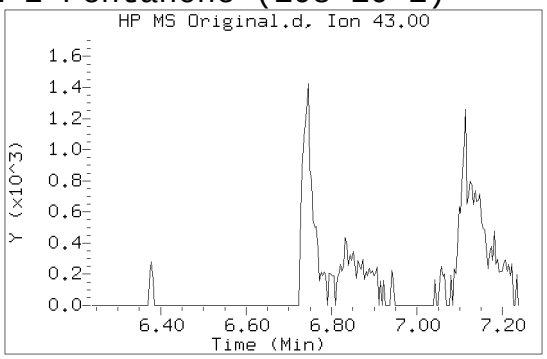


Data File : \\nahstws005\target\chem\voa10.i\g240228.b\f022803.d
Inj Date : 28-FEB-2024 17:30
InstruID : voa10.i
LabSampID : VSTD00.5

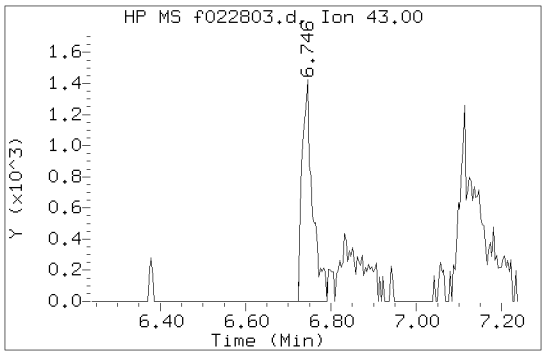
4-Methyl-2-Pentanone (108-10-1)

Reason Code:

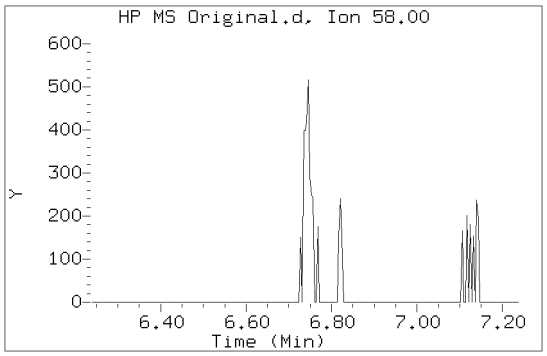
BEFORE
MASS
43
AREA
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HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



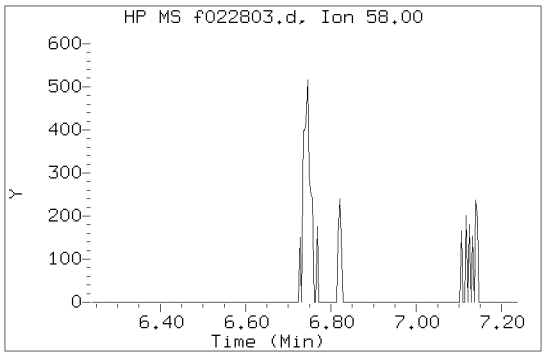
AFTER
MASS
43
AREA
2461
HEIGHT
1424
11-Mar-2024
18:39
ALSHS
Ser



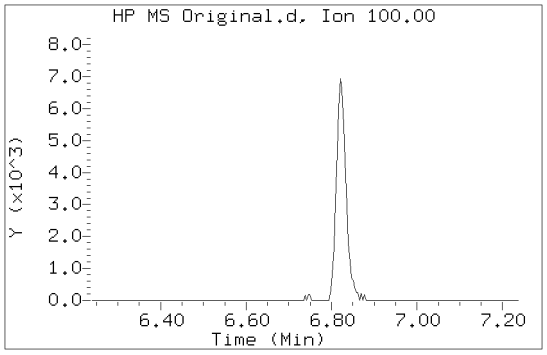
BEFORE
MASS
58
AREA
0
HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



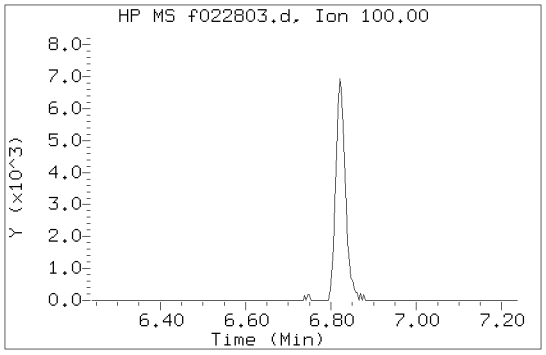
AFTER
MASS
58
AREA
0
HEIGHT
0
11-Mar-2024
18:39
ALSHS
Ser



BEFORE
MASS
100
AREA
0
HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



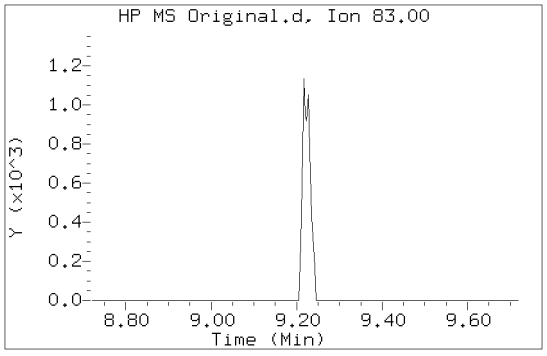
AFTER
MASS
100
AREA
0
HEIGHT
0
11-Mar-2024
18:39
ALSHS
Ser



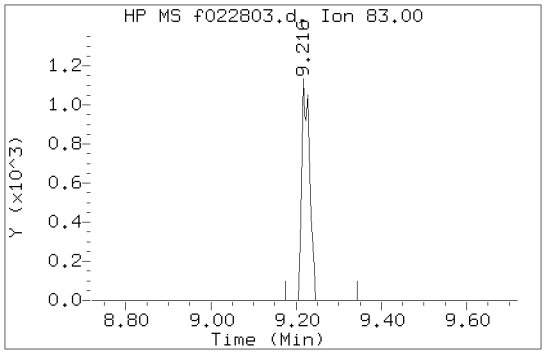
1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

BEFORE
MASS
83
AREA
0
HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



AFTER
MASS
83
AREA
1489
HEIGHT
1134
11-Mar-2024
18:39
ALSHS
Ser



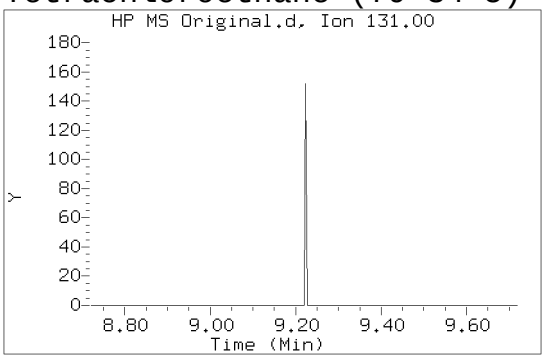
Data File : \\nahstws005\target\chem\voa10.i\g240228.b\f022803.d
Inj Date : 28-FEB-2024 17:30
InstruID : voa10.i
LabSampID : VSTD00.5

1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

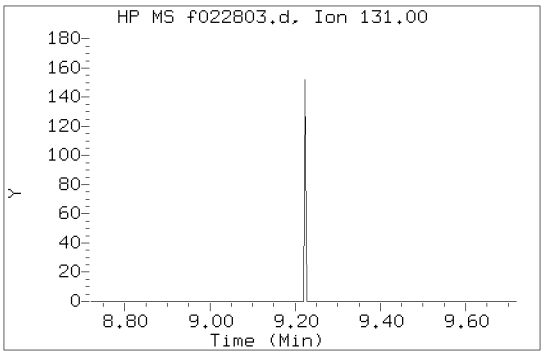
BEFORE

MASS
131
AREA
0
HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



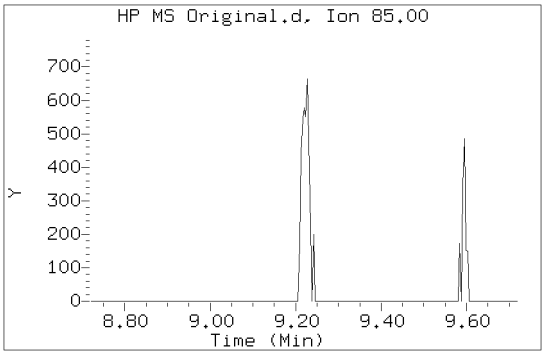
AFTER

MASS
131
AREA
0
HEIGHT
0
11-Mar-2024
18:39
ALSHS
Ser



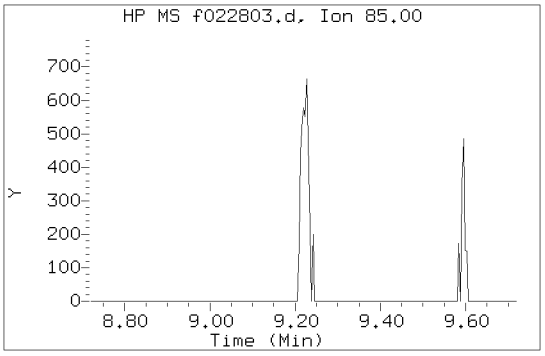
BEFORE

MASS
85
AREA
0
HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



AFTER

MASS
85
AREA
0
HEIGHT
0
11-Mar-2024
18:39
ALSHS
Ser

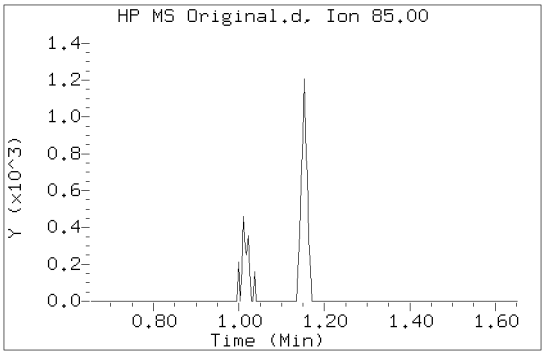


Dichlorodifluoromethane (75-71-8)

Reason Code:

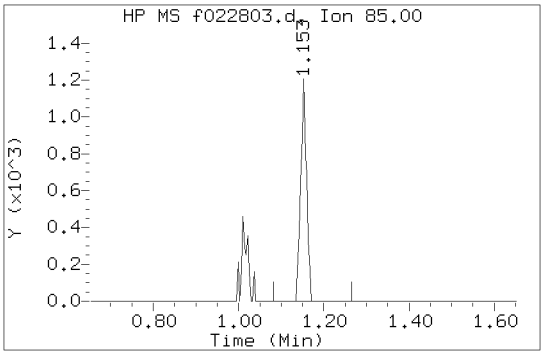
BEFORE

MASS
85
AREA
0
HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



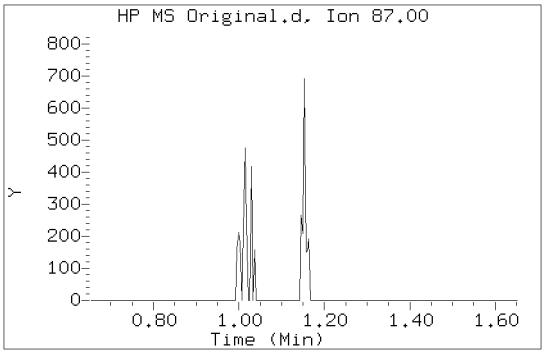
AFTER

MASS
85
AREA
1181
HEIGHT
1206
11-Mar-2024
18:39
ALSHS
Ser



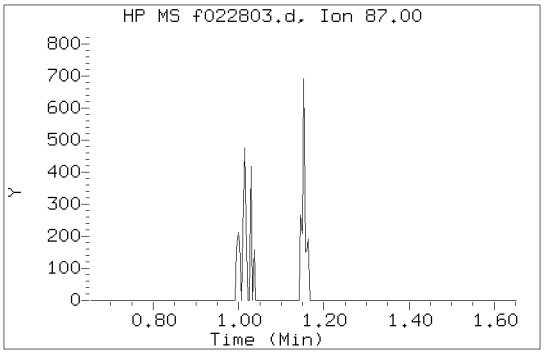
BEFORE

MASS
87
AREA
0
HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



AFTER

MASS
87
AREA
0
HEIGHT
0
11-Mar-2024
18:39
ALSHS
Ser



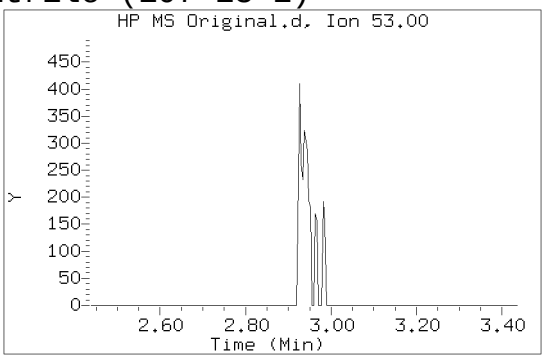
Data File : \\nahstws005\target\chem\voa10.i\g240228.b\f022803.d
Inj Date : 28-FEB-2024 17:30
InstruID : voa10.i
LabSampID : VSTD00.5

Acrylonitrile (107-13-1)

Reason Code:

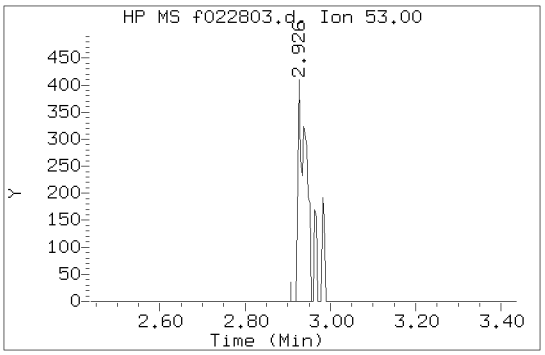
BEFORE

MASS
53
AREA
0
HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



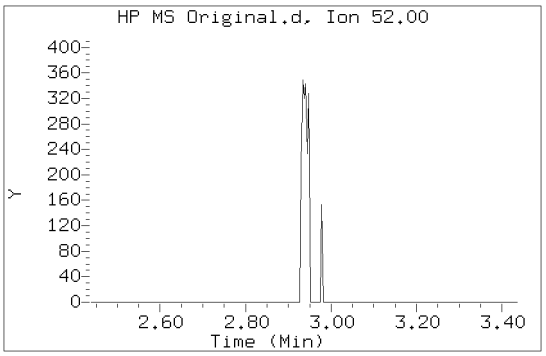
AFTER

MASS
53
AREA
528
HEIGHT
410
11-Mar-2024
18:39
ALSHS
Ser



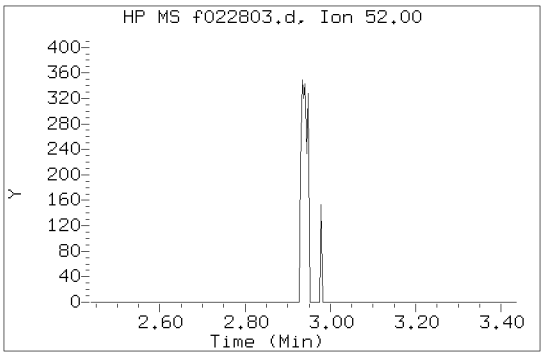
BEFORE

MASS
52
AREA
0
HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



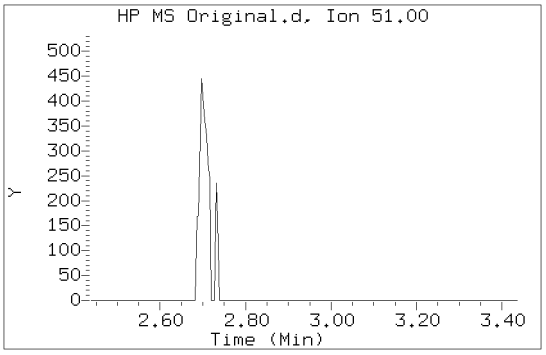
AFTER

MASS
52
AREA
0
HEIGHT
0
11-Mar-2024
18:39
ALSHS
Ser



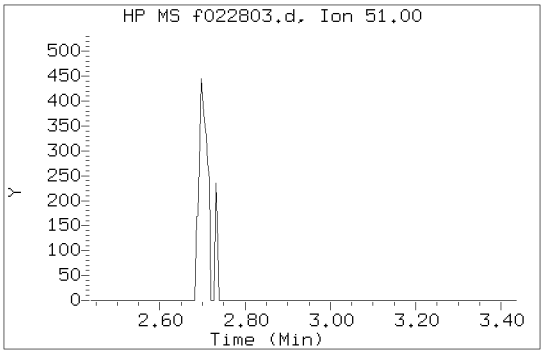
BEFORE

MASS
51
AREA
0
HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



AFTER

MASS
51
AREA
0
HEIGHT
0
11-Mar-2024
18:39
ALSHS
Ser

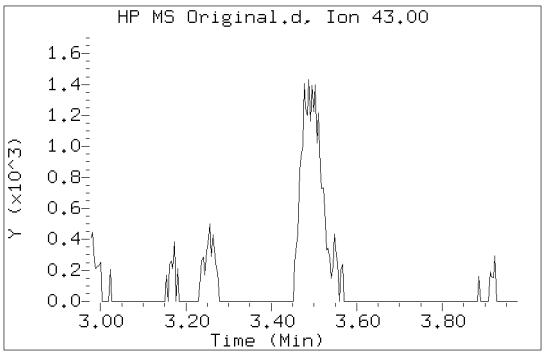


Vinyl Acetate (108-05-4)

Reason Code:

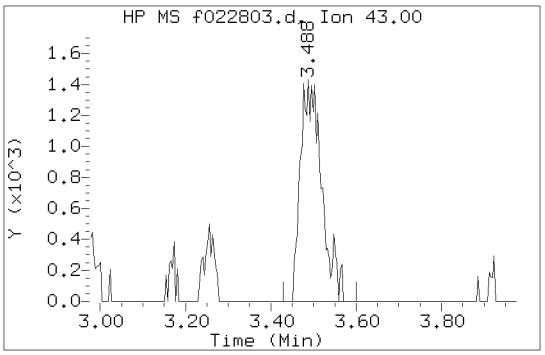
BEFORE

MASS
43
AREA
0
HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



AFTER

MASS
43
AREA
4994
HEIGHT
1431
11-Mar-2024
18:39
ALSHS
Ser



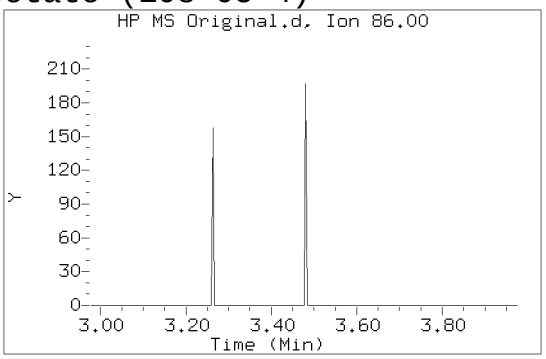
Data File : \\nahstws005\target\chem\voa10.i\g240228.b\f022803.d
Inj Date : 28-FEB-2024 17:30
InstruID : voa10.i
LabSampID : VSTD00.5

Vinyl Acetate (108-05-4)

Reason Code:

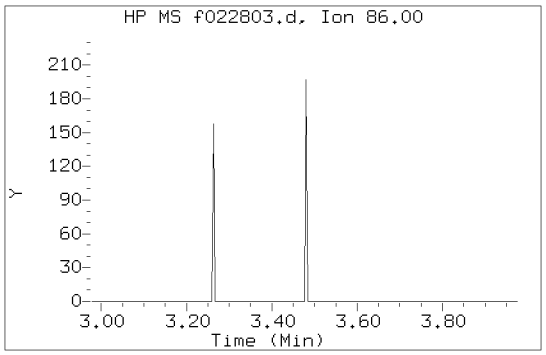
BEFORE

MASS
86
AREA
0
HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



AFTER

MASS
86
AREA
0
HEIGHT
0
11-Mar-2024
18:39
ALSHS
Ser

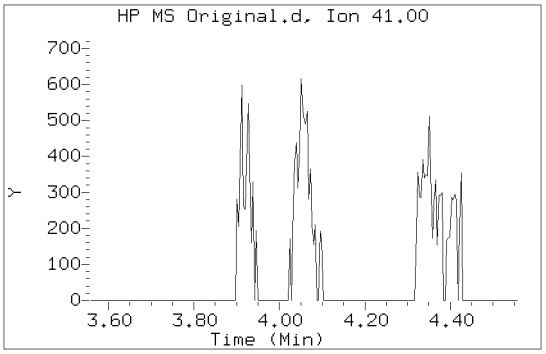


Methacrylonitrile (126-98-7)

Reason Code:

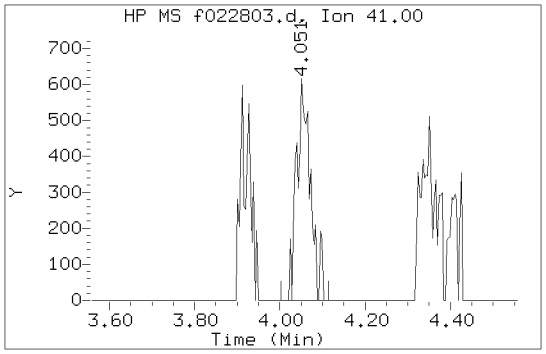
BEFORE

MASS
41
AREA
0
HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



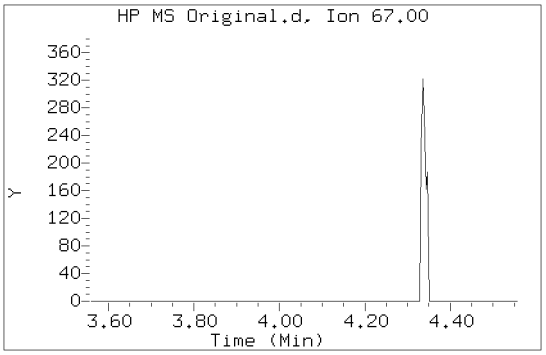
AFTER

MASS
41
AREA
1403
HEIGHT
616
11-Mar-2024
18:39
ALSHS
Ser



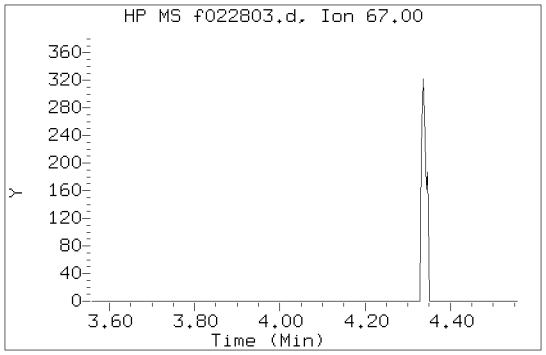
BEFORE

MASS
67
AREA
0
HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



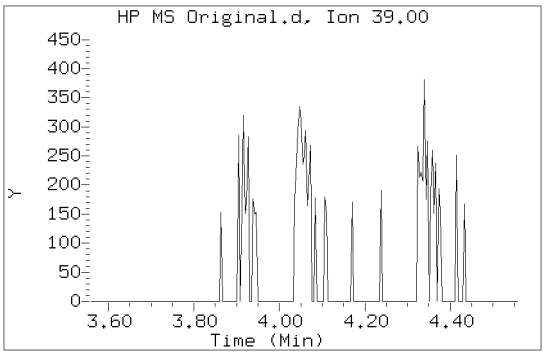
AFTER

MASS
67
AREA
0
HEIGHT
0
11-Mar-2024
18:39
ALSHS
Ser



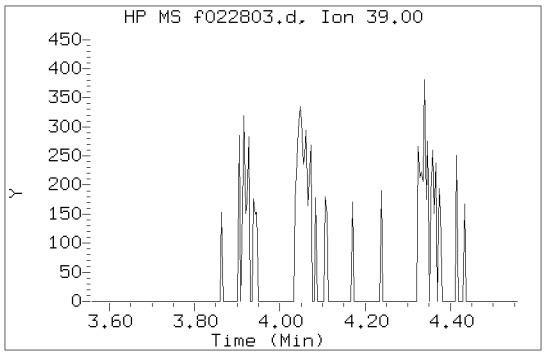
BEFORE

MASS
39
AREA
0
HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



AFTER

MASS
39
AREA
0
HEIGHT
0
11-Mar-2024
18:39
ALSHS
Ser



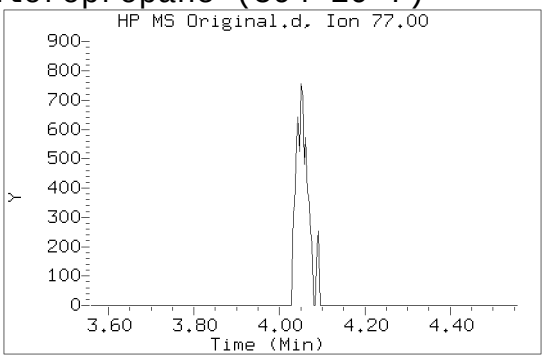
Data File : \\nahstws005\target\chem\voa10.i\g240228.b\f022803.d
Inj Date : 28-FEB-2024 17:30
InstruID : voa10.i
LabSampID : VSTD00.5

2,2-Dichloropropane (594-20-7)

Reason Code:

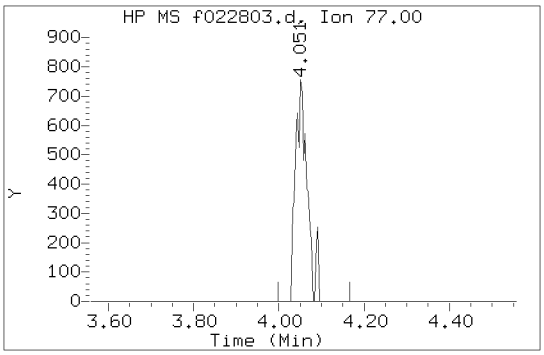
BEFORE

MASS
77
AREA
0
HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



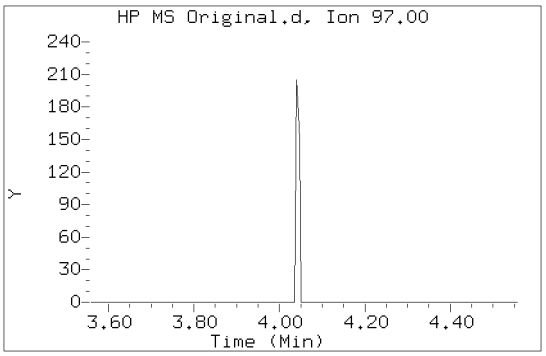
AFTER

MASS
77
AREA
1477
HEIGHT
756
11-Mar-2024
18:39
ALSHS
Ser



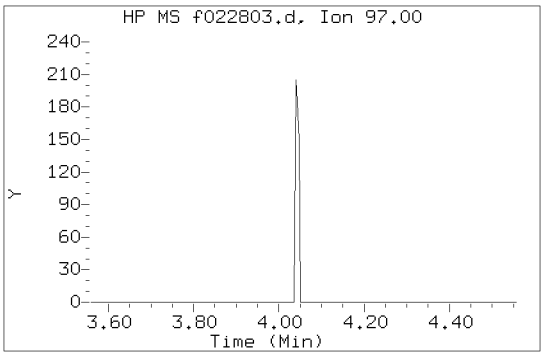
BEFORE

MASS
97
AREA
0
HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



AFTER

MASS
97
AREA
0
HEIGHT
0
11-Mar-2024
18:39
ALSHS
Ser

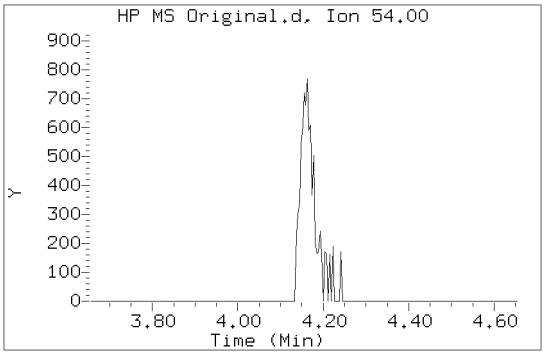


Propionitrile (107-12-0)

Reason Code:

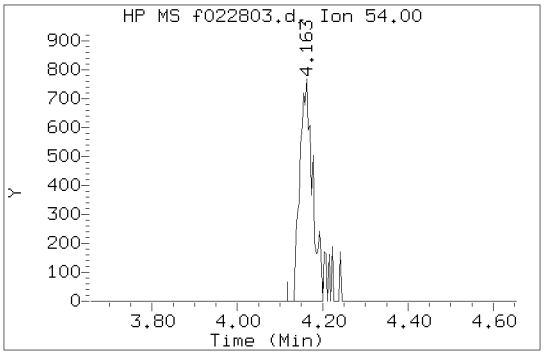
BEFORE

MASS
54
AREA
0
HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



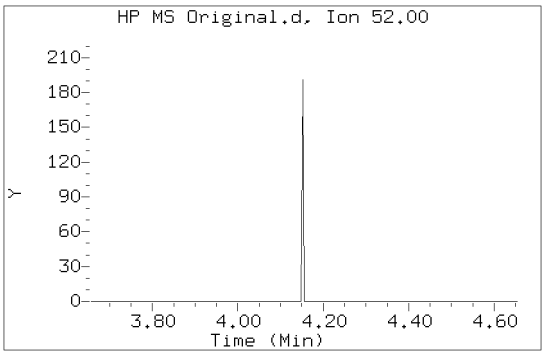
AFTER

MASS
54
AREA
1618
HEIGHT
768
11-Mar-2024
18:39
ALSHS
Ser



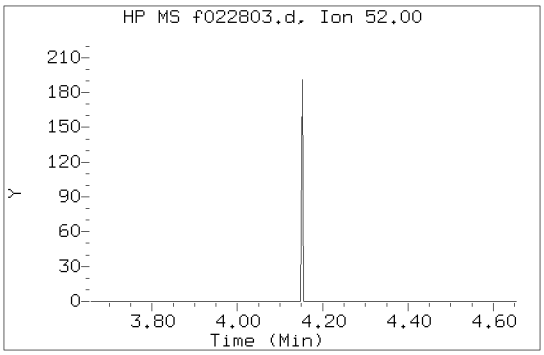
BEFORE

MASS
52
AREA
0
HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



AFTER

MASS
52
AREA
0
HEIGHT
0
11-Mar-2024
18:39
ALSHS
Ser



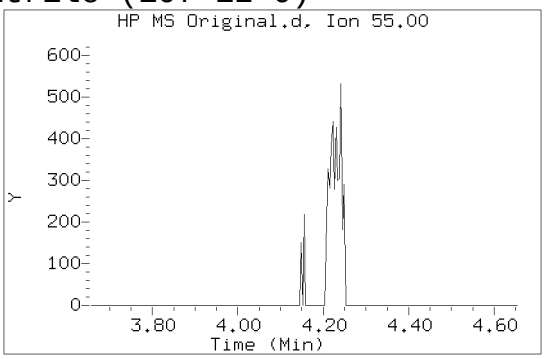
Data File : \\nahstws005\target\chem\voa10.i\g240228.b\f022803.d
Inj Date : 28-FEB-2024 17:30
InstruID : voa10.i
LabSampID : VSTD00.5

Propionitrile (107-12-0)

Reason Code:

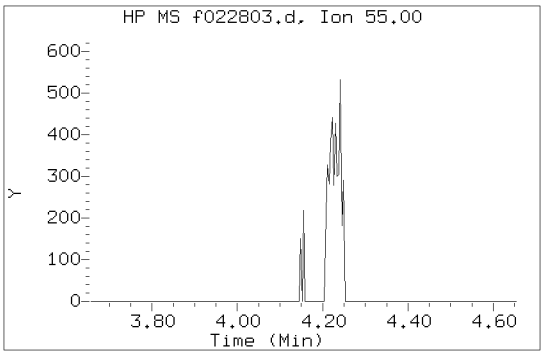
BEFORE

MASS
55
AREA
0
HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



AFTER

MASS
55
AREA
0
HEIGHT
0
11-Mar-2024
18:39
ALSHS
Ser

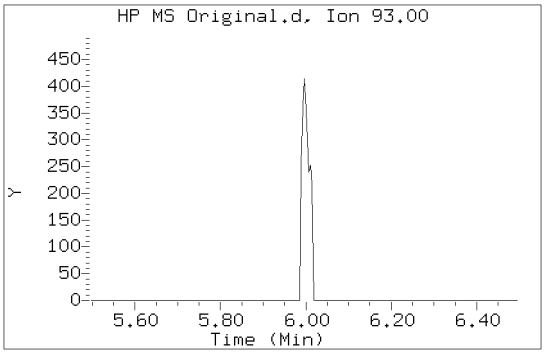


Dibromomethane (74-95-3)

Reason Code:

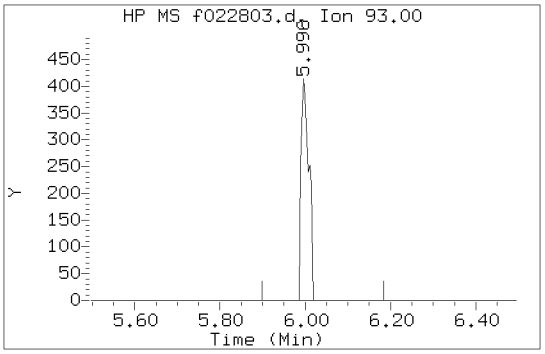
BEFORE

MASS
93
AREA
0
HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



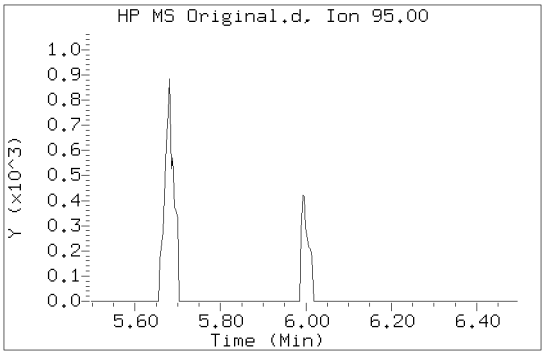
AFTER

MASS
93
AREA
543
HEIGHT
414
11-Mar-2024
18:39
ALSHS
Ser



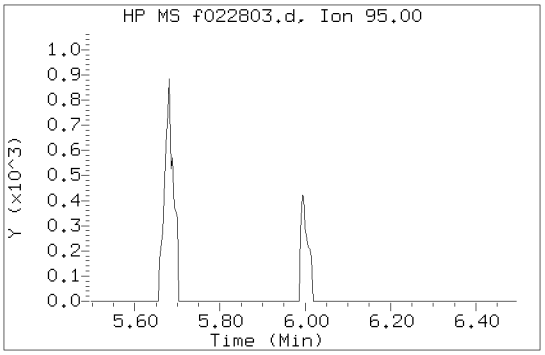
BEFORE

MASS
95
AREA
0
HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



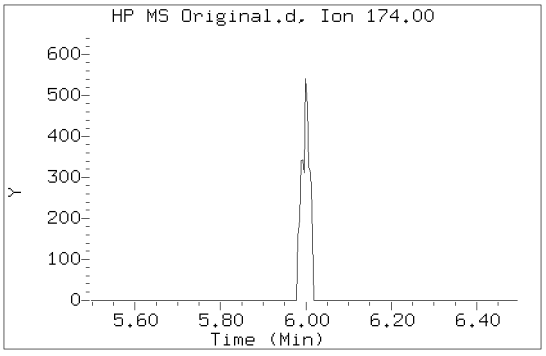
AFTER

MASS
95
AREA
0
HEIGHT
0
11-Mar-2024
18:39
ALSHS
Ser



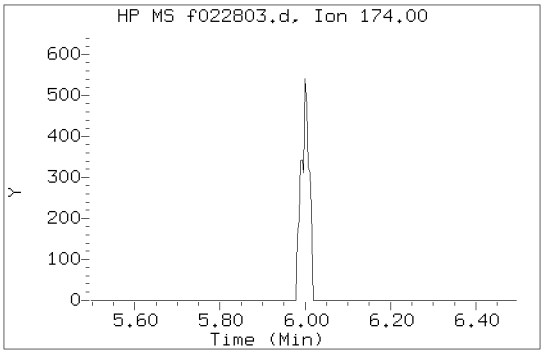
BEFORE

MASS
174
AREA
0
HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



AFTER

MASS
174
AREA
0
HEIGHT
0
11-Mar-2024
18:39
ALSHS
Ser



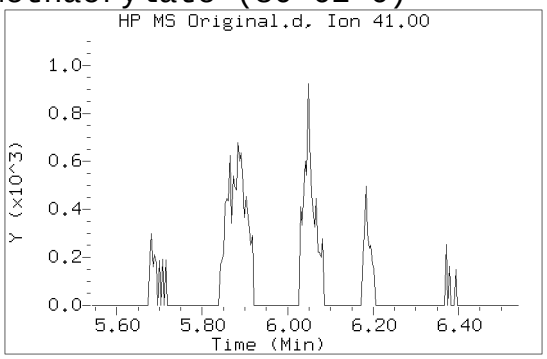
Data File : \\nahstws005\target\chem\voa10.i\g240228.b\f022803.d
Inj Date : 28-FEB-2024 17:30
InstruID : voa10.i
LabSampID : VSTD00.5

Methyl Methacrylate (80-62-6)

Reason Code:

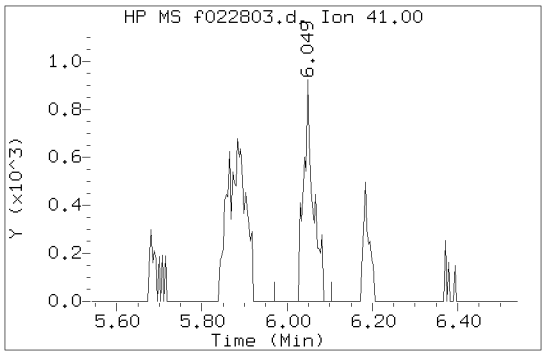
BEFORE

MASS
41
AREA
0
HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



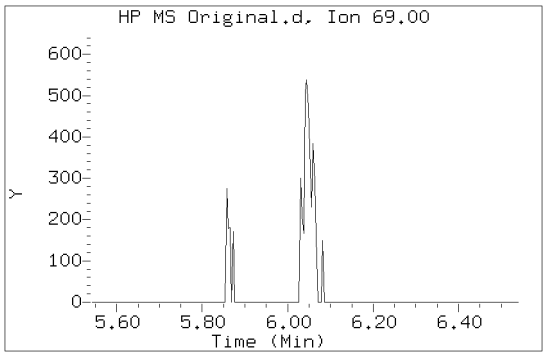
AFTER

MASS
41
AREA
1468
HEIGHT
924
11-Mar-2024
18:39
ALSHS
Ser



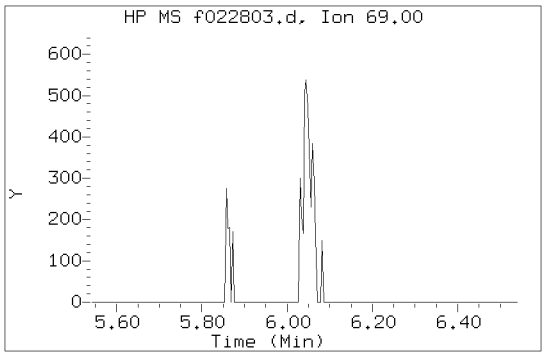
BEFORE

MASS
69
AREA
0
HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



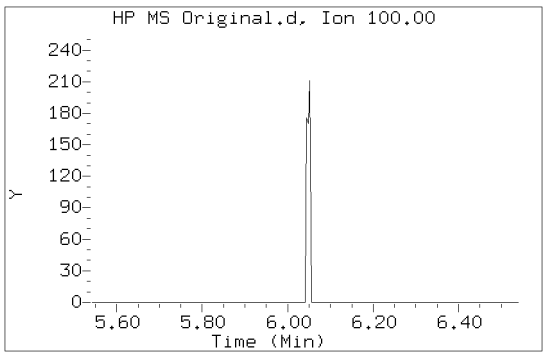
AFTER

MASS
69
AREA
0
HEIGHT
0
11-Mar-2024
18:39
ALSHS
Ser



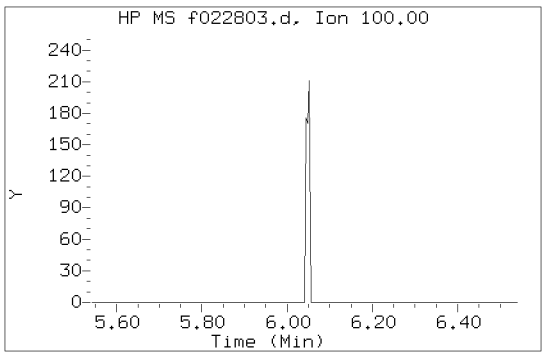
BEFORE

MASS
100
AREA
0
HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



AFTER

MASS
100
AREA
0
HEIGHT
0
11-Mar-2024
18:39
ALSHS
Ser

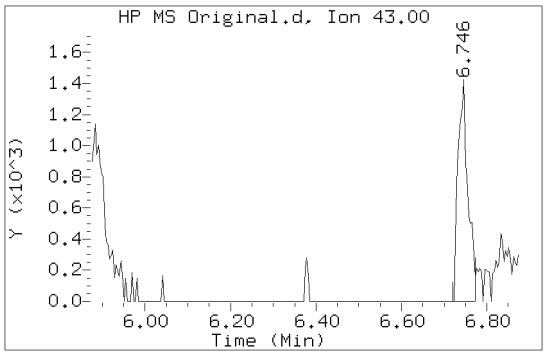


2-Nitropropane (79-46-9)

Reason Code:

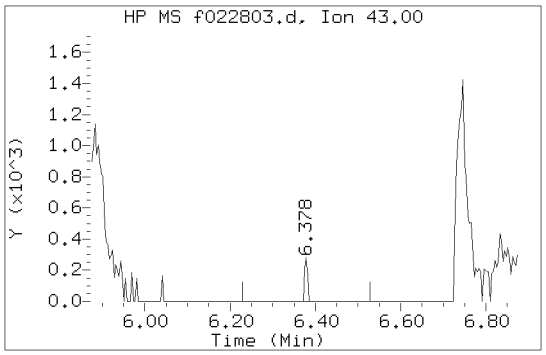
BEFORE

MASS
43
AREA
2279
HEIGHT
1424
28-Feb-2024
17:46
ALSHS
Server



AFTER

MASS
43
AREA
146
HEIGHT
281
11-Mar-2024
18:39
ALSHS
Ser



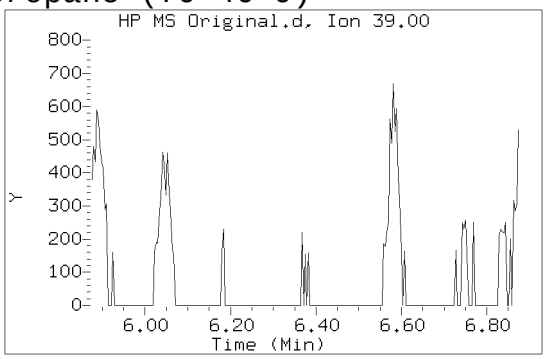
Data File : \\nahstws005\target\chem\voa10.i\g240228.b\f022803.d
Inj Date : 28-FEB-2024 17:30
InstruID : voa10.i
LabSampID : VSTD00.5

2-Nitropropane (79-46-9)

Reason Code:

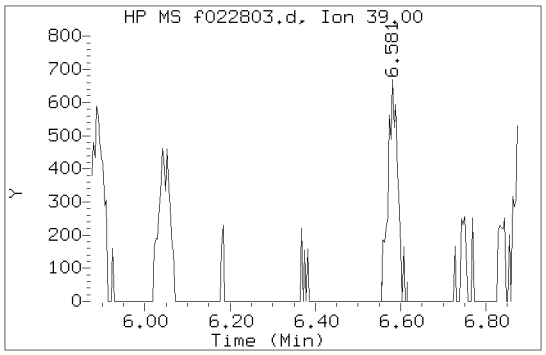
BEFORE

MASS
39
AREA
1264
HEIGHT
677
28-Feb-2024
17:46
ALSHS
Server



AFTER

MASS
39
AREA
1059
HEIGHT
669
11-Mar-2024
18:39
ALSHS
Ser

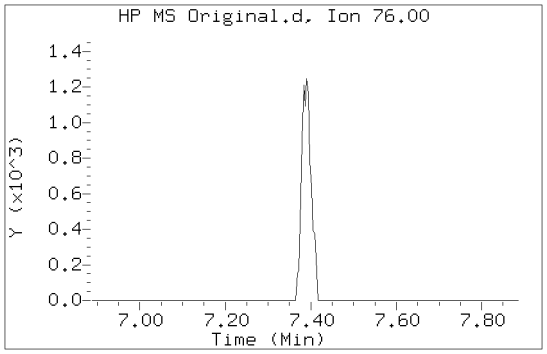


1,3-Dichloropropane (142-28-9)

Reason Code:

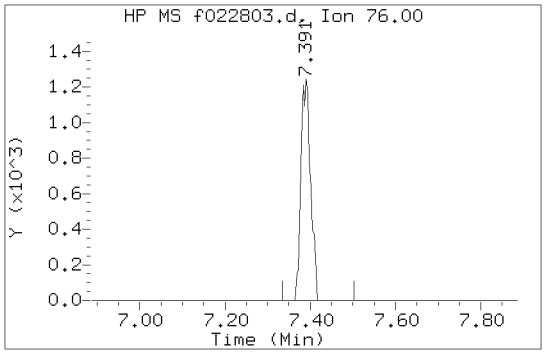
BEFORE

MASS
76
AREA
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HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



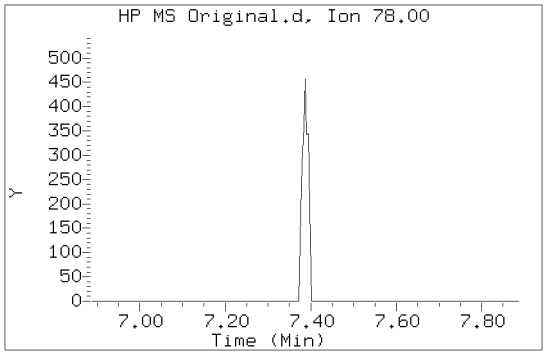
AFTER

MASS
76
AREA
2009
HEIGHT
1247
11-Mar-2024
18:39
ALSHS
Ser



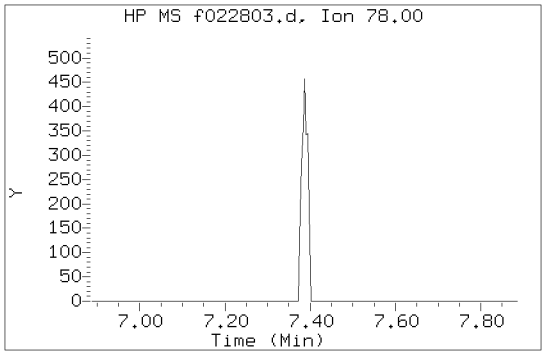
BEFORE

MASS
78
AREA
0
HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



AFTER

MASS
78
AREA
0
HEIGHT
0
11-Mar-2024
18:39
ALSHS
Ser

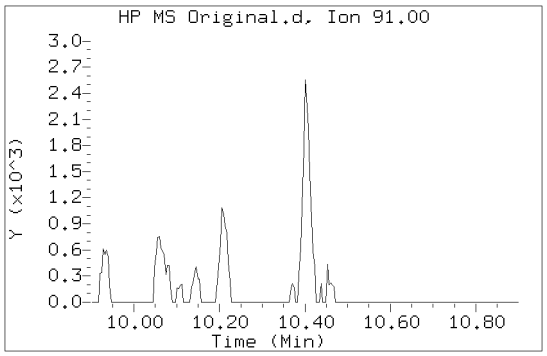


Benzyl Chloride (100-44-7)

Reason Code:

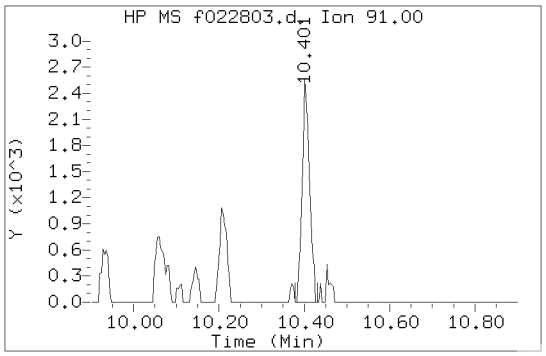
BEFORE

MASS
91
AREA
0
HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



AFTER

MASS
91
AREA
3177
HEIGHT
2553
11-Mar-2024
18:39
ALSHS
Ser

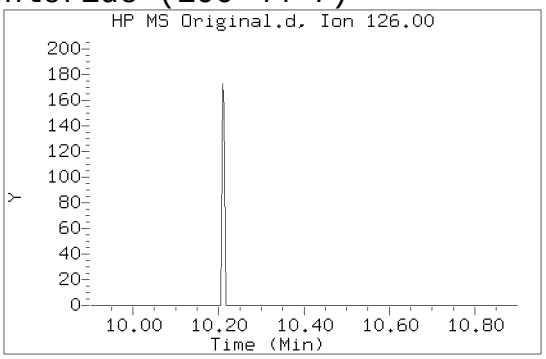


Data File : \\nahstws005\target\chem\voa10.i\g240228.b\f022803.d
Inj Date : 28-FEB-2024 17:30
InstruID : voa10.i
LabSampID : VSTD00.5

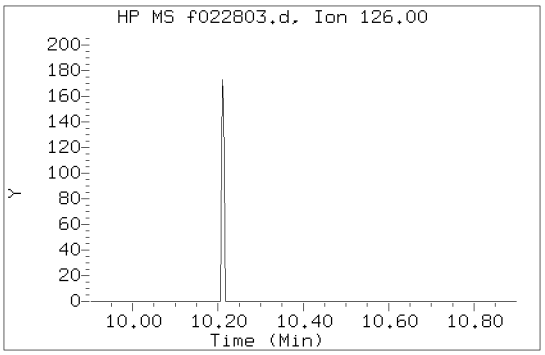
Benzyl Chloride (100-44-7)

Reason Code:

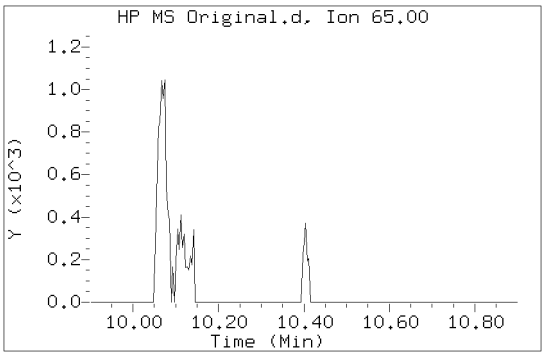
BEFORE
MASS
126
AREA
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HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



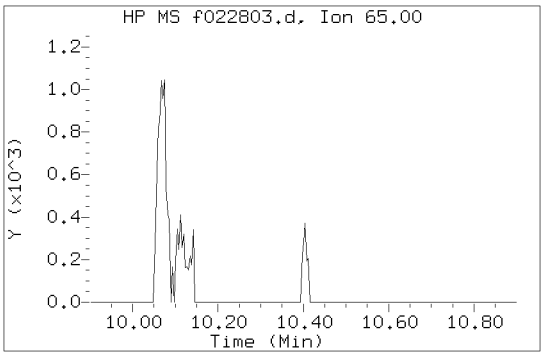
AFTER
MASS
126
AREA
0
HEIGHT
0
11-Mar-2024
18:39
ALSHS
Ser



BEFORE
MASS
65
AREA
0
HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



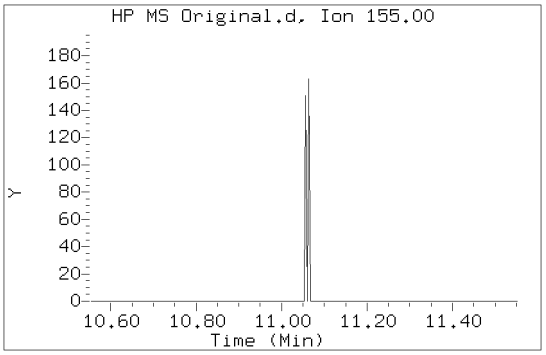
AFTER
MASS
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HEIGHT
0
11-Mar-2024
18:39
ALSHS
Ser



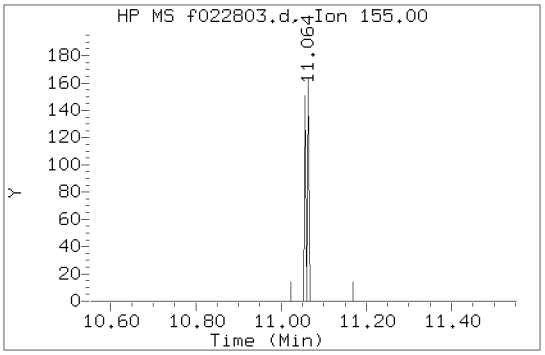
1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

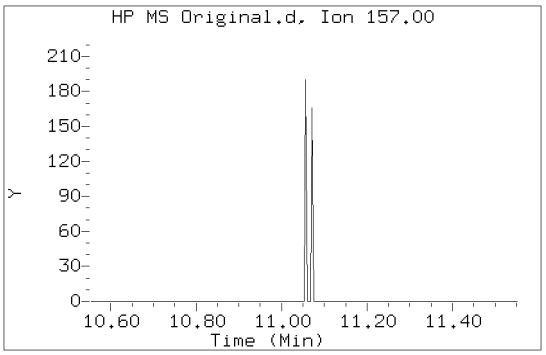
BEFORE
MASS
155
AREA
0
HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



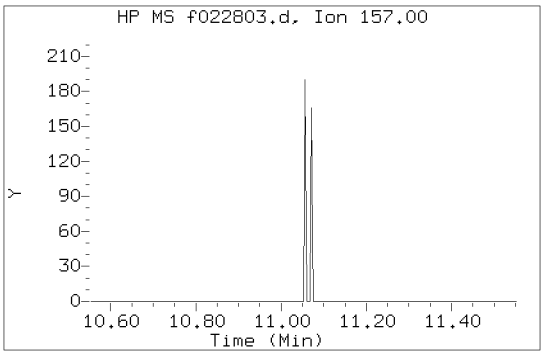
AFTER
MASS
155
AREA
70
HEIGHT
163
11-Mar-2024
18:39
ALSHS
Ser



BEFORE
MASS
157
AREA
0
HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



AFTER
MASS
157
AREA
0
HEIGHT
0
11-Mar-2024
18:39
ALSHS
Ser



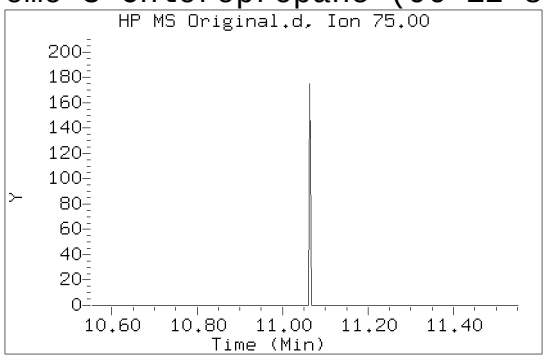
Data File : \\nahstws005\target\chem\voa10.i\g240228.b\f022803.d
Inj Date : 28-FEB-2024 17:30
InstruID : voa10.i
LabSampID : VSTD00.5

1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

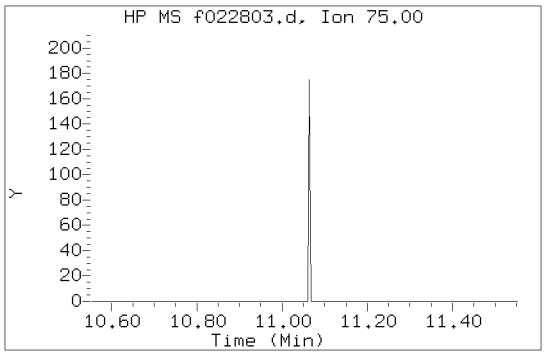
BEFORE

MASS
75
AREA
0
HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



AFTER

MASS
75
AREA
0
HEIGHT
0
11-Mar-2024
18:39
ALSHS
Ser

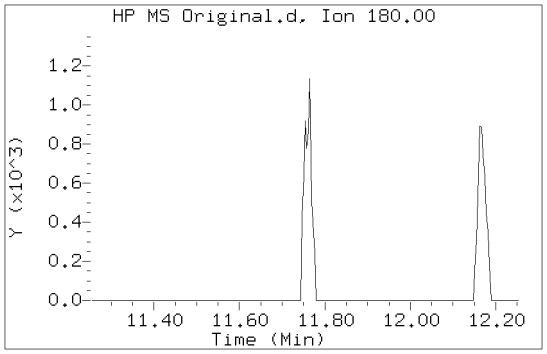


1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

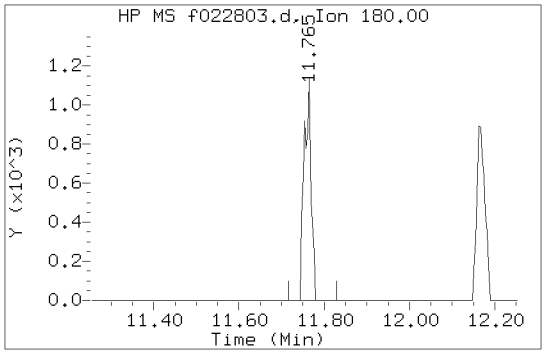
BEFORE

MASS
180
AREA
0
HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



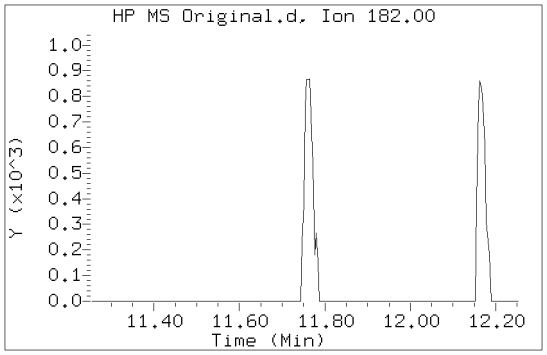
AFTER

MASS
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AREA
1330
HEIGHT
1135
11-Mar-2024
18:39
ALSHS
Ser



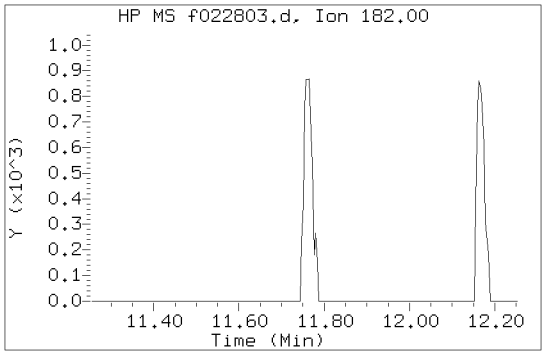
BEFORE

MASS
182
AREA
0
HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



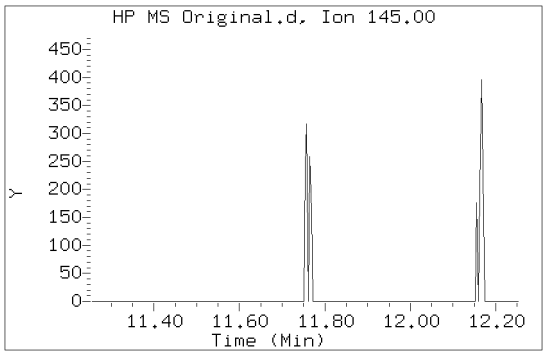
AFTER

MASS
182
AREA
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HEIGHT
0
11-Mar-2024
18:39
ALSHS
Ser



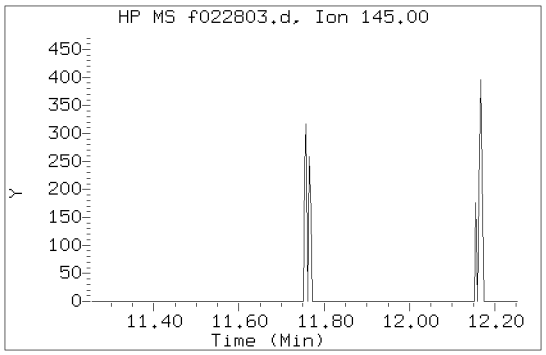
BEFORE

MASS
145
AREA
0
HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



AFTER

MASS
145
AREA
0
HEIGHT
0
11-Mar-2024
18:39
ALSHS
Ser



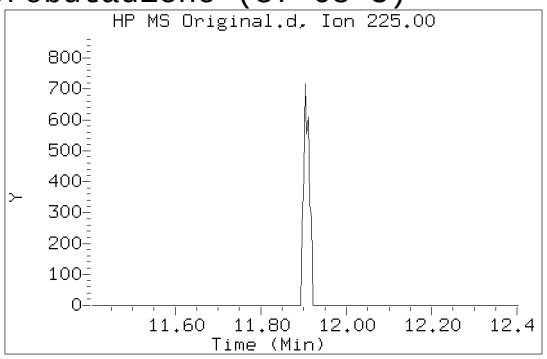
Data File : \\nahstws005\target\chem\voa10.i\g240228.b\f022803.d
Inj Date : 28-FEB-2024 17:30
InstruID : voa10.i
LabSampID : VSTD00.5

Hexachlorobutadiene (87-68-3)

Reason Code:

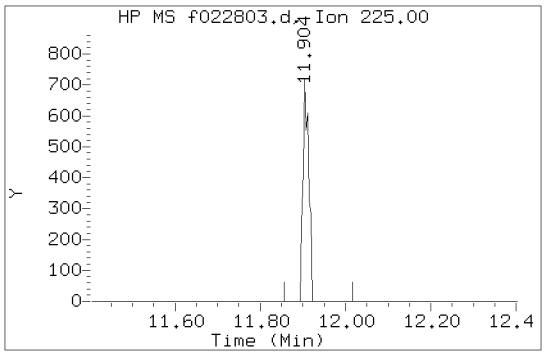
BEFORE

MASS
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AREA
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HEIGHT
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28-Feb-2024
17:46
ALSHS
Server



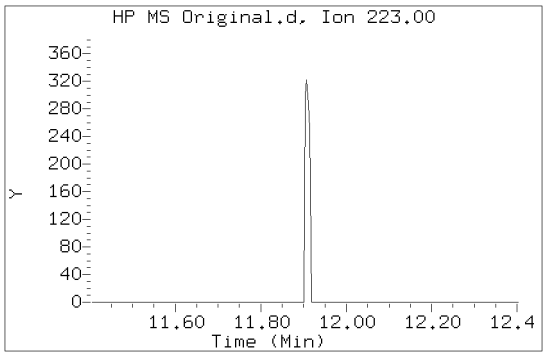
AFTER

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225
AREA
710
HEIGHT
717
11-Mar-2024
18:39
ALSHS
Ser



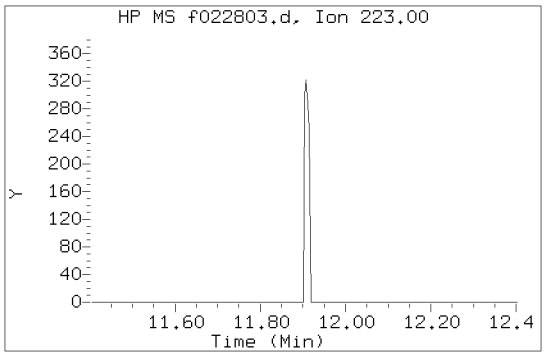
BEFORE

MASS
223
AREA
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HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



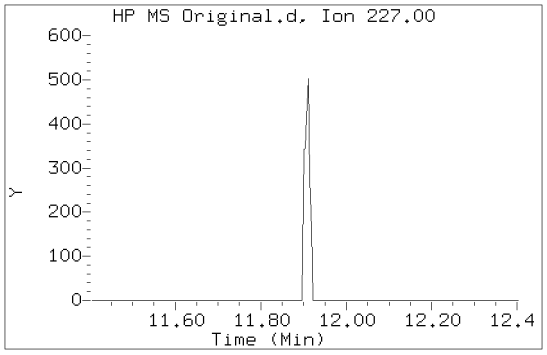
AFTER

MASS
223
AREA
0
HEIGHT
0
11-Mar-2024
18:39
ALSHS
Ser



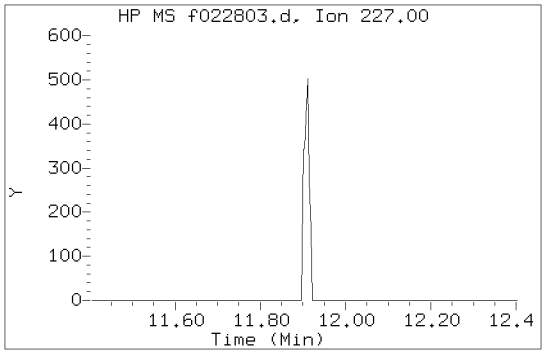
BEFORE

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227
AREA
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HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



AFTER

MASS
227
AREA
0
HEIGHT
0
11-Mar-2024
18:39
ALSHS
Ser

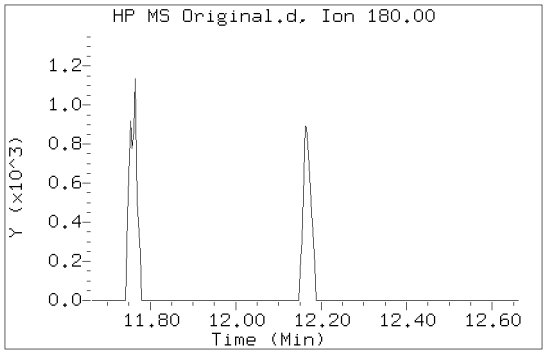


1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

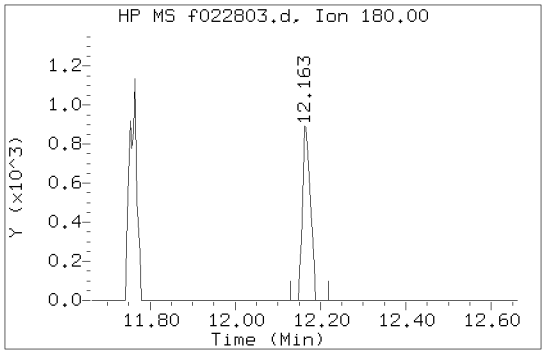
BEFORE

MASS
180
AREA
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HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



AFTER

MASS
180
AREA
1193
HEIGHT
894
11-Mar-2024
18:39
ALSHS
Ser



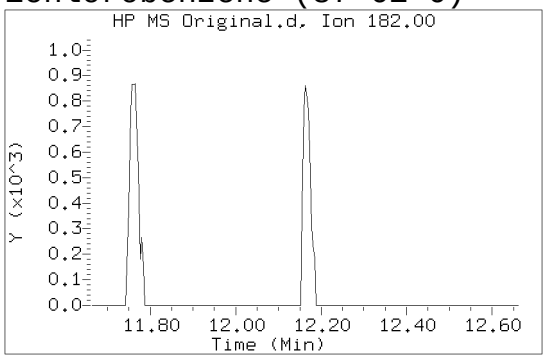
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Inj Date : 28-FEB-2024 17:30
InstruID : voa10.i
LabSampID : VSTD00.5

1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

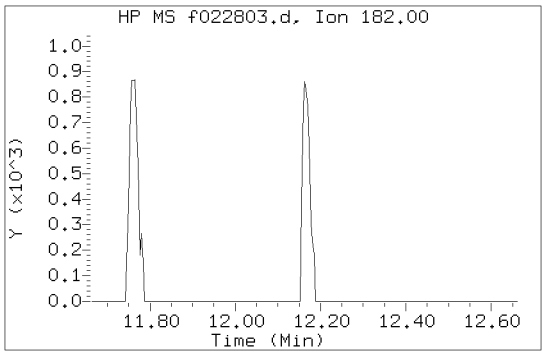
BEFORE

MASS
182
AREA
0
HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



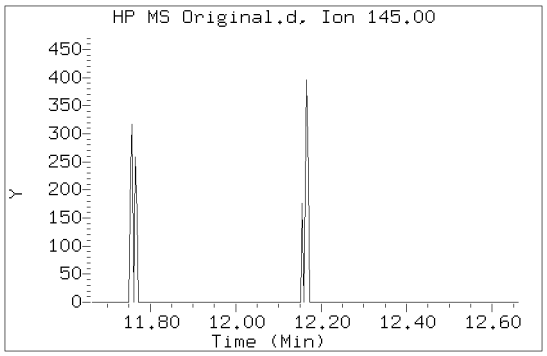
AFTER

MASS
182
AREA
0
HEIGHT
0
11-Mar-2024
18:39
ALSHS
Ser



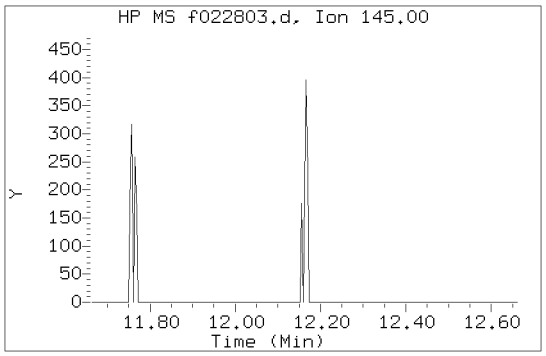
BEFORE

MASS
145
AREA
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HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



AFTER

MASS
145
AREA
0
HEIGHT
0
11-Mar-2024
18:39
ALSHS
Ser

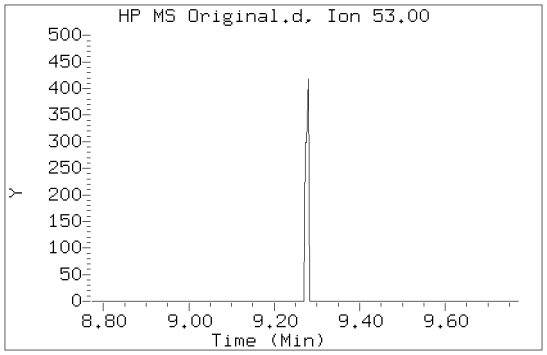


trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

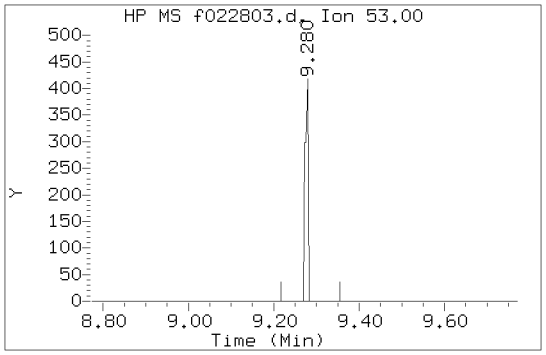
BEFORE

MASS
53
AREA
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HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



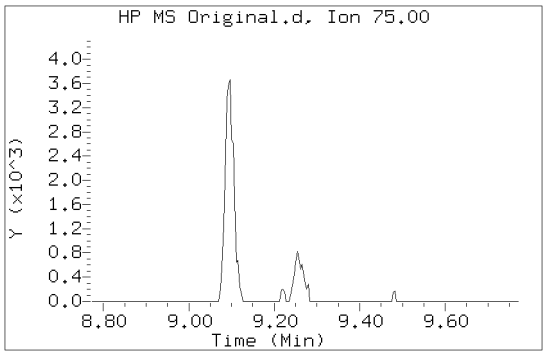
AFTER

MASS
53
AREA
228
HEIGHT
418
11-Mar-2024
18:39
ALSHS
Ser



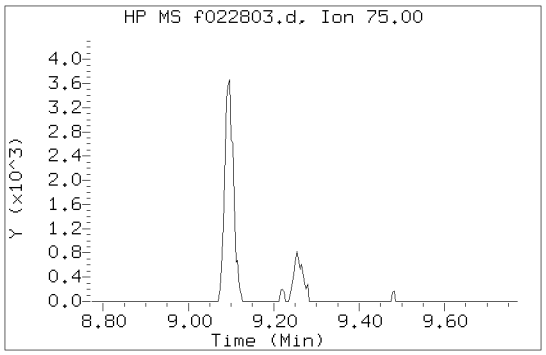
BEFORE

MASS
75
AREA
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HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



AFTER

MASS
75
AREA
0
HEIGHT
0
11-Mar-2024
18:39
ALSHS
Ser



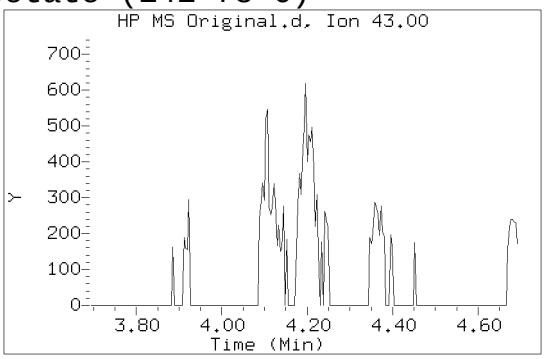
Data File : \\nahstws005\target\chem\voa10.i\g240228.b\f022803.d
Inj Date : 28-FEB-2024 17:30
InstruID : voa10.i
LabSampID : VSTD00.5

Ethyl Acetate (141-78-6)

Reason Code:

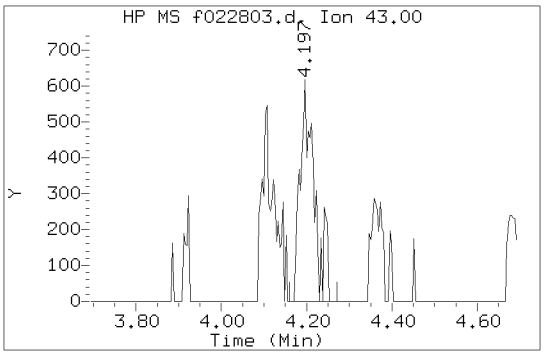
BEFORE

MASS
43
AREA
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HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



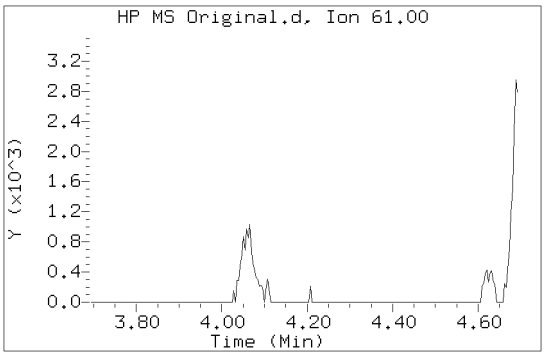
AFTER

MASS
43
AREA
1451
HEIGHT
618
11-Mar-2024
18:39
ALSHS
Ser



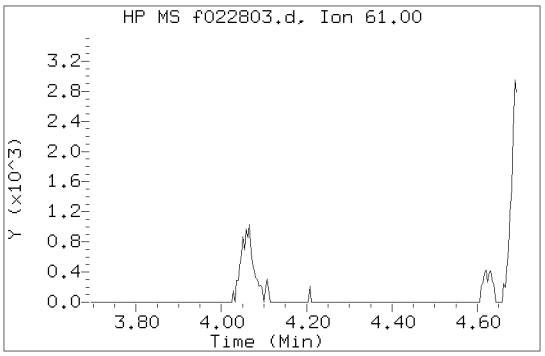
BEFORE

MASS
61
AREA
0
HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



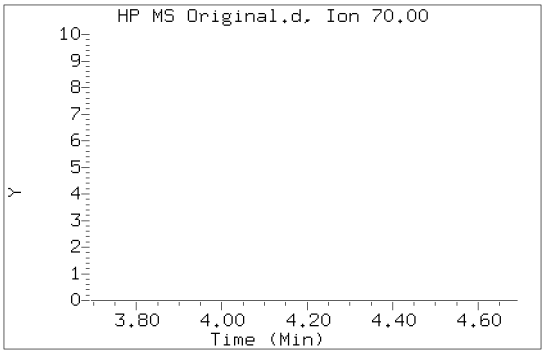
AFTER

MASS
61
AREA
0
HEIGHT
0
11-Mar-2024
18:39
ALSHS
Ser



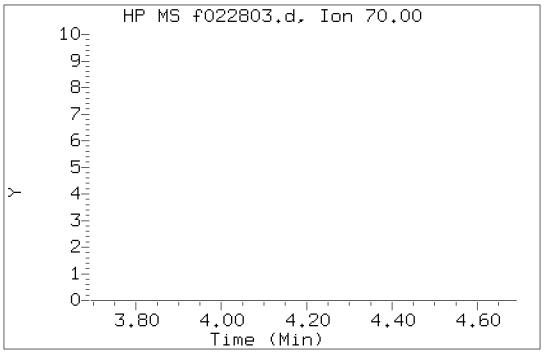
BEFORE

MASS
70
AREA
0
HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



AFTER

MASS
70
AREA
0
HEIGHT
0
11-Mar-2024
18:39
ALSHS
Ser

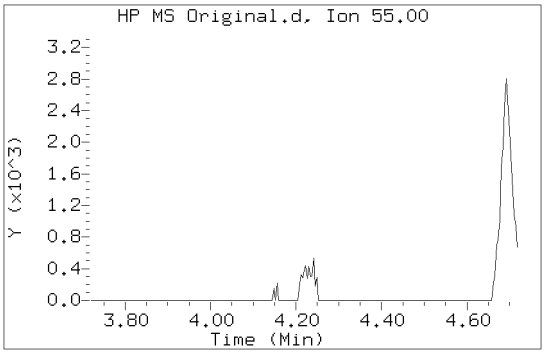


Methyl Acrylate (96-33-3)

Reason Code:

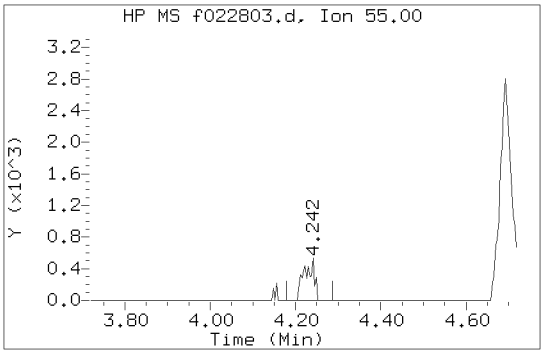
BEFORE

MASS
55
AREA
0
HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



AFTER

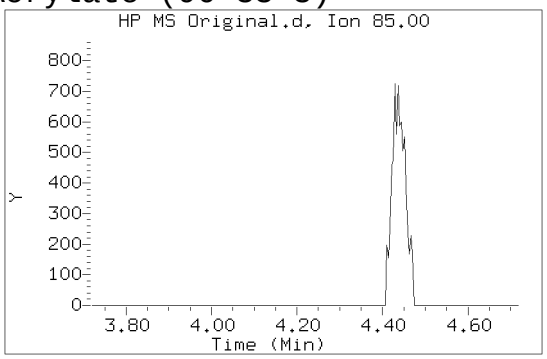
MASS
55
AREA
890
HEIGHT
532
11-Mar-2024
18:39
ALSHS
Ser



Data File : \\nahstws005\target\chem\voa10.i\g240228.b\f022803.d
Inj Date : 28-FEB-2024 17:30
InstruID : voa10.i
LabSampID : VSTD00.5

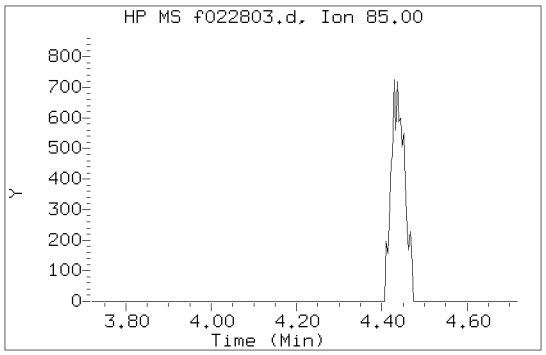
Methyl Acrylate (96-33-3)

BEFORE
MASS
85
AREA
0
HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



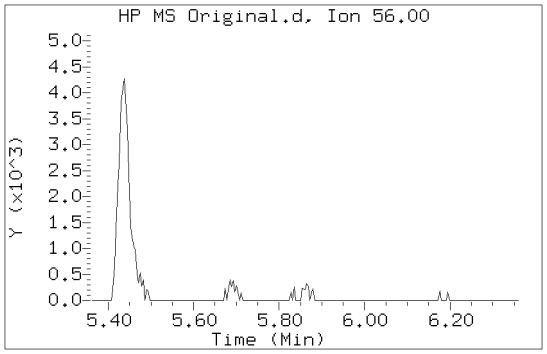
Reason Code:

AFTER
MASS
85
AREA
0
HEIGHT
0
11-Mar-2024
18:39
ALSHS
Ser



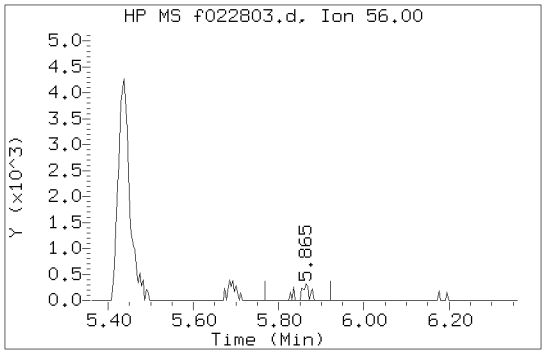
n-Butanol (71-36-3)

BEFORE
MASS
56
AREA
0
HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server

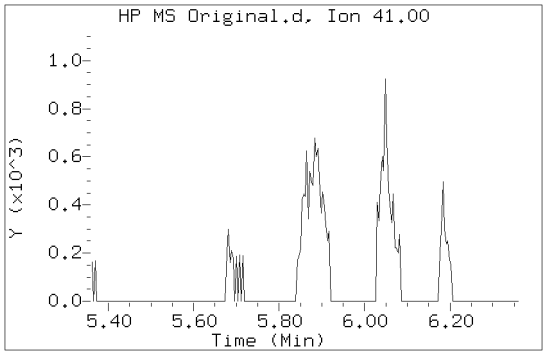


Reason Code:

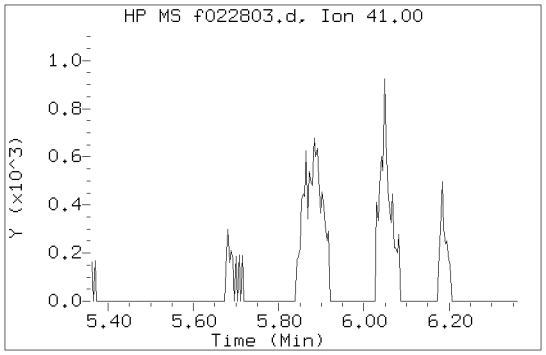
AFTER
MASS
56
AREA
461
HEIGHT
327
11-Mar-2024
18:39
ALSHS
Ser



BEFORE
MASS
41
AREA
0
HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server

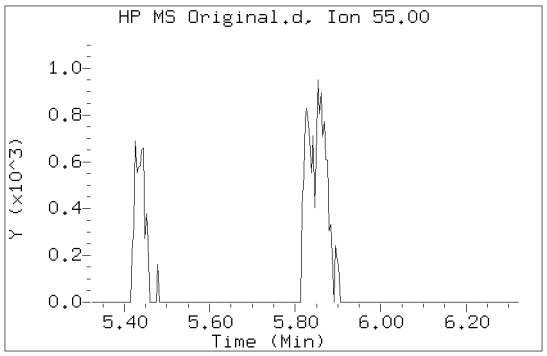


AFTER
MASS
41
AREA
0
HEIGHT
0
11-Mar-2024
18:39
ALSHS
Ser



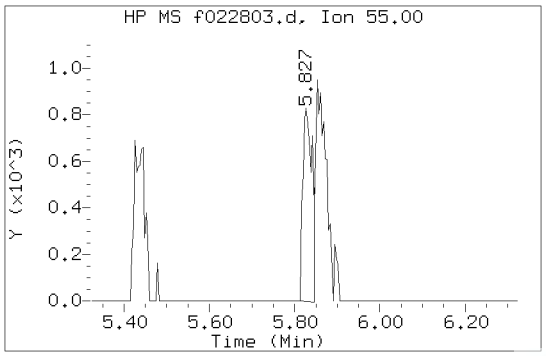
Ethyl Acrylate (140-88-5)

BEFORE
MASS
55
AREA
0
HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



Reason Code:

AFTER
MASS
55
AREA
1284
HEIGHT
832
11-Mar-2024
18:39
ALSHS
Ser



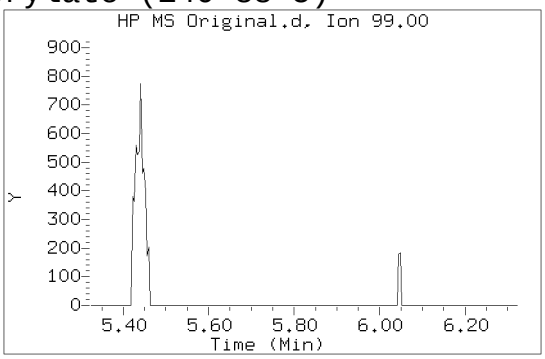
Data File : \\nahstws005\target\chem\voa10.i\g240228.b\f022803.d
Inj Date : 28-FEB-2024 17:30
InstruID : voa10.i
LabSampID : VSTD00.5

Ethyl Acrylate (140-88-5)

Reason Code:

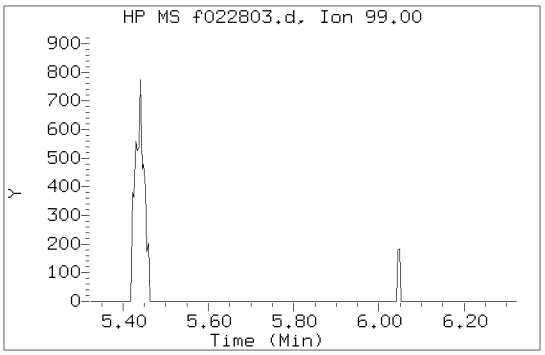
BEFORE

MASS
99
AREA
0
HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



AFTER

MASS
99
AREA
0
HEIGHT
0
11-Mar-2024
18:39
ALSHS
Ser

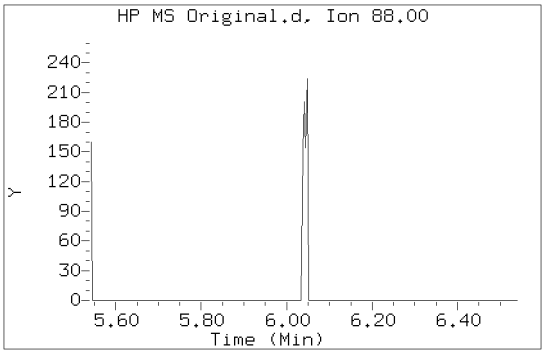


1,4-Dioxane ()

Reason Code:

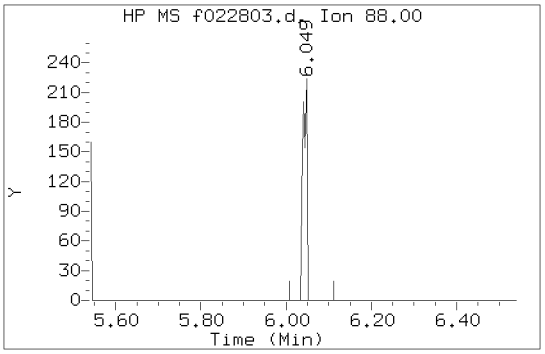
BEFORE

MASS
88
AREA
0
HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



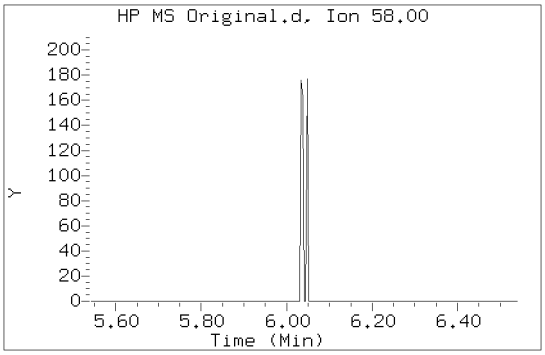
AFTER

MASS
88
AREA
164
HEIGHT
224
11-Mar-2024
18:39
ALSHS
Ser



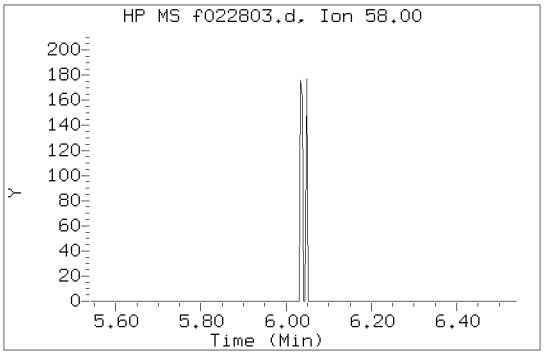
BEFORE

MASS
58
AREA
0
HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



AFTER

MASS
58
AREA
0
HEIGHT
0
11-Mar-2024
18:39
ALSHS
Ser

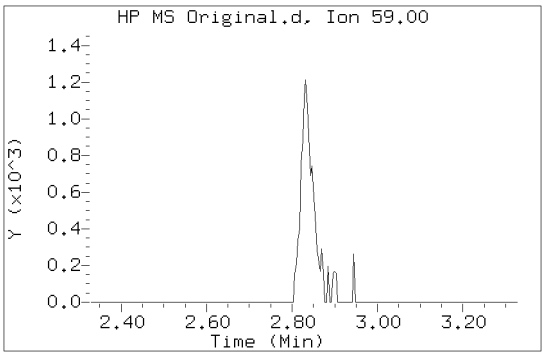


Diethyl ether (60-29-7)

Reason Code:

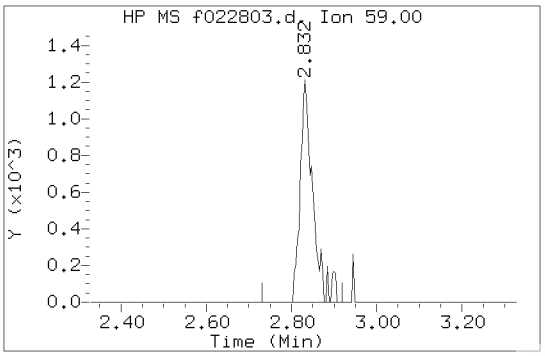
BEFORE

MASS
59
AREA
0
HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



AFTER

MASS
59
AREA
2549
HEIGHT
1212
11-Mar-2024
18:39
ALSHS
Ser

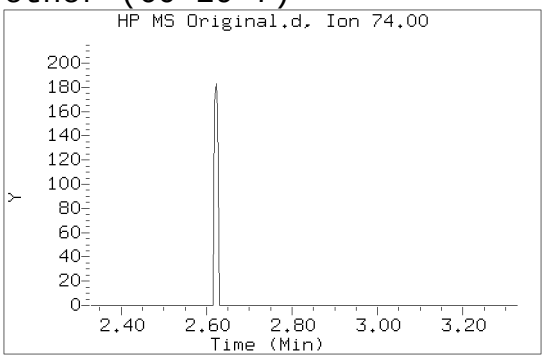


Data File : \\nahstws005\target\chem\voa10.i\g240228.b\f022803.d
Inj Date : 28-FEB-2024 17:30
InstruID : voa10.i
LabSampID : VSTD00.5

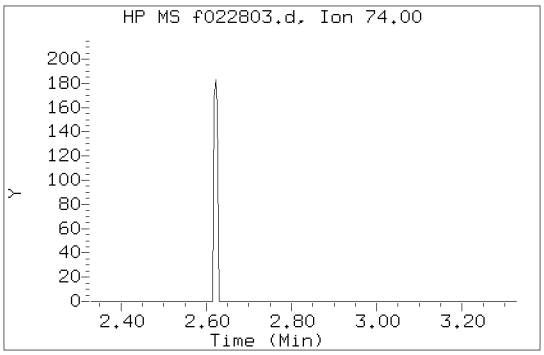
Diethyl ether (60-29-7)

Reason Code:

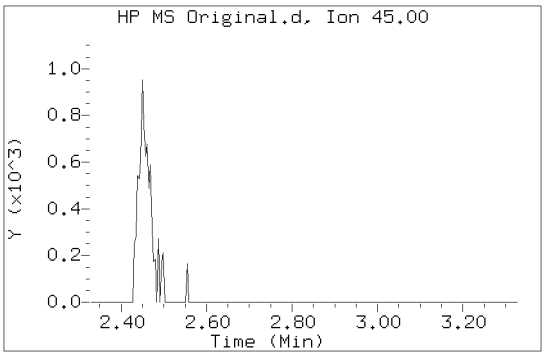
BEFORE
MASS
74
AREA
0
HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



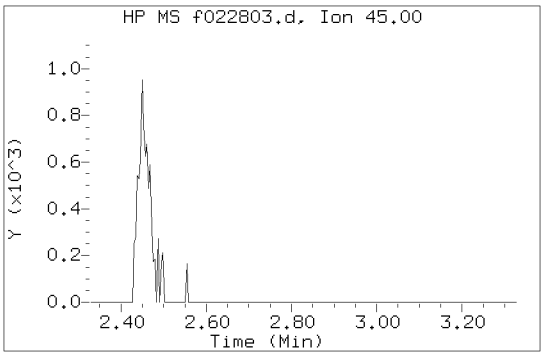
AFTER
MASS
74
AREA
0
HEIGHT
0
11-Mar-2024
18:39
ALSHS
Ser



BEFORE
MASS
45
AREA
0
HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



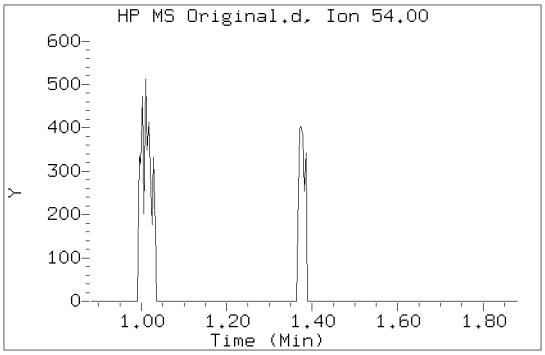
AFTER
MASS
45
AREA
0
HEIGHT
0
11-Mar-2024
18:39
ALSHS
Ser



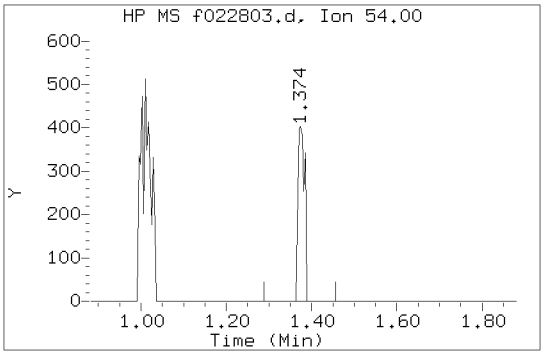
1,3-Butadiene (106-99-0)

Reason Code:

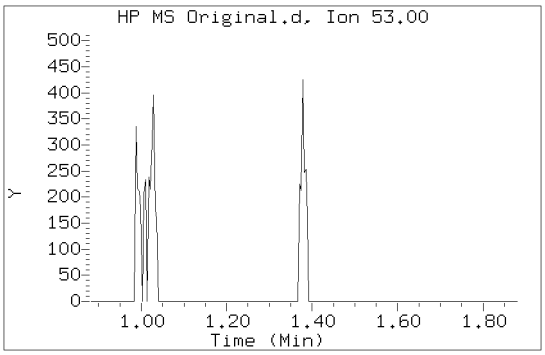
BEFORE
MASS
54
AREA
0
HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



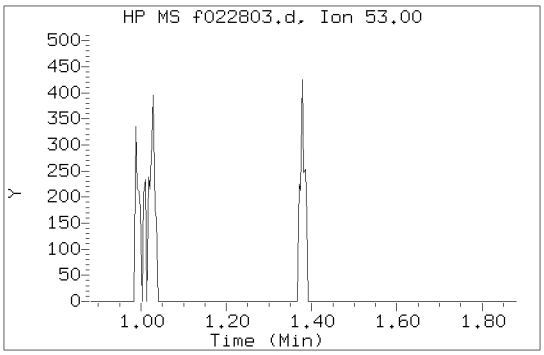
AFTER
MASS
54
AREA
439
HEIGHT
403
11-Mar-2024
18:39
ALSHS
Ser



BEFORE
MASS
53
AREA
0
HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



AFTER
MASS
53
AREA
0
HEIGHT
0
11-Mar-2024
18:39
ALSHS
Ser



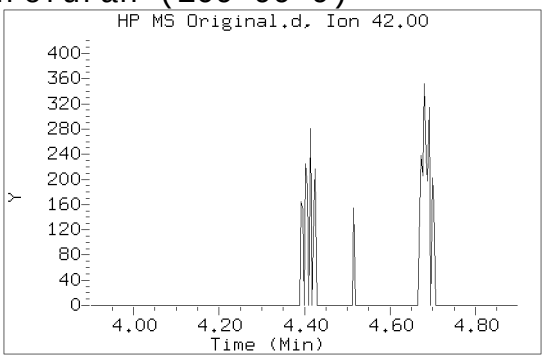
Data File : \\nahstws005\target\chem\voa10.i\g240228.b\f022803.d
Inj Date : 28-FEB-2024 17:30
InstruID : voa10.i
LabSampID : VSTD00.5

Tetrahydrofuran (109-99-9)

Reason Code:

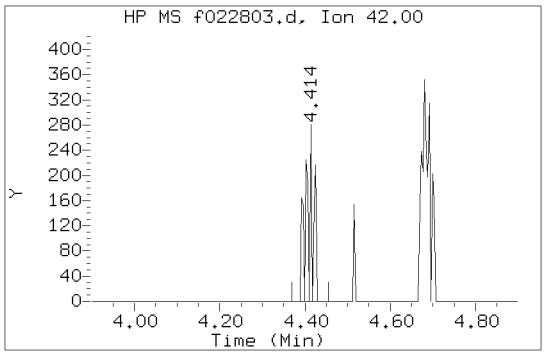
BEFORE

MASS
42
AREA
0
HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



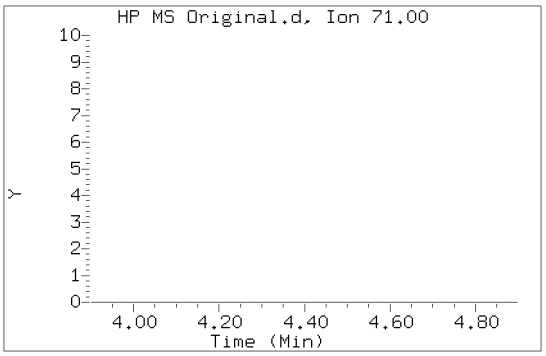
AFTER

MASS
42
AREA
310
HEIGHT
281
11-Mar-2024
18:39
ALSHS
Ser



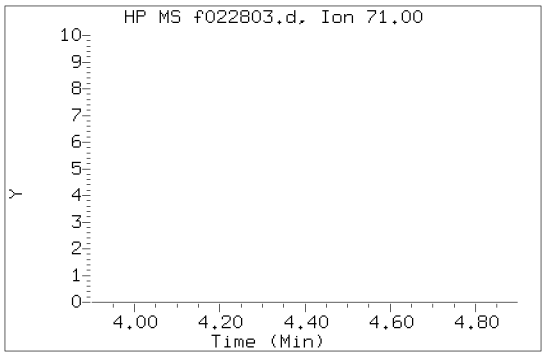
BEFORE

MASS
71
AREA
0
HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



AFTER

MASS
71
AREA
0
HEIGHT
0
11-Mar-2024
18:39
ALSHS
Ser

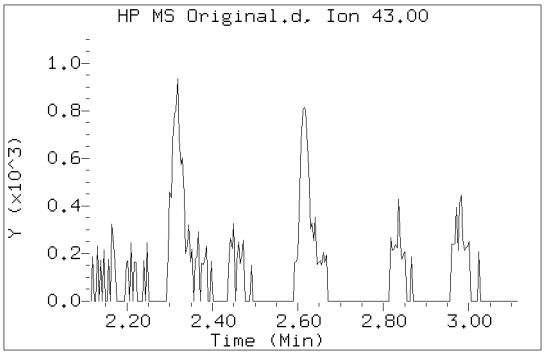


Methyl Acetate (79-20-9)

Reason Code:

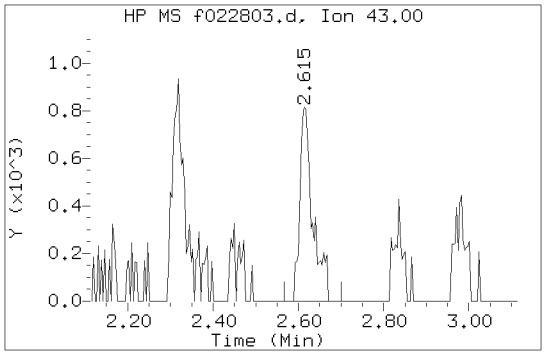
BEFORE

MASS
43
AREA
0
HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



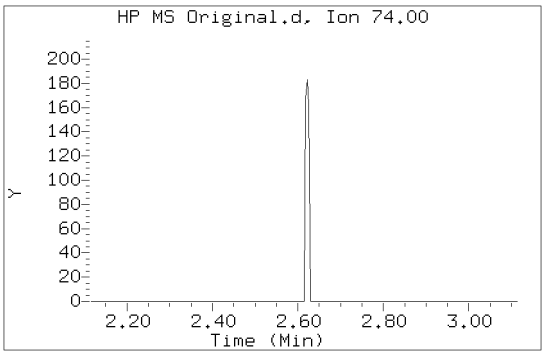
AFTER

MASS
43
AREA
1739
HEIGHT
815
11-Mar-2024
18:39
ALSHS
Ser



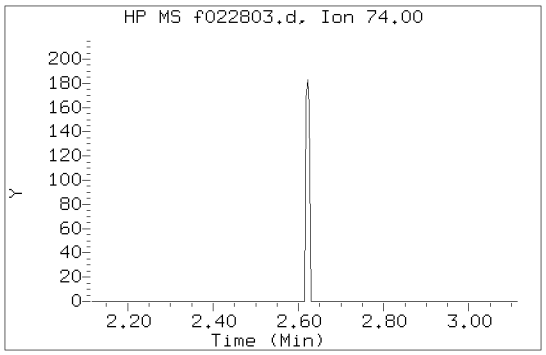
BEFORE

MASS
74
AREA
0
HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



AFTER

MASS
74
AREA
0
HEIGHT
0
11-Mar-2024
18:39
ALSHS
Ser



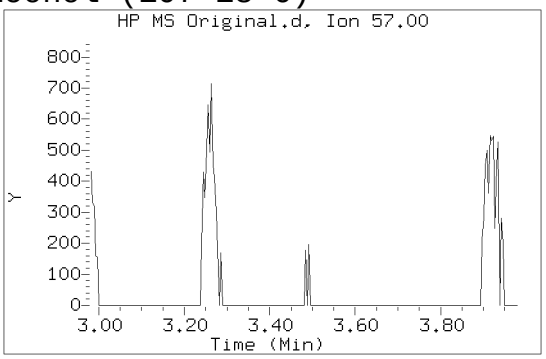
Data File : \\nahstws005\target\chem\voa10.i\g240228.b\f022803.d
Inj Date : 28-FEB-2024 17:30
InstruID : voa10.i
LabSampID : VSTD00.5

Allyl alcohol (107-18-6)

Reason Code:

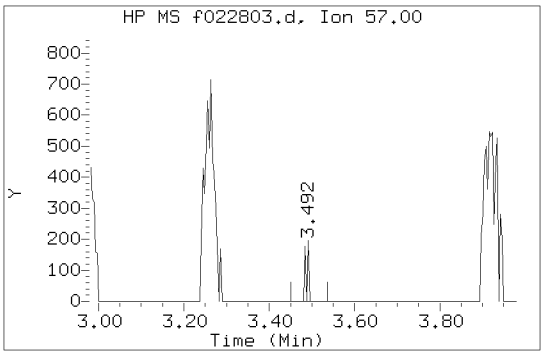
BEFORE

MASS
57
AREA
0
HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



AFTER

MASS
57
AREA
83
HEIGHT
196
11-Mar-2024
18:39
ALSHS
Ser

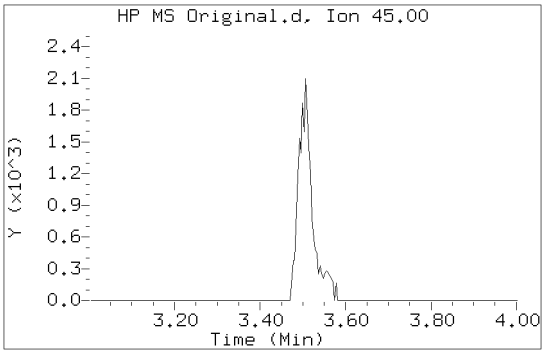


Diisopropyl ether (108-20-3)

Reason Code:

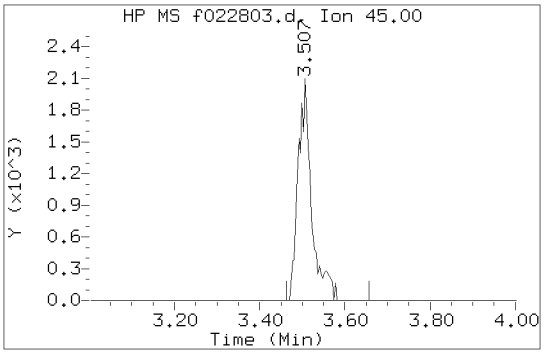
BEFORE

MASS
45
AREA
0
HEIGHT
0
28-Feb-2024
17:46
ALSHS
Server



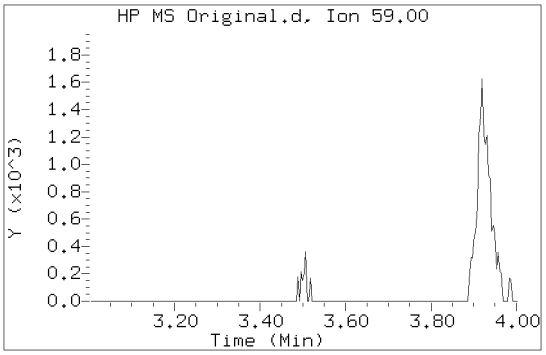
AFTER

MASS
45
AREA
4662
HEIGHT
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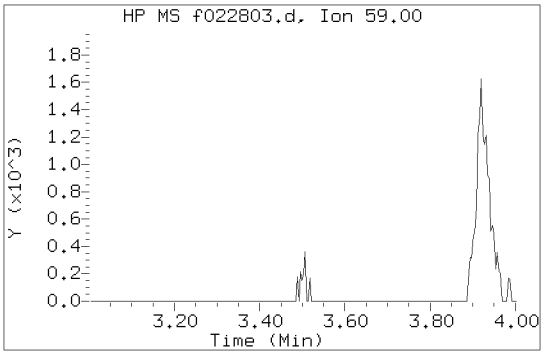
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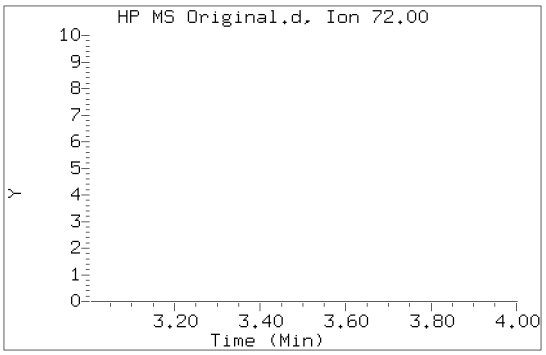
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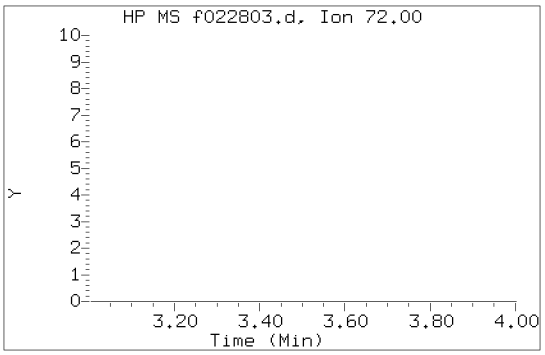
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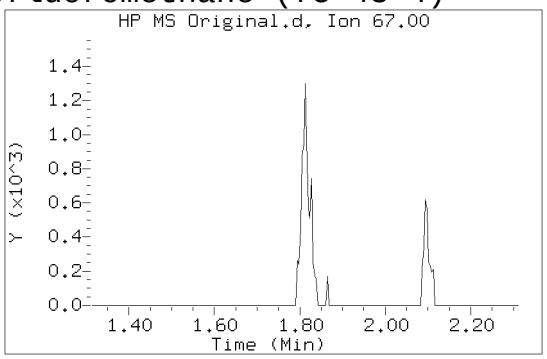


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LabSampID : VSTD00.5

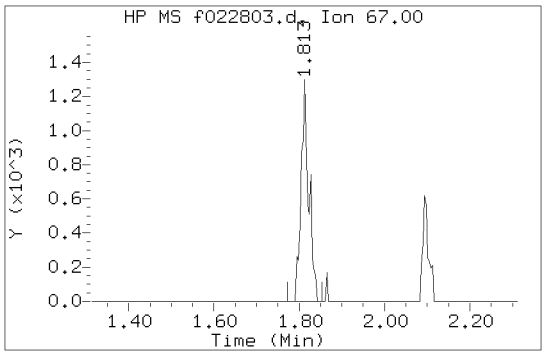
Dichlorofluoromethane (75-43-4)

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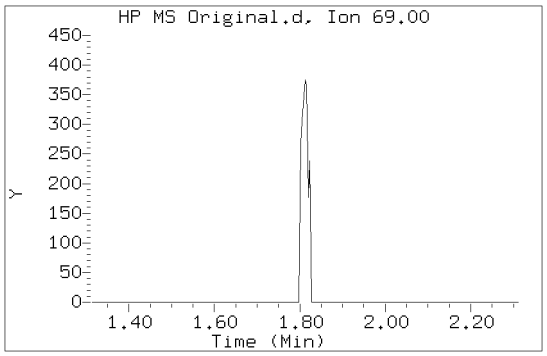
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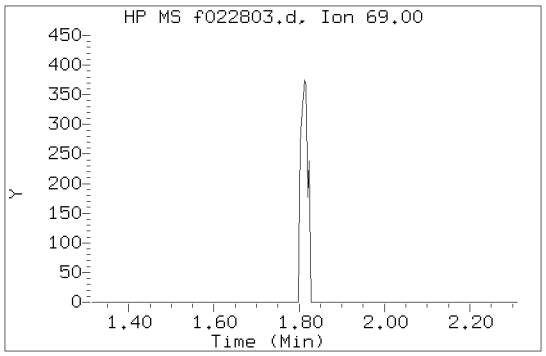
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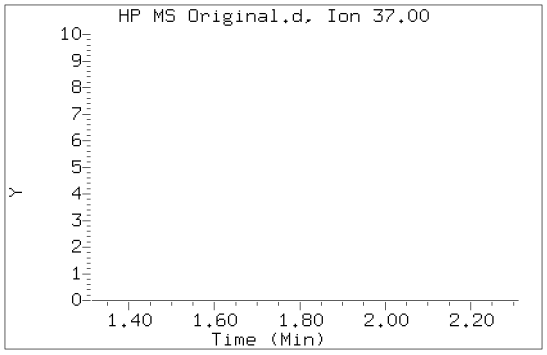
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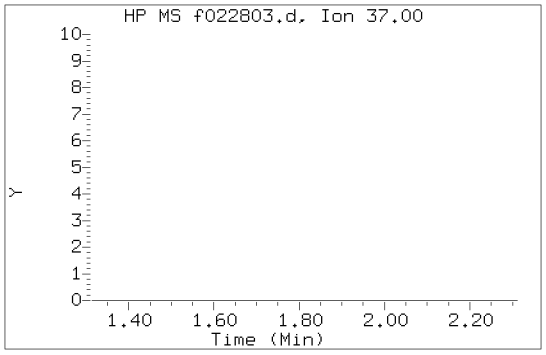
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BEFORE
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17:46
ALSHS
Server



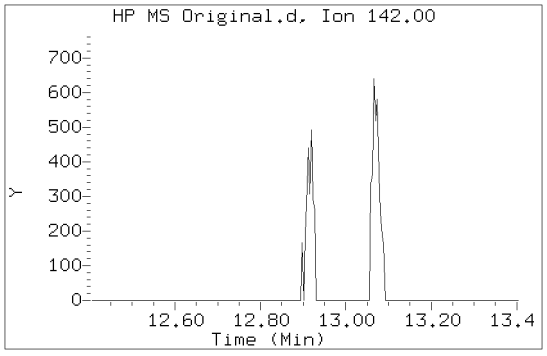
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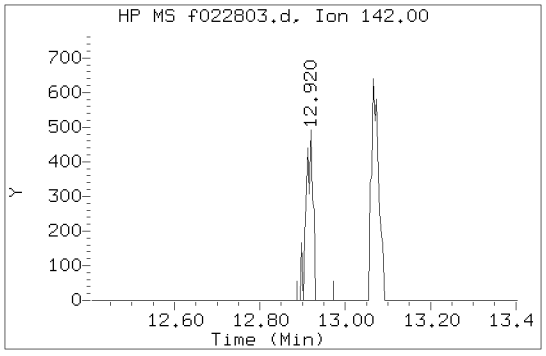
2-Methylnaphthalene (91-57-6)

Reason Code:

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AFTER
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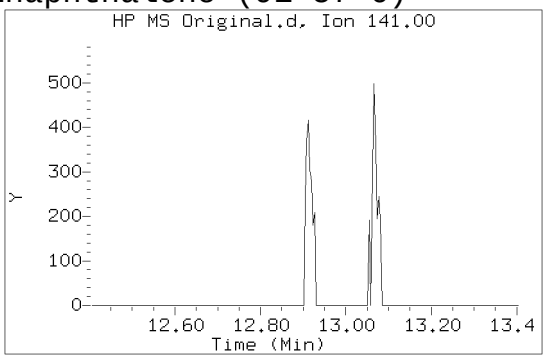


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Inj Date : 28-FEB-2024 17:30
InstruID : voa10.i
LabSampID : VSTD00.5

2-Methylnaphthalene (91-57-6)

BEFORE

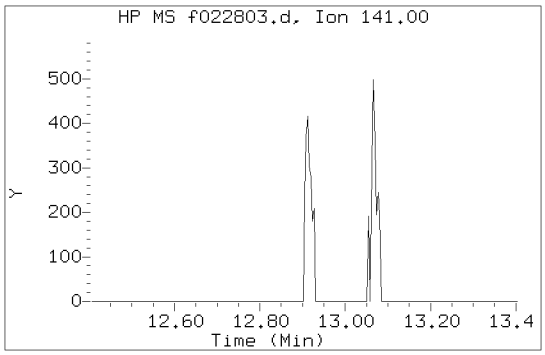
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Reason Code:

AFTER

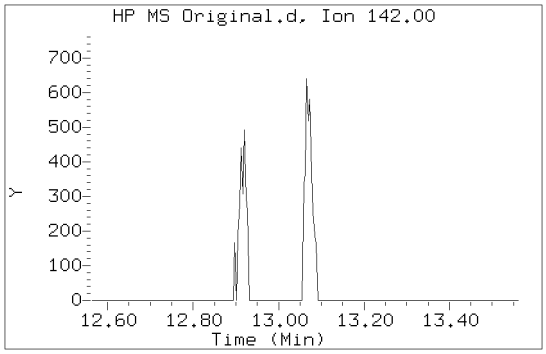
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1-Methylnaphthalene (90-12-0)

BEFORE

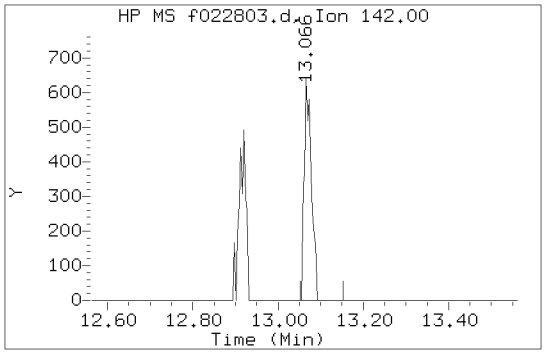
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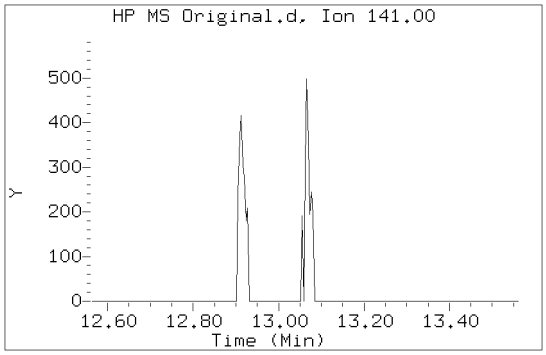
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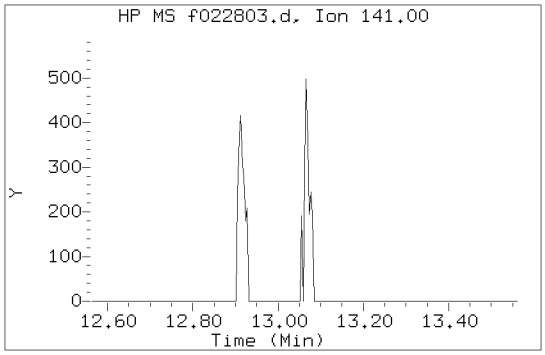
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AFTER

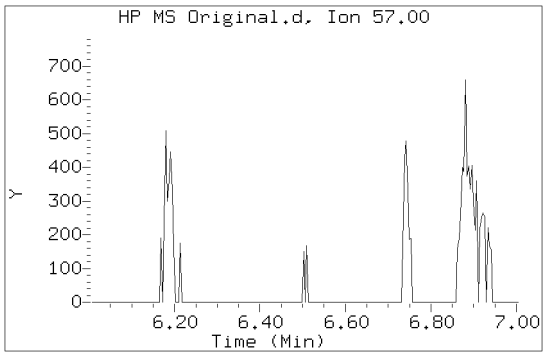
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18:39
ALSHS
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Epichlorohydrin (106-89-8)

BEFORE

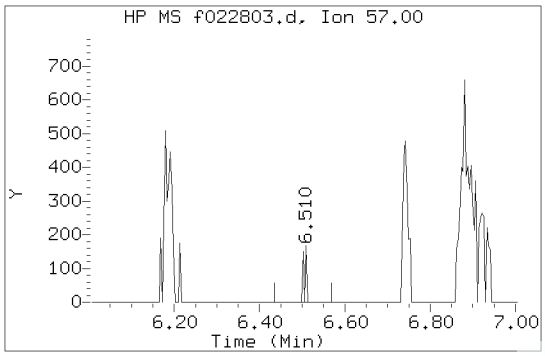
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AFTER

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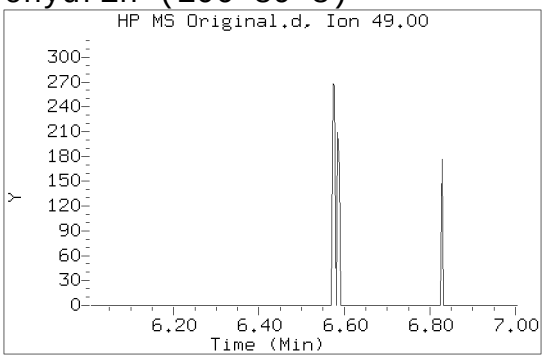


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LabSampID : VSTD00.5

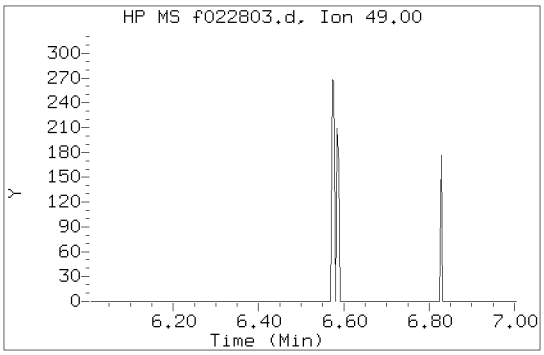
Epichlorohydrin (106-89-8)

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17:46
ALSHS
Server



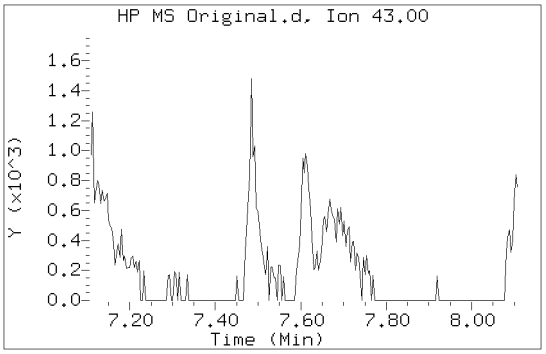
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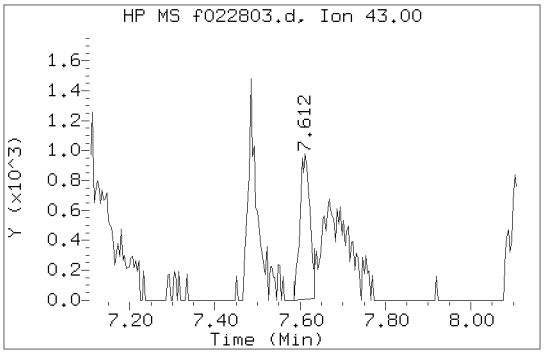
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Reason Code:

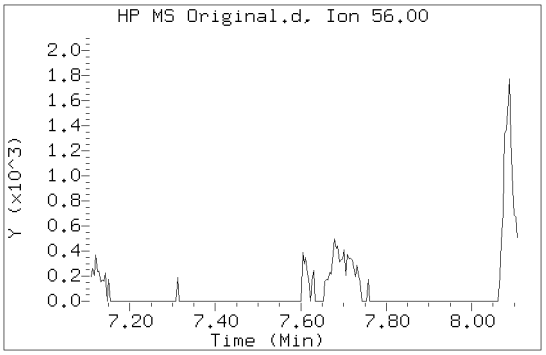
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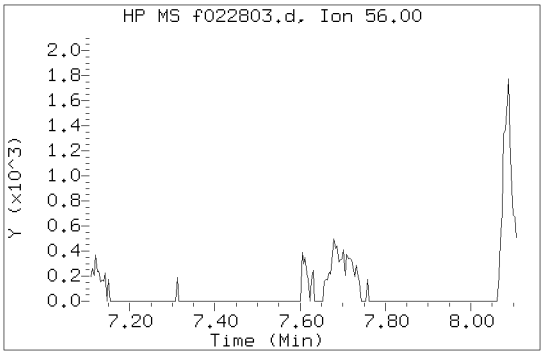
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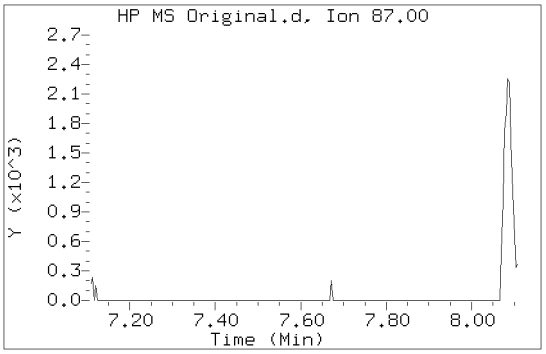
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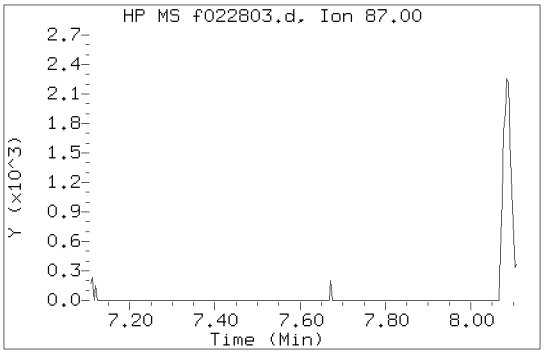
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BEFORE
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AFTER
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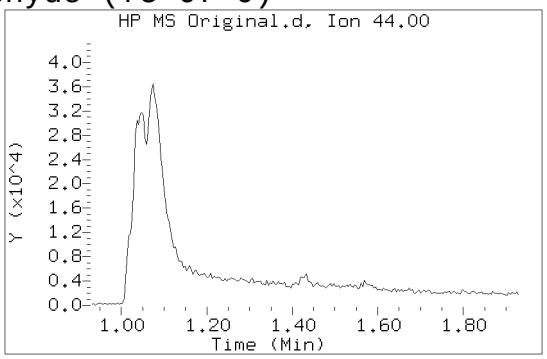


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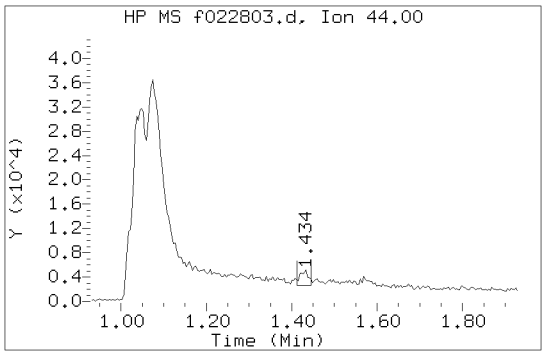
Acetaldehyde (75-07-0)

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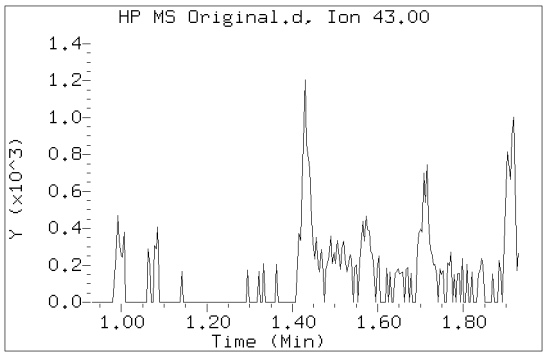
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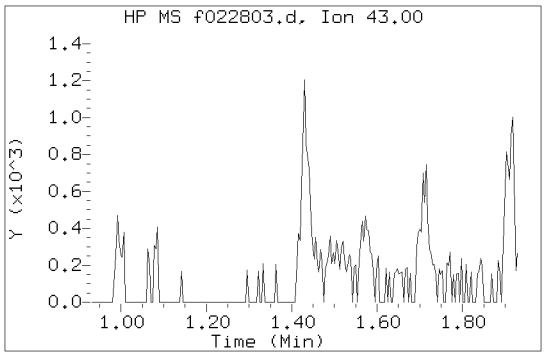
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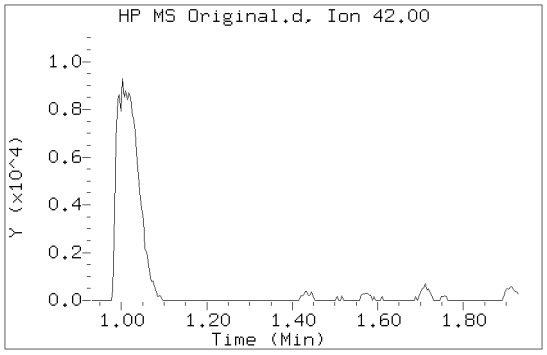
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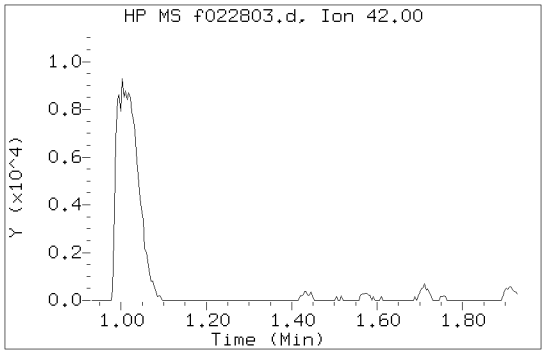
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BEFORE
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28-Feb-2024
17:46
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AFTER
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11-Mar-2024
18:39
ALSHS
Ser



Data File: \\NAHSTWS005\Target\chem\voa10.i\G240228.b\F022804.D Page 1
Report Date: 11-Mar-2024 13:59

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa10.i\G240228.b\F022804.D
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Inj Date : 28-FEB-2024 17:51
Operator : FT Inst ID: voa10.i
Smp Info : VSTD001;VSTD001;1;3;;
Misc Info : V10;WATER;0;1;
Comment :
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Meth Date : 11-Mar-2024 13:59 voa10.i Quant Type: ISTD
Cal Date : 28-FEB-2024 17:30 Cal File: F022803.D
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 01_STD_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.691	4.691	(1.000)	228027	50.0000	
2	Dichlorodifluoromethane	85	1.149	1.149	(0.245)	2234	1.00000	1.13(aM)
3	Chloromethane	50	1.276	1.276	(0.272)	4962	1.00000	1.19(a)
4	Propionitrile	54	4.151	4.151	(0.885)	3292	10.0000	12.46(aM)
5	Vinyl Chloride	62	1.359	1.359	(0.290)	3227	1.00000	1.19(a)
6	Bromomethane	94	1.587	1.587	(0.338)	1254	1.00000	0.32(a)
7	Chloroethane	64	1.666	1.666	(0.355)	1849	1.00000	1.15(aM)
8	Trichlorofluoromethane	101	1.853	1.853	(0.395)	2836	1.00000	1.05(a)
9	Acrolein	56	3.165	3.165	(0.675)	1341	2.00000	1.95(a)
10	Acetone	43	2.318	2.318	(0.494)	2956	2.00000	3.41(aM)
11	1,1-Dichloroethene	96	2.269	2.269	(0.484)	1825	1.00000	1.11(a)
12	Isobutyl Alcohol	43	5.171	5.171	(1.102)	6477	20.0000	20.60
13	Acetonitrile	39	2.588	2.588	(0.552)	4595	10.0000	28.47(M)
14	Allyl Chloride	41	2.581	2.581	(0.550)	5795	1.00000	0.28(a)
15	Iodomethane	142	2.397	2.397	(0.511)	1906	2.00000	5.05(T)
16	Acrylonitrile	53	2.941	2.941	(0.627)	1829	2.00000	(aM)
17	Methylene Chloride	84	2.704	2.704	(0.577)	3050	1.00000	1.18(aM)
18	Methyl tert-butyl ether	73	2.978	2.978	(0.635)	7259	1.00000	1.32(M)
19	Carbon Disulfide	76	2.453	2.453	(0.523)	13737	2.00000	4.00(aM)
20	trans-1,2-Dichloroethene	96	2.967	2.967	(0.632)	2309	1.00000	1.19(aM)

21 Vinyl Acetate	43	3.503	3.503 (0.747)	11108	2.00000	2.39(aM)
22 1,1-Dichloroethane	63	3.387	3.387 (0.722)	4553	1.00000	1.15(Ta)

Data File: \\NAHSTWS005\Target\chem\voa10.i\G240228.b\F022804.D Page 2
Report Date: 11-Mar-2024 13:59

			QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	24	2-Butanone	43	4.106	4.106	(0.875)	2068	2.00000	4.05(aM)
	25	Methacrylonitrile	41	4.054	4.054	(0.864)	2602	1.00000	(a)
	26	2,2-Dichloropropane	77	4.054	4.054	(0.864)	2923	1.00000	1.08(aM)
	27	cis-1,2-Dichloroethene	96	4.058	4.058	(0.865)	2525	1.00000	1.18(a)
	28	Chloroform	83	4.432	4.432	(0.945)	4368	1.00000	0.45(a)
	29	Bromochloromethane	128	4.328	4.328	(0.922)	920	1.00000	1.06(a)
$	30	Dibromofluoromethane	113	4.605	4.605	(0.982)	2668	1.00000	1.51(a)
	31	1,1,1-Trichloroethane	97	4.624	4.624	(0.986)	3312	1.00000	1.14(a)
	32	1,1-Dichloropropene	75	4.800	4.800	(0.883)	3722	1.00000	1.23(a)
	33	1,2-Dichloroethane	62	5.040	5.040	(0.927)	3217	1.00000	1.08(a)
	34	Carbon Tetrachloride	117	4.804	4.804	(0.883)	3039	1.00000	0.75(a)
$	35	1,2-Dichloroethane-d4	65	4.965	4.965	(1.058)	3782	1.00000	1.21(Ta)
*	36	1,4-Difluorobenzene	114	5.437	5.437	(1.000)	342738	50.0000	
	37	Benzene	78	5.017	5.017	(0.923)	10523	1.00000	1.15
	38	Trichloroethene	130	5.685	5.685	(1.046)	2234	1.00000	1.09(a)
	39	Bromodichloromethane	83	6.161	6.161	(1.133)	2814	1.00000	1.04(aM)
	40	Methyl Methacrylate	41	6.041	6.041	(1.288)	2433	1.00000	1.06(M)
	42	1,2-Dichloropropane	63	5.891	5.891	(1.083)	2789	1.00000	1.13(a)
	43	2-Nitropropane	43	6.386	6.386	(1.361)	486	1.00000	1.97(aM)
	44	Dibromomethane	93	6.003	6.003	(1.104)	1188	1.00000	1.09(a)
	45	4-Methyl-2-Pentanone	43	6.742	6.742	(0.834)	4319	2.00000	3.37(a)
	46	cis-1,3-Dichloropropene	75	6.580	6.580	(1.210)	3022	1.00000	0.98(a)
*	47	Chlorobenzene-d5	117	8.087	8.087	(1.000)	283906	50.0000	
$	48	Toluene-d8	98	6.820	6.820	(0.843)	17255	1.00000	1.21(a)
	49	Ethyl Methacrylate	69	7.101	7.101	(1.306)	1934	1.00000	0.28(aM)
	50	Toluene	91	6.880	6.880	(0.851)	10258	1.00000	1.17
	51	trans-1,3-Dichloropropene	75	7.090	7.090	(1.304)	2272	1.00000	0.96(a)
	52	2-Hexanone	43	7.484	7.484	(0.925)	3293	2.00000	2.15(a)
	53	1,1,2-Trichloroethane	83	7.240	7.240	(0.895)	1601	1.00000	1.07(a)
	54	1,3-Dichloropropane	76	7.386	7.386	(0.913)	3673	1.00000	1.12(a)
	55	Dibromochloromethane	129	7.585	7.585	(0.938)	1845	1.00000	1.04(a)
	56	Tetrachloroethene	164	7.368	7.368	(0.911)	1731	1.00000	1.13(a)
	57	1,2-Dibromoethane	107	7.679	7.679	(0.949)	1758	1.00000	1.07(a)
	58	1-Chlorohexane	55	8.095	8.095	(1.489)	5612	1.00000	1.99(a)
	59	Chlorobenzene	112	8.110	8.110	(1.003)	6118	1.00000	1.18(a)
	60	1,1,1,2-Tetrachloroethane	131	8.189	8.189	(1.013)	2039	1.00000	1.14(a)
	61	Ethylbenzene	106	8.211	8.211	(1.015)	2830	1.00000	1.08
	62	m,p-Xylenes	106	8.316	8.316	(1.028)	7743	2.00000	2.31
	63	o-Xylene	106	8.657	8.657	(1.070)	3622	1.00000	1.12
	64	Styrene	104	8.668	8.668	(1.072)	4935	1.00000	0.94(a)
	66	Bromoform	173	8.811	8.811	(1.089)	1240	1.00000	1.04(Ta)
	67	Isopropylbenzene	105	8.972	8.972	(1.109)	9079	1.00000	1.11(a)
	68	1,1,2,2-Tetrachloroethane	83	9.219	9.219	(0.916)	2537	1.00000	1.16(aM)
$	69	4-Bromofluorobenzene	95	9.096	9.096	(1.125)	9262	1.00000	1.05(a)
*	70	1,4-Dichlorobenzene-d4	152	10.070	10.070	(1.000)	143464	50.0000	
	71	1,2,3-Trichloropropane	75	9.257	9.257	(0.919)	2529	1.00000	1.88(a)
	72	trans-1,4-Dichloro-2-butene	53	9.272	9.272	(1.146)	651	1.00000	1.13
	73	n-Propylbenzene	91	9.321	9.321	(0.926)	10792	1.00000	1.20(a)
	74	Bromobenzene	156	9.216	9.216	(0.915)	2671	1.00000	1.27(a)
	75	1,3,5-Trimethylbenzene	105	9.474	9.474	(0.941)	7263	1.00000	1.16(a)
	76	2-Chlorotoluene	91	9.384	9.384	(0.932)	6852	1.00000	1.21(a)
	77	4-Chlorotoluene	91	9.482	9.482	(0.942)	7837	1.00000	1.20(a)

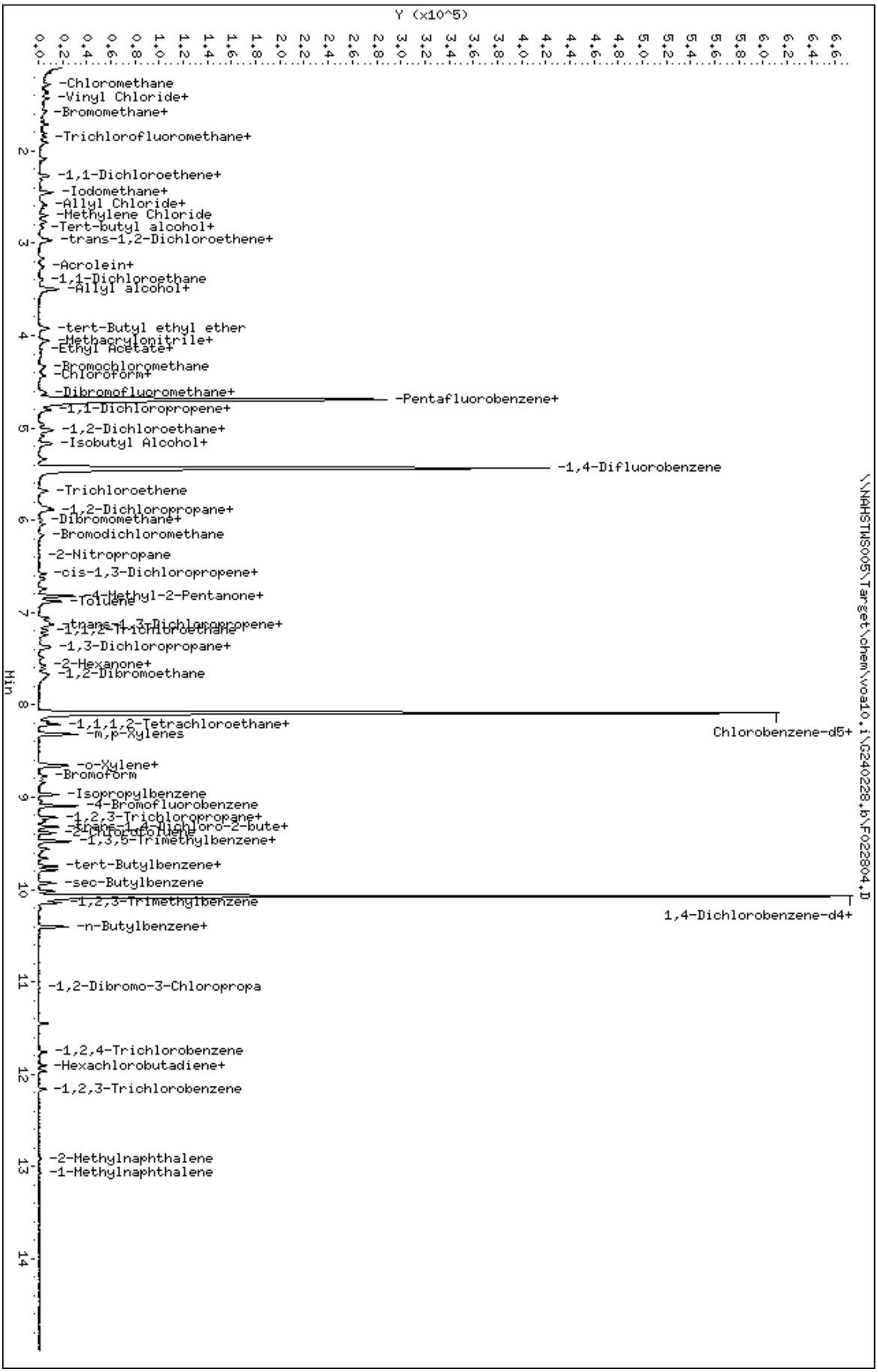
78	tert-Butylbenzene	119	9.748	9.748 (0.968)	6095	1.00000	1.17(a)
79	1,2,4-Trimethylbenzene	105	9.789	9.789 (0.972)	7287	1.00000	1.15(a)

Data File: \\NAHSTWS005\Target\chem\voa10.i\G240228.b\F022804.D Page 3
Report Date: 11-Mar-2024 13:59

						AMOUNTS	
		QUANT SIG				CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
	==========	====	====	========	========	========	=======	=======
	81 sec-Butylbenzene	105	9.932	9.932	(0.986)	8267	1.00000	1.16(a)
	82 p-Isopropyltoluene	119	10.059	10.059	(0.999)	6729	1.00000	1.11(a)
	83 1,3-Dichlorobenzene	146	10.018	10.018	(0.995)	4877	1.00000	1.28(a)
	84 1,4-Dichlorobenzene	146	10.089	10.089	(1.002)	5054	1.00000	1.24(a)
	87 n-Butylbenzene	91	10.400	10.400	(1.033)	6460	1.00000	1.09(a)
	88 1,2-Dichlorobenzene	146	10.404	10.404	(1.033)	4567	1.00000	1.21(a)
	89 1,2-Dibromo-3-Chloropropane	155	11.064	11.064	(1.099)	222	1.00000	1.39(aM)
	90 1,2,4-Trichlorobenzene	180	11.757	11.757	(1.168)	2156	1.00000	1.08(aM)
	91 Hexachlorobutadiene	225	11.911	11.911	(1.183)	1199	1.00000	1.92(a)
	92 Naphthalene	128	11.963	11.963	(1.188)	4459	1.00000	1.63(a)
	93 1,2,3-Trichlorobenzene	180	12.166	12.166	(1.208)	2157	1.00000	1.71(aM)
	135 1,4-Dioxane	88	6.044	6.044	(1.288)	188	20.0000	(aM)
	130 Ethyl Acetate	43	4.200	4.200	(0.895)	2566	1.00000	1.08(aM)
	136 n-Hexane	57	3.259	3.259	(0.695)	2246	1.00000	0.94(a)
	138 Freon TF	101	2.269	2.269	(0.484)	1833	1.00000	1.10(a)
	139 Diethyl ether	59	2.836	2.836	(0.604)	3227	1.00000	1.15(aM)
	141 Cyclohexane	56	4.687	4.687	(0.999)	8797	1.00000	1.04(a)
	142 Tetrahydrofuran	42	4.406	4.406	(0.939)	722	2.00000	2.29(aM)
	146 Methyl Acetate	43	2.614	2.614	(0.557)	3095	1.00000	1.11(aM)
	147 Methylcyclohexane	55	5.861	5.861	(1.078)	3651	1.00000	1.09(aM)
	148 Tert-butyl alcohol	59	2.836	2.836	(0.604)	2985	20.0000	46.16
	149 Isopropyl alcohol	45	2.449	2.449	(0.522)	2190	20.0000	28.47
	151 4-Methyl-2-pentanol	45	7.128	7.128	(1.311)	13443	20.0000	51.81(M)
	156 Diisopropyl ether	45	3.499	3.499	(0.746)	11717	1.00000	1.31(TaM)
	158 Dichlorofluoromethane	67	1.812	1.812	(0.386)	4013	1.00000	1.25(M)
	166 1,2,3-Trimethylbenzene	105	10.138	10.138	(1.007)	8238	1.00000	0.48(a)
	160 2-Methylnaphthalene	142	12.916	12.916	(1.283)	787	1.00000	2.56(a)
	180 1-Methylnaphthalene	142	13.069	13.069	(1.298)	903	1.00000	2.02(a)
	174 tert-Amyl methyl ether	73	5.171	5.171	(1.102)	6687	1.00000	1.16(a)
	175 tert-Butyl ethyl ether	59	3.923	3.923	(0.836)	8496	1.00000	1.29(a)
	132 n-Butanol	56	5.868	5.868	(1.251)	1253	20.0000	23.47(a)
	140 1,3-Butadiene	54	1.370	1.370	(0.292)	833	1.00000	0.98(a)
	189 n-Butyl acetate	43	7.611	7.611	(0.941)	2886	1.00000	1.68(aM)
	86 Benzyl Chloride	91	10.400	10.400	(1.286)	6460	1.00000	1.03(aM)
	182 Epichlorohydrin	57	6.505	6.505	(1.196)	291	4.00000	11.67(M)
	150 Allyl alcohol	57	3.499	3.499	(0.746)	236	20.0000	37.94(M)
	162 Butyl acrylate	55	8.642	8.642	(1.069)	4240	1.00000	3.00(a)
	194 Acetaldehyde	44	1.430	1.430	(0.305)	5299	4.00000	1.78(aM)
	131 Methyl Acrylate	55	4.223	4.223	(0.900)	1955	1.00000	1.04(aM)
	133 Ethyl Acrylate	55	5.827	5.827	(1.242)	2458	1.00000	1.00(aM)
M	94 1,2-Dichloroethylene (total)	96				4834	2.00000	(a)
M	95 Xylenes (total)	106				11365	3.00000	(a)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.


Y (x10^5)
Min
-Chloromethane
-Vinyl Chloride+
-Bromomethane+
-Trichlorofluoromethane+
-1,1-Dichloroethene+
-Iodomethane+
-Allyl Chloride+
-Methylene Chloride
-Tert-butyl alcohol+
-trans-1,2-Dichloroethene+
-Acrolein+
-1,1-Dichloroethane
-Allyl alcohol+
-tert-Butyl ethyl ether
-Methacrylonitrile+
-Ethyl Acetate+
-Bromochloromethane
-Chloroform+
-Dibromofluoromethane+
-Pentafluorobenzene+
-1,1-Dichloropropene+
-1,2-Dichloroethane+
-Isobutyl Alcohol+
-1,4-Difluorobenzene
-Trichloroethene
-1,2-Dichloropropane+
-Dibromomethane+
-Bromodichloromethane
-2-Nitropropane
-cis-1,3-Dichloropropene+
-4-Methyl-2-Pentanone+
-Toluene
-trans-1,3-Dichloropropene+
-1,1,2-Trichloroethane
-1,3-Dichloropropane+
-2-Hexanone+
-1,2-Dibromoethane
-1,1,1,2-Tetrachloroethane+
-m,p-Xylenes
Chlorobenzene-d5+
-o-Xylene+
-Bromoform
-Isopropylbenzene
-4-Bromofluorobenzene
-1,2,3-Trichloropropane+
-trans-1,4-Dichloro-2-bute+
-2-Chlorotoluene
-1,3,5-Trimethylbenzene+
-tert-Butylbenzene+
-sec-Butylbenzene
-1,2,3-Trimethylbenzene
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-1,2-Dibromo-3-Chloropropa
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene+
-1,2,3-Trichlorobenzene
-2-Methylnaphthalene
-1-Methylnaphthalene
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Operator: FT
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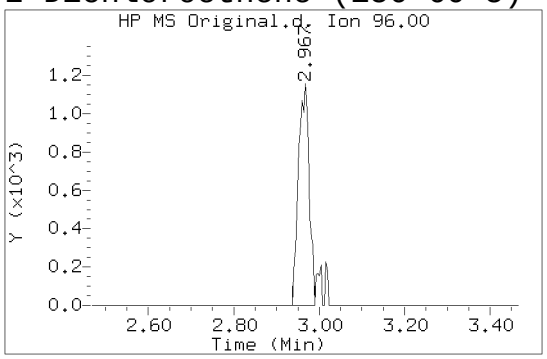
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LabSampID : VSTD001

trans-1,2-Dichloroethene (156-60-5)

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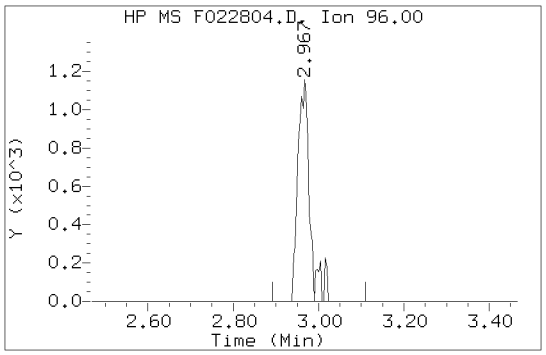
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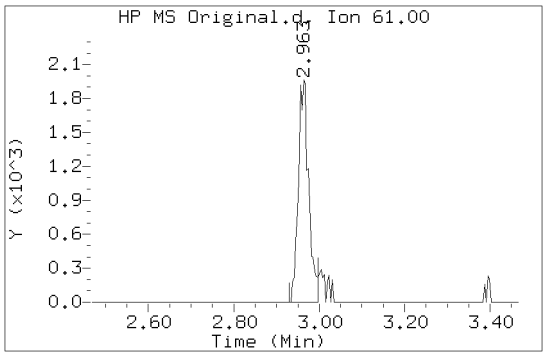
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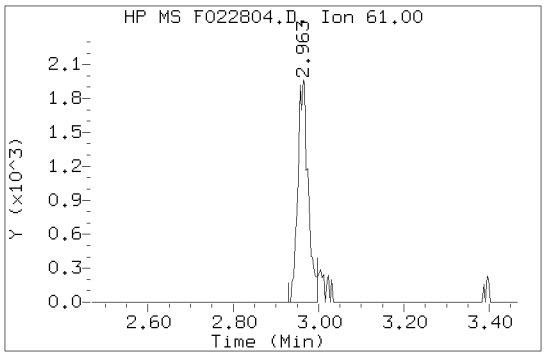
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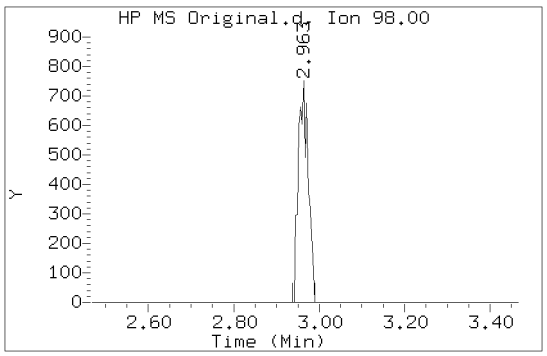
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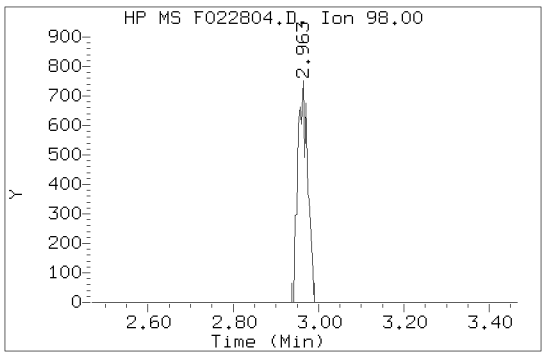
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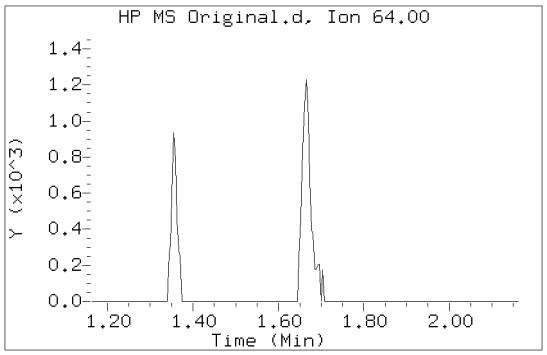


Chloroethane (75-00-3)

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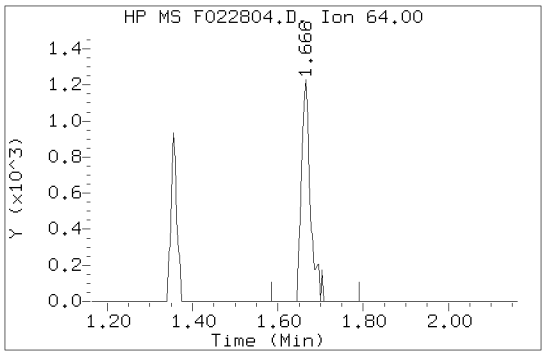
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AFTER

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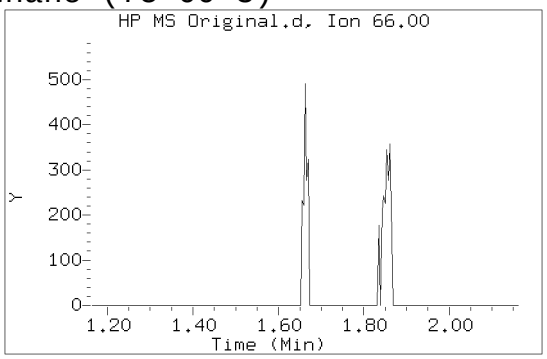
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LabSampID : VSTD001

Chloroethane (75-00-3)

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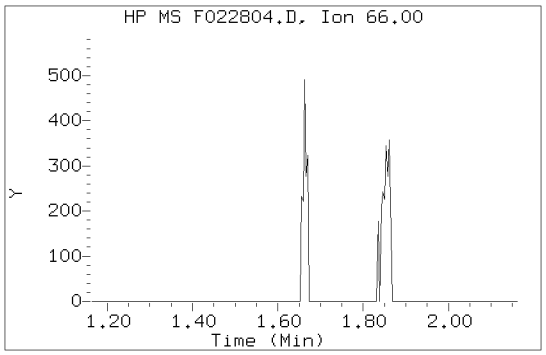
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AFTER

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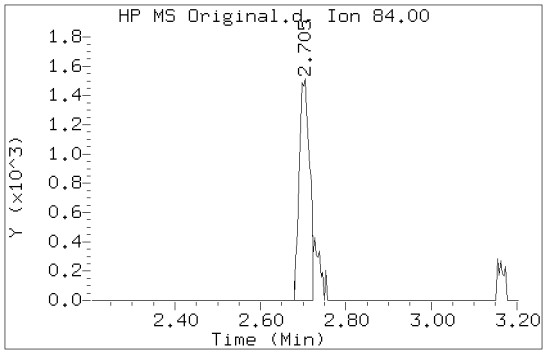


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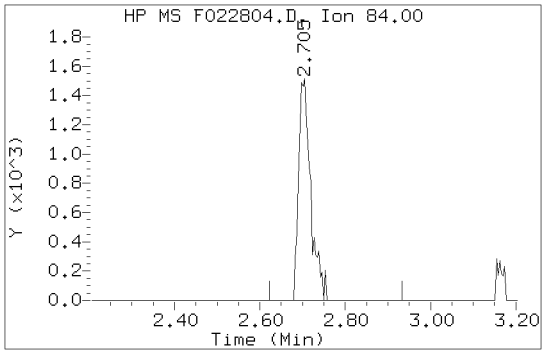
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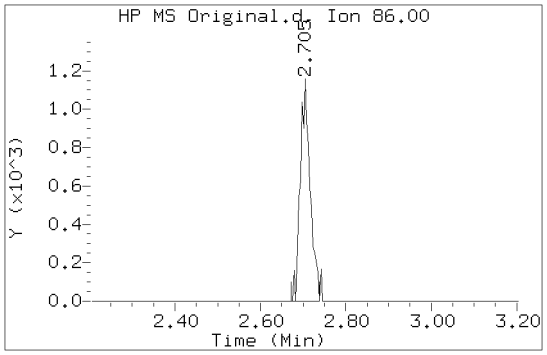
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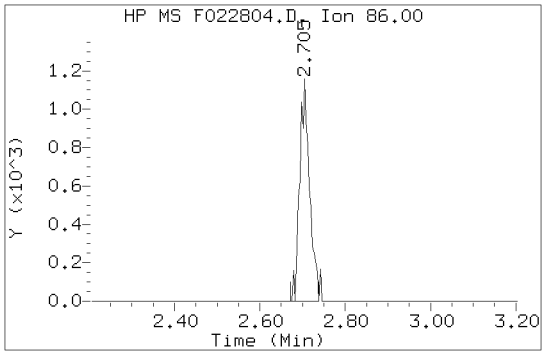
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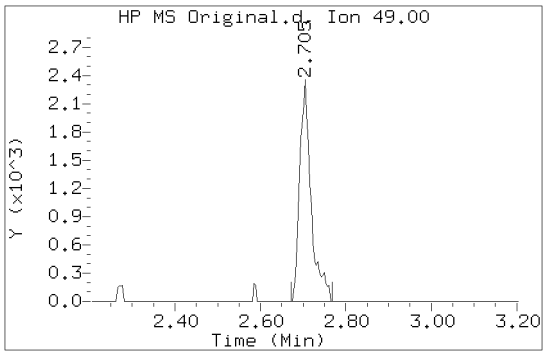
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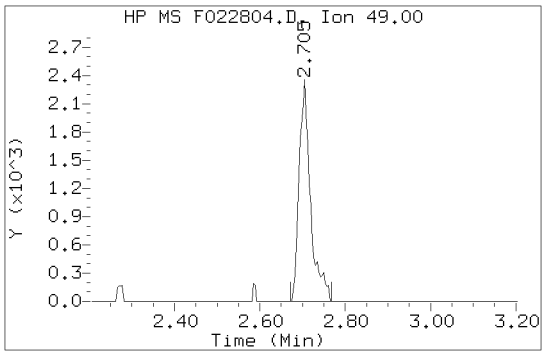
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ALSHS
Server



AFTER

MASS
49
AREA
4461
HEIGHT
2356
11-Mar-2024
13:57
ALSHS
Ser

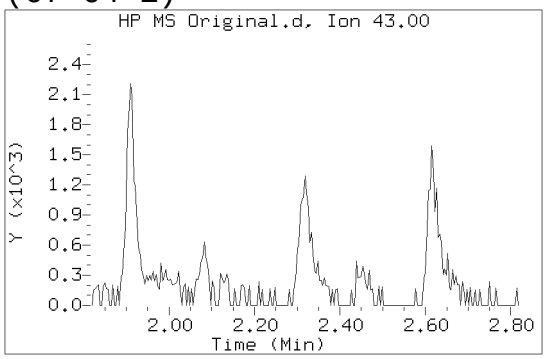


Data File : \\NAHSTWS005\Target\chem\voa10.i\G240228.b\F022804.D
Inj Date : 28-FEB-2024 17:51
InstruID : voa10.i
LabSampID : VSTD001

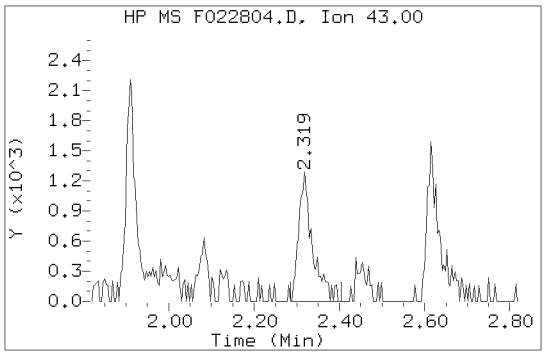
Acetone (67-64-1)

Reason Code:

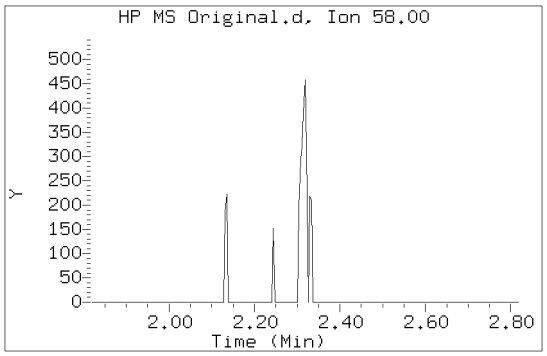
BEFORE
MASS
43
AREA
0
HEIGHT
0
28-Feb-2024
18:07
ALSHS
Server



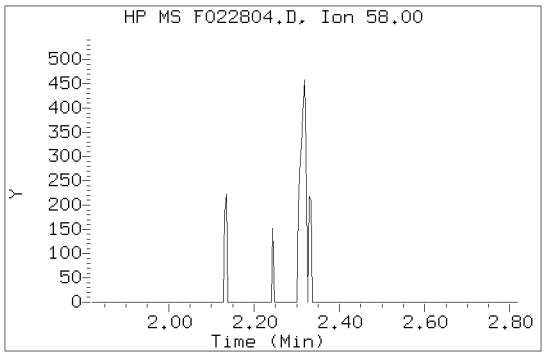
AFTER
MASS
43
AREA
2956
HEIGHT
1290
11-Mar-2024
13:57
ALSHS
Ser



BEFORE
MASS
58
AREA
0
HEIGHT
0
28-Feb-2024
18:07
ALSHS
Server



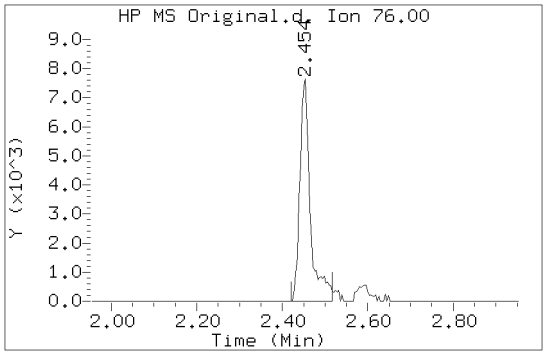
AFTER
MASS
58
AREA
0
HEIGHT
0
11-Mar-2024
13:57
ALSHS
Ser



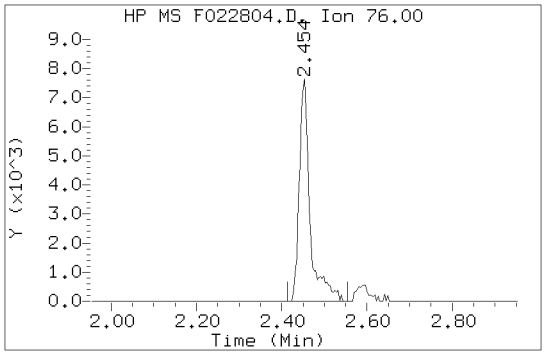
Carbon Disulfide (75-15-0)

Reason Code:

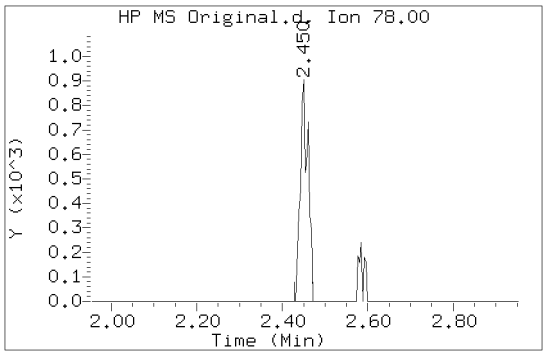
BEFORE
MASS
76
AREA
13382
HEIGHT
7647
28-Feb-2024
18:07
ALSHS
Server



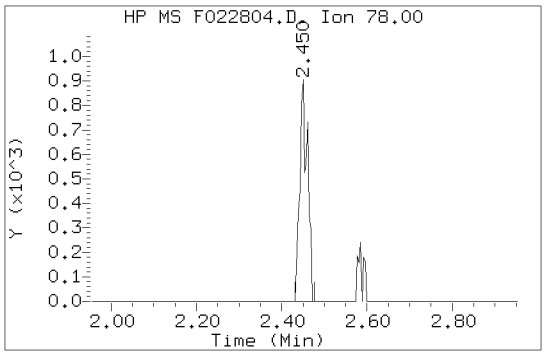
AFTER
MASS
76
AREA
13737
HEIGHT
7647
11-Mar-2024
13:57
ALSHS
Ser



BEFORE
MASS
78
AREA
1170
HEIGHT
905
28-Feb-2024
18:07
ALSHS
Server



AFTER
MASS
78
AREA
1170
HEIGHT
905
11-Mar-2024
13:57
ALSHS
Ser



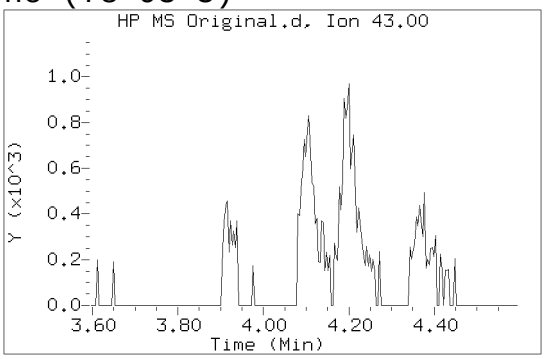
Data File : \\NAHSTWS005\Target\chem\voa10.i\G240228.b\F022804.D
Inj Date : 28-FEB-2024 17:51
InstruID : voa10.i
LabSampID : VSTD001

2-Butanone (78-93-3)

Reason Code:

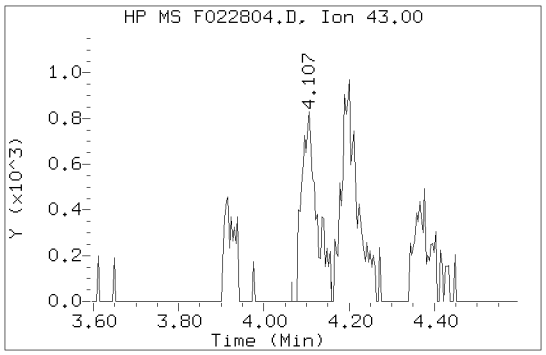
BEFORE

MASS
43
AREA
0
HEIGHT
0
28-Feb-2024
18:07
ALSHS
Server



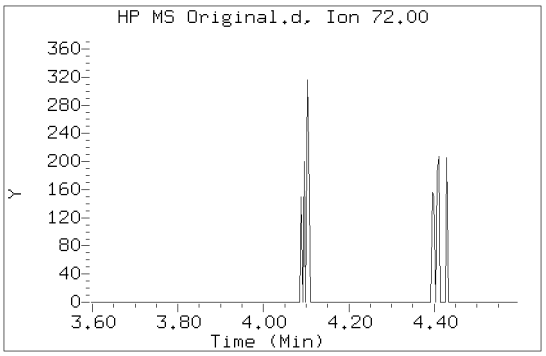
AFTER

MASS
43
AREA
2068
HEIGHT
831
11-Mar-2024
13:57
ALSHS
Ser



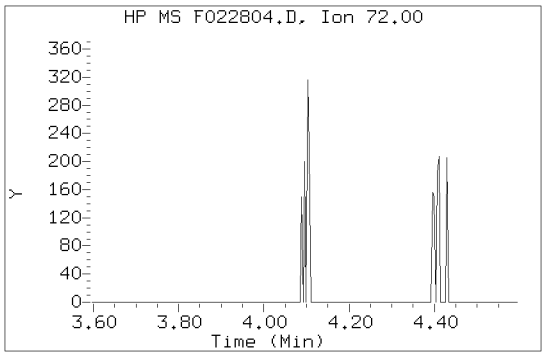
BEFORE

MASS
72
AREA
0
HEIGHT
0
28-Feb-2024
18:07
ALSHS
Server



AFTER

MASS
72
AREA
0
HEIGHT
0
11-Mar-2024
13:57
ALSHS
Ser

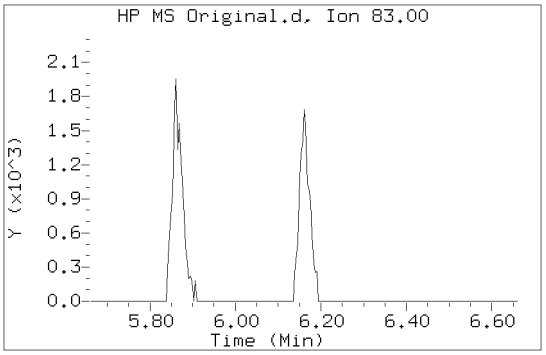


Bromodichloromethane (75-27-4)

Reason Code:

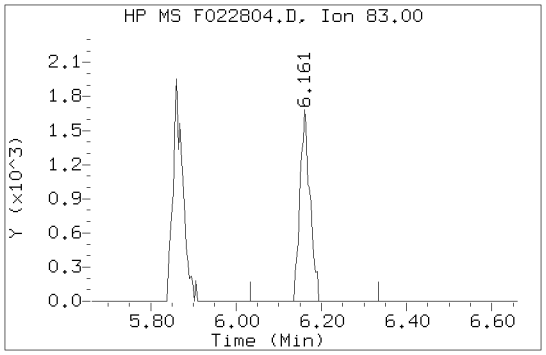
BEFORE

MASS
83
AREA
0
HEIGHT
0
28-Feb-2024
18:07
ALSHS
Server



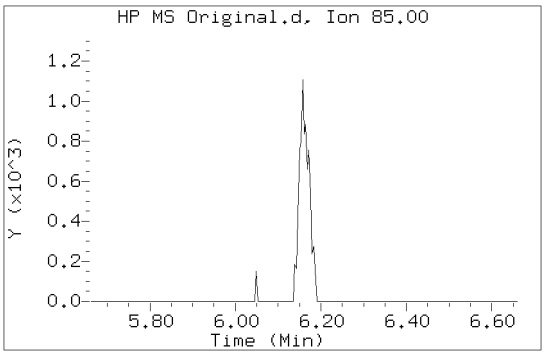
AFTER

MASS
83
AREA
2814
HEIGHT
1685
11-Mar-2024
13:57
ALSHS
Ser



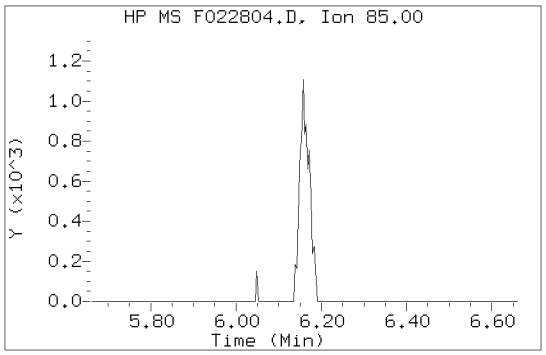
BEFORE

MASS
85
AREA
0
HEIGHT
0
28-Feb-2024
18:07
ALSHS
Server



AFTER

MASS
85
AREA
0
HEIGHT
0
11-Mar-2024
13:57
ALSHS
Ser



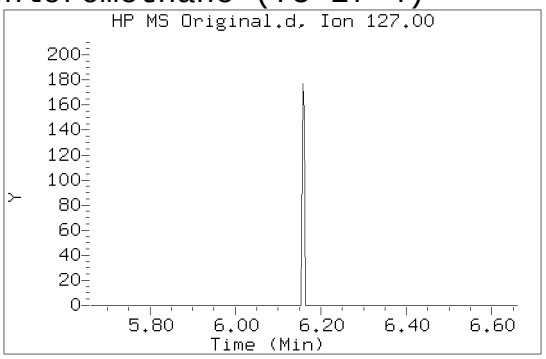
Data File : \\NAHSTWS005\Target\chem\voa10.i\G240228.b\F022804.D
Inj Date : 28-FEB-2024 17:51
InstruID : voa10.i
LabSampID : VSTD001

Bromodichloromethane (75-27-4)

Reason Code:

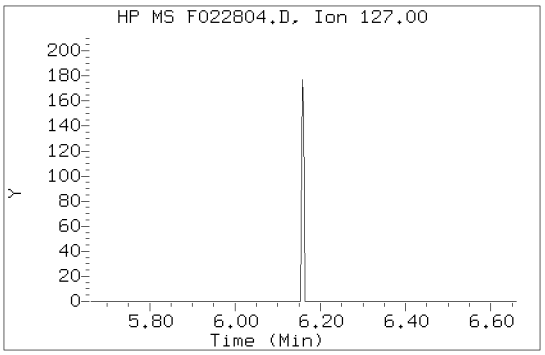
BEFORE

MASS
127
AREA
0
HEIGHT
0
28-Feb-2024
18:07
ALSHS
Server



AFTER

MASS
127
AREA
0
HEIGHT
0
11-Mar-2024
13:57
ALSHS
Ser

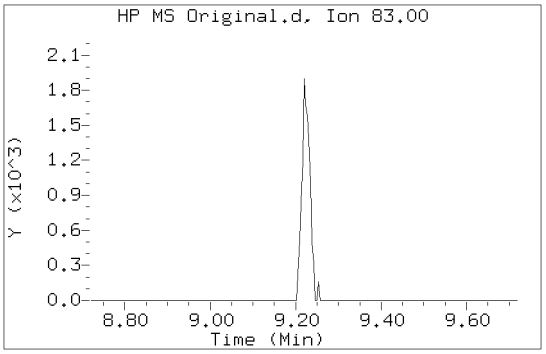


1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

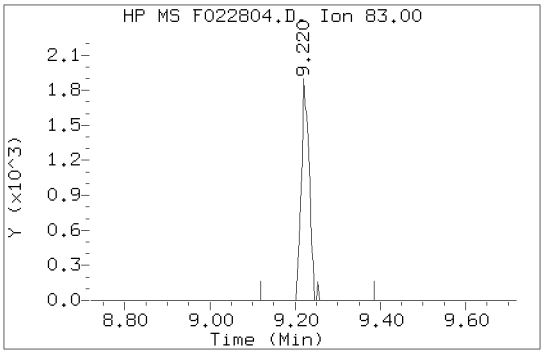
BEFORE

MASS
83
AREA
0
HEIGHT
0
28-Feb-2024
18:07
ALSHS
Server



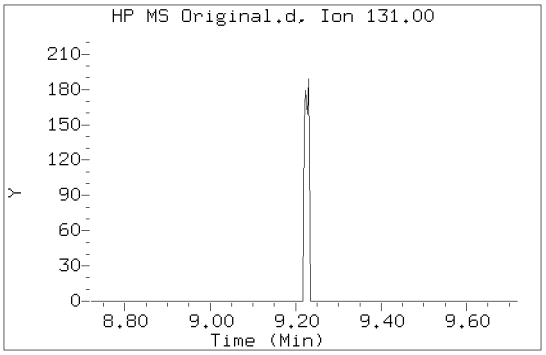
AFTER

MASS
83
AREA
2537
HEIGHT
1899
11-Mar-2024
13:57
ALSHS
Ser



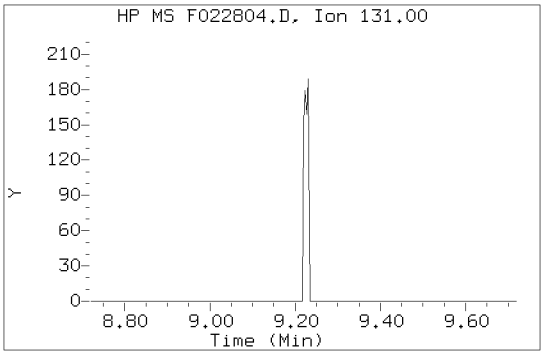
BEFORE

MASS
131
AREA
0
HEIGHT
0
28-Feb-2024
18:07
ALSHS
Server



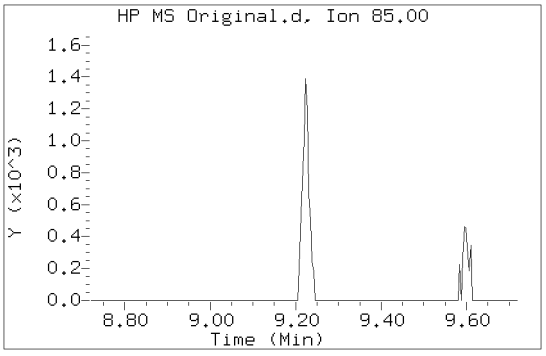
AFTER

MASS
131
AREA
0
HEIGHT
0
11-Mar-2024
13:57
ALSHS
Ser



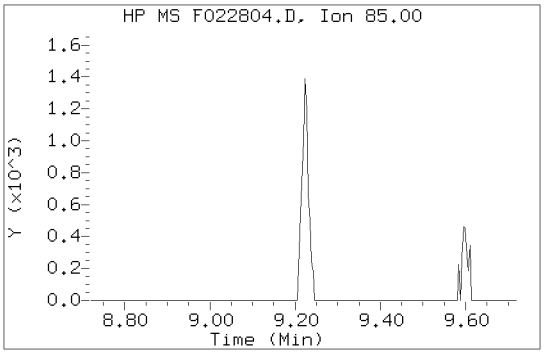
BEFORE

MASS
85
AREA
0
HEIGHT
0
28-Feb-2024
18:07
ALSHS
Server



AFTER

MASS
85
AREA
0
HEIGHT
0
11-Mar-2024
13:57
ALSHS
Ser



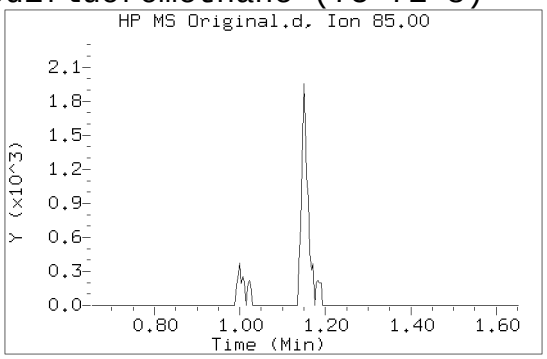
Data File : \\NAHSTWS005\Target\chem\voa10.i\G240228.b\F022804.D
Inj Date : 28-FEB-2024 17:51
InstruID : voa10.i
LabSampID : VSTD001

Dichlorodifluoromethane (75-71-8)

Reason Code:

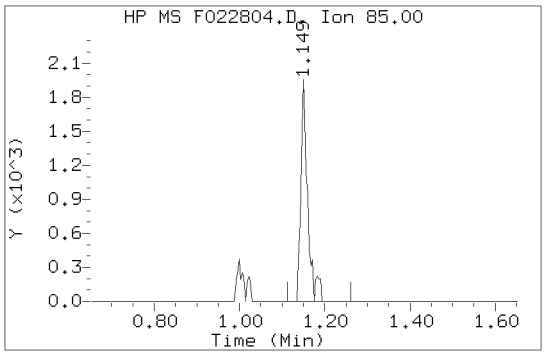
BEFORE

MASS
85
AREA
0
HEIGHT
0
28-Feb-2024
18:07
ALSHS
Server



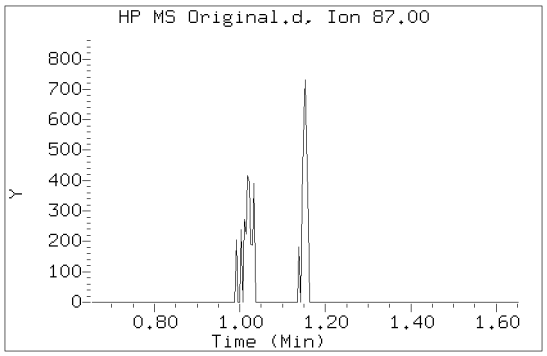
AFTER

MASS
85
AREA
2234
HEIGHT
1956
11-Mar-2024
13:57
ALSHS
Ser



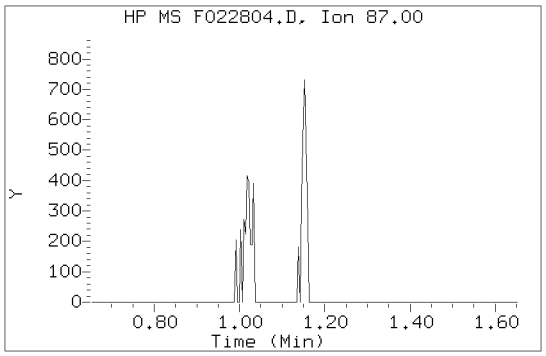
BEFORE

MASS
87
AREA
0
HEIGHT
0
28-Feb-2024
18:07
ALSHS
Server



AFTER

MASS
87
AREA
0
HEIGHT
0
11-Mar-2024
13:57
ALSHS
Ser

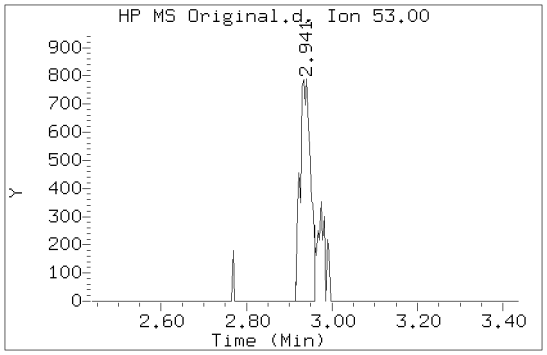


Acrylonitrile (107-13-1)

Reason Code:

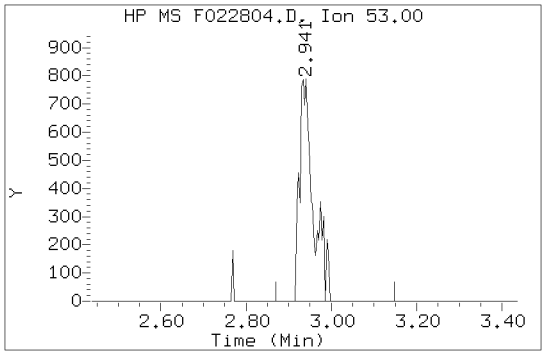
BEFORE

MASS
53
AREA
1404
HEIGHT
789
28-Feb-2024
18:07
ALSHS
Server



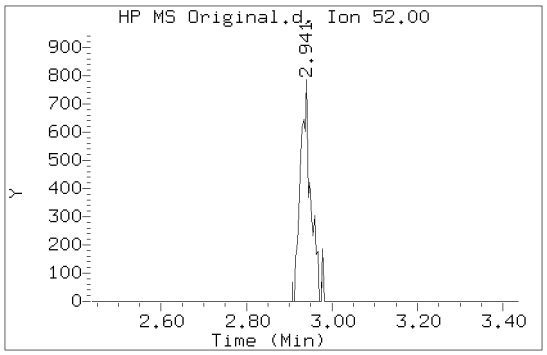
AFTER

MASS
53
AREA
1829
HEIGHT
789
11-Mar-2024
13:57
ALSHS
Ser



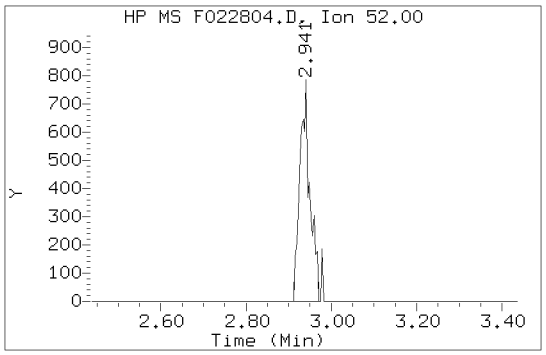
BEFORE

MASS
52
AREA
1307
HEIGHT
786
28-Feb-2024
18:07
ALSHS
Server



AFTER

MASS
52
AREA
1307
HEIGHT
786
11-Mar-2024
13:57
ALSHS
Ser

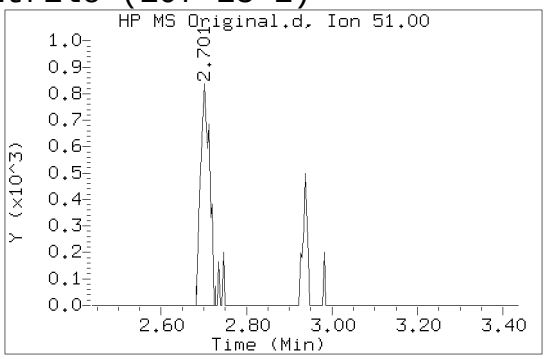


Data File : \\NAHSTWS005\Target\chem\voa10.i\G240228.b\F022804.D
Inj Date : 28-FEB-2024 17:51
InstruID : voa10.i
LabSampID : VSTD001

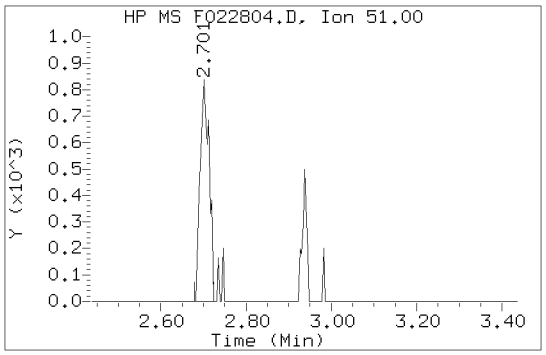
Acrylonitrile (107-13-1)

Reason Code:

BEFORE
MASS
51
AREA
1226
HEIGHT
838
28-Feb-2024
18:07
ALSHS
Server



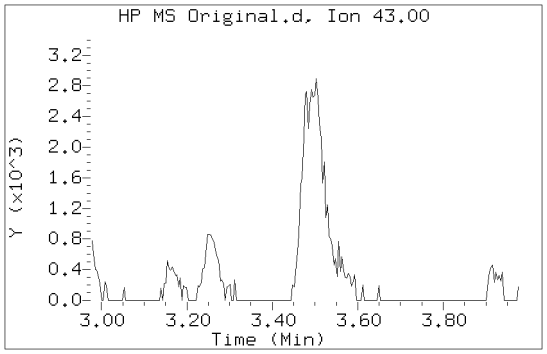
AFTER
MASS
51
AREA
1225
HEIGHT
838
11-Mar-2024
13:57
ALSHS
Ser



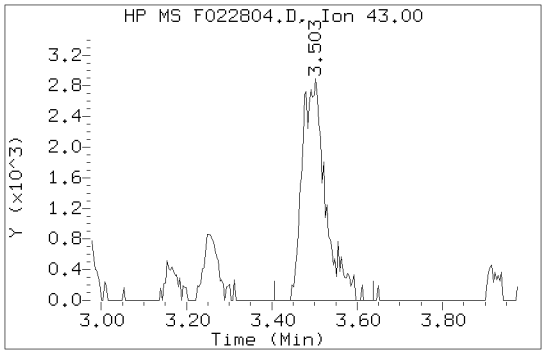
Vinyl Acetate (108-05-4)

Reason Code:

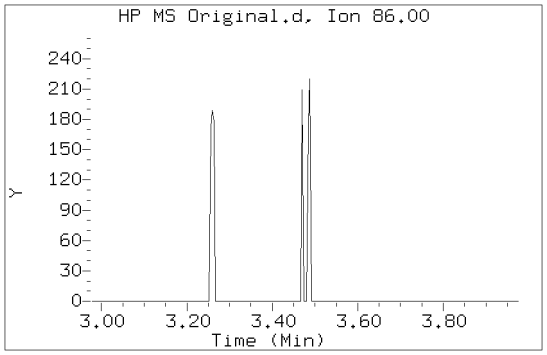
BEFORE
MASS
43
AREA
0
HEIGHT
0
28-Feb-2024
18:07
ALSHS
Server



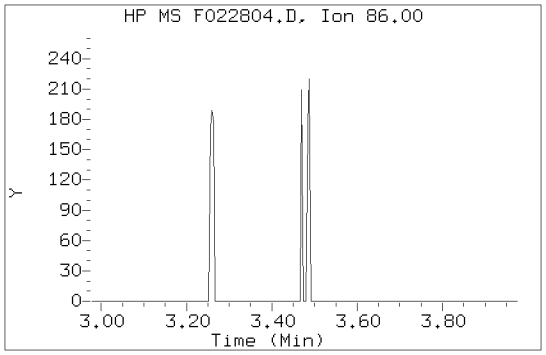
AFTER
MASS
43
AREA
11108
HEIGHT
2894
11-Mar-2024
13:57
ALSHS
Ser



BEFORE
MASS
86
AREA
0
HEIGHT
0
28-Feb-2024
18:07
ALSHS
Server



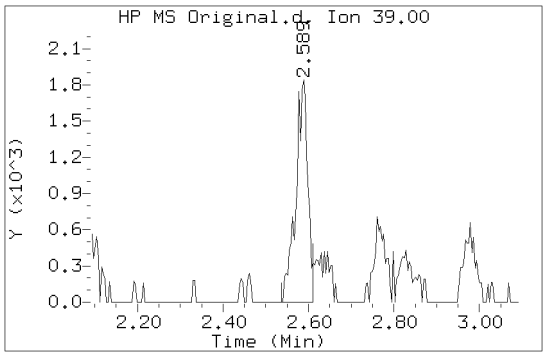
AFTER
MASS
86
AREA
0
HEIGHT
0
11-Mar-2024
13:57
ALSHS
Ser



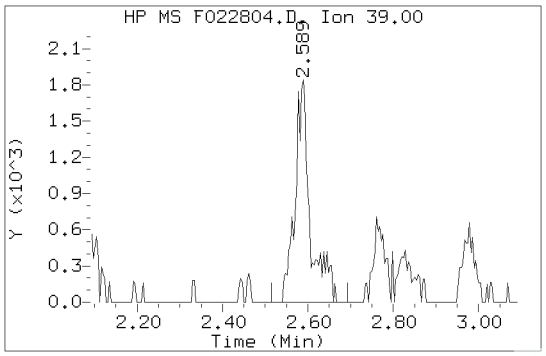
Acetonitrile (75-05-8)

Reason Code:

BEFORE
MASS
39
AREA
3692
HEIGHT
1841
28-Feb-2024
18:07
ALSHS
Server



AFTER
MASS
39
AREA
4595
HEIGHT
1841
11-Mar-2024
13:57
ALSHS
Ser



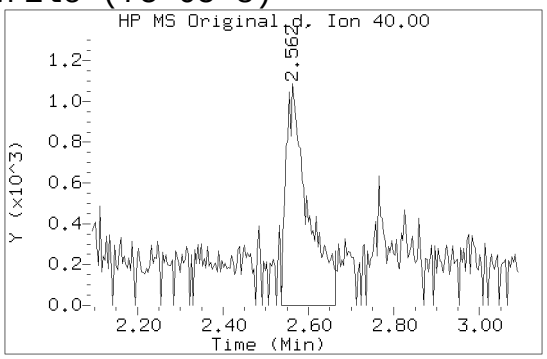
Data File : \\NAHSTWS005\Target\chem\voa10.i\G240228.b\F022804.D
Inj Date : 28-FEB-2024 17:51
InstruID : voa10.i
LabSampID : VSTD001

Acetonitrile (75-05-8)

Reason Code:

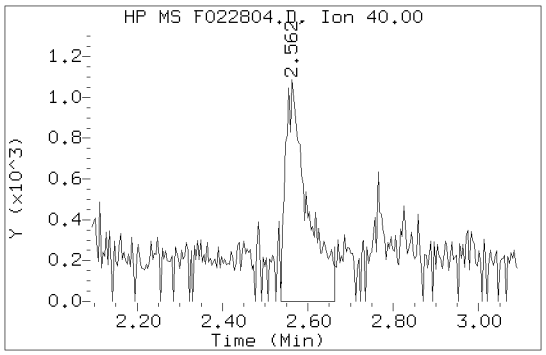
BEFORE

MASS
40
AREA
3847
HEIGHT
1087
28-Feb-2024
18:07
ALSHS
Server



AFTER

MASS
40
AREA
3847
HEIGHT
1087
11-Mar-2024
13:57
ALSHS
Ser

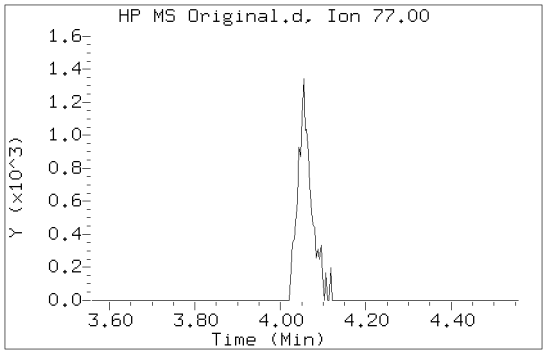


2,2-Dichloropropane (594-20-7)

Reason Code:

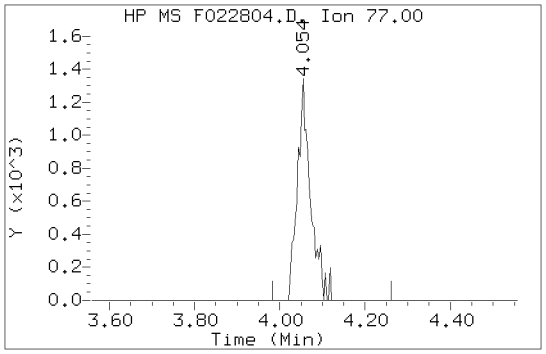
BEFORE

MASS
77
AREA
0
HEIGHT
0
28-Feb-2024
18:07
ALSHS
Server



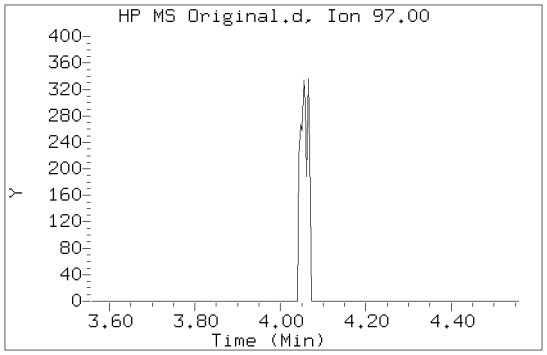
AFTER

MASS
77
AREA
2923
HEIGHT
1343
11-Mar-2024
13:57
ALSHS
Ser



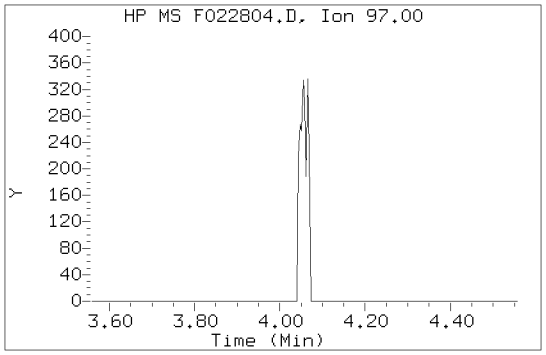
BEFORE

MASS
97
AREA
0
HEIGHT
0
28-Feb-2024
18:07
ALSHS
Server



AFTER

MASS
97
AREA
0
HEIGHT
0
11-Mar-2024
13:57
ALSHS
Ser

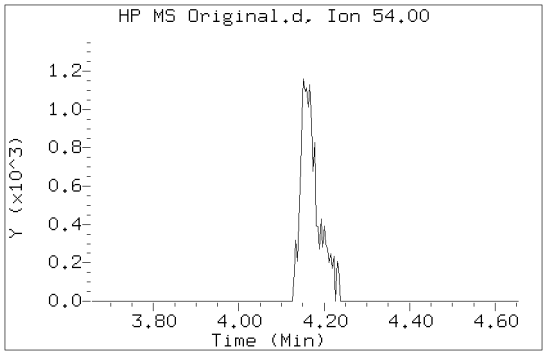


Propionitrile (107-12-0)

Reason Code:

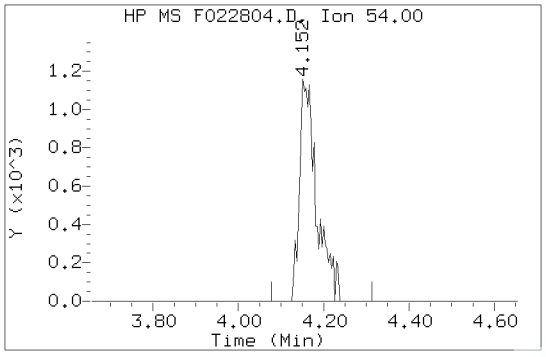
BEFORE

MASS
54
AREA
0
HEIGHT
0
28-Feb-2024
18:07
ALSHS
Server



AFTER

MASS
54
AREA
3292
HEIGHT
1160
11-Mar-2024
13:57
ALSHS
Ser



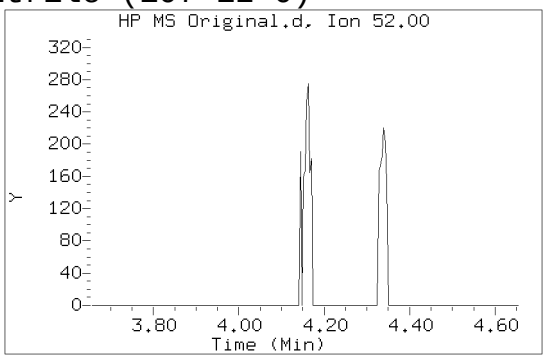
Data File : \\NAHSTWS005\Target\chem\voa10.i\G240228.b\F022804.D
Inj Date : 28-FEB-2024 17:51
InstruID : voa10.i
LabSampID : VSTD001

Propionitrile (107-12-0)

Reason Code:

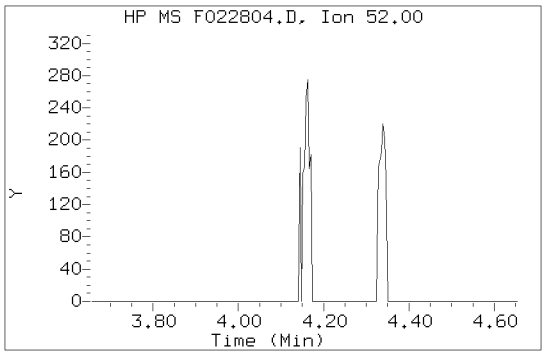
BEFORE

MASS
52
AREA
0
HEIGHT
0
28-Feb-2024
18:07
ALSHS
Server



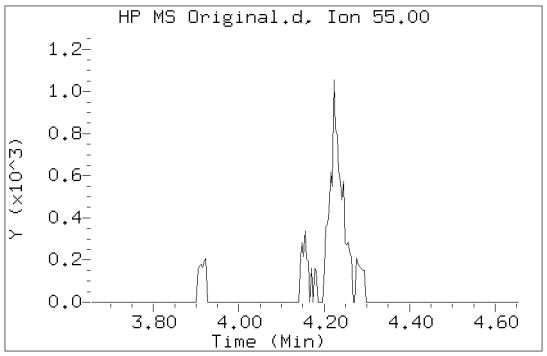
AFTER

MASS
52
AREA
0
HEIGHT
0
11-Mar-2024
13:57
ALSHS
Ser



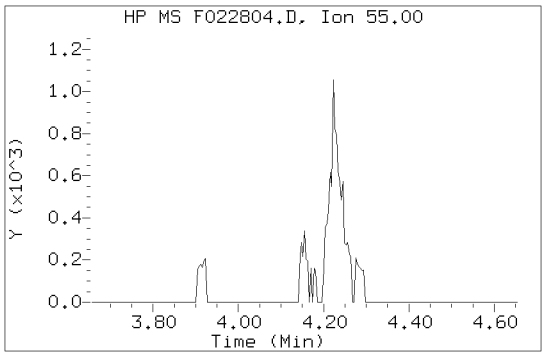
BEFORE

MASS
55
AREA
0
HEIGHT
0
28-Feb-2024
18:07
ALSHS
Server



AFTER

MASS
55
AREA
0
HEIGHT
0
11-Mar-2024
13:57
ALSHS
Ser

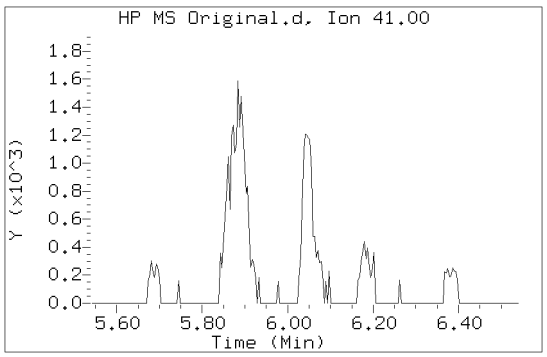


Methyl Methacrylate (80-62-6)

Reason Code:

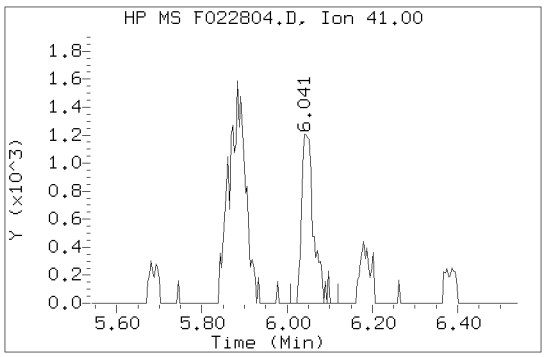
BEFORE

MASS
41
AREA
0
HEIGHT
0
28-Feb-2024
18:07
ALSHS
Server



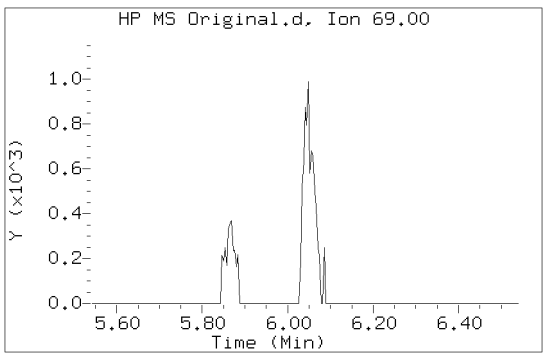
AFTER

MASS
41
AREA
2433
HEIGHT
1207
11-Mar-2024
13:57
ALSHS
Ser



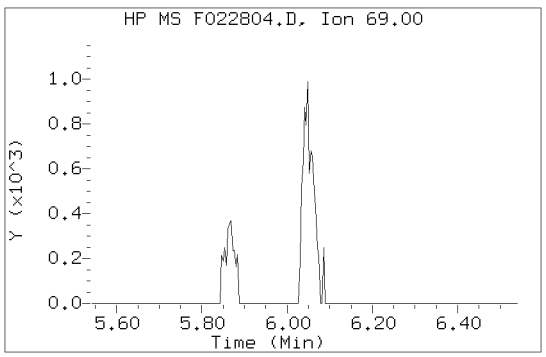
BEFORE

MASS
69
AREA
0
HEIGHT
0
28-Feb-2024
18:07
ALSHS
Server



AFTER

MASS
69
AREA
0
HEIGHT
0
11-Mar-2024
13:57
ALSHS
Ser



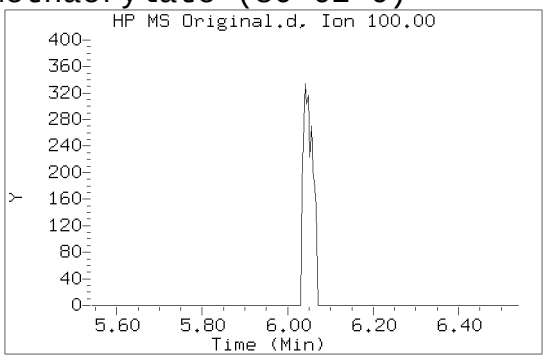
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Inj Date : 28-FEB-2024 17:51
InstruID : voa10.i
LabSampID : VSTD001

Methyl Methacrylate (80-62-6)

Reason Code:

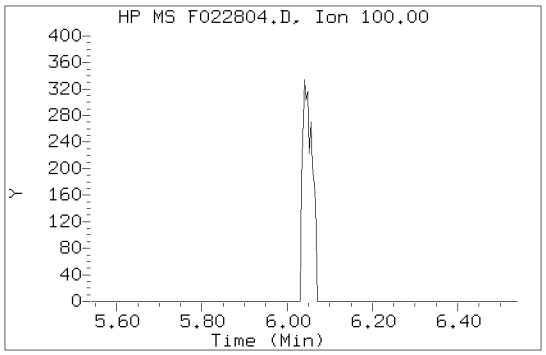
BEFORE

MASS
100
AREA
0
HEIGHT
0
28-Feb-2024
18:07
ALSHS
Server



AFTER

MASS
100
AREA
0
HEIGHT
0
11-Mar-2024
13:57
ALSHS
Ser

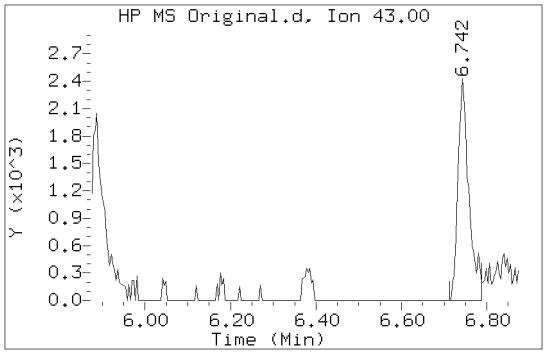


2-Nitropropane (79-46-9)

Reason Code:

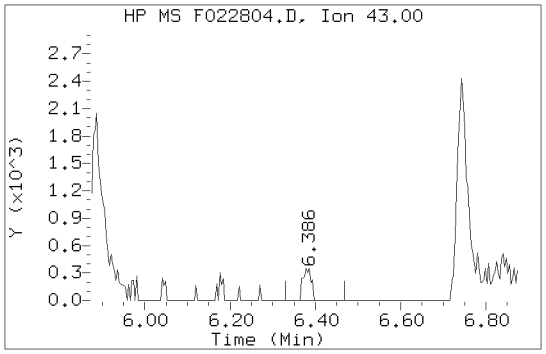
BEFORE

MASS
43
AREA
4319
HEIGHT
2427
28-Feb-2024
18:07
ALSHS
Server



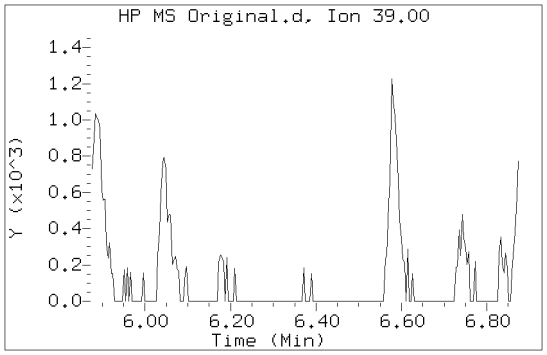
AFTER

MASS
43
AREA
486
HEIGHT
354
11-Mar-2024
13:57
ALSHS
Ser



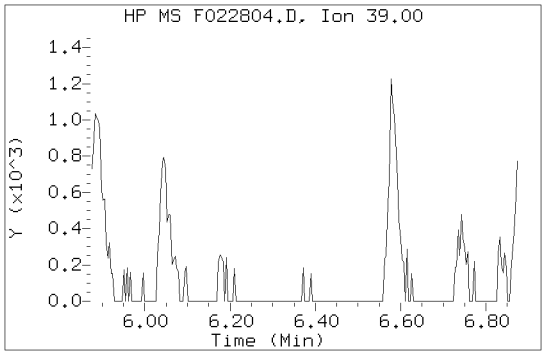
BEFORE

MASS
39
AREA
2151
HEIGHT
1073
28-Feb-2024
18:07
ALSHS
Server



AFTER

MASS
39
AREA
2151
HEIGHT
1073
11-Mar-2024
13:57
ALSHS
Ser

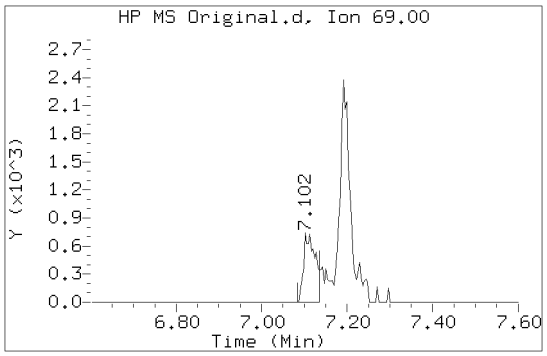


Ethyl Methacrylate (97-63-2)

Reason Code:

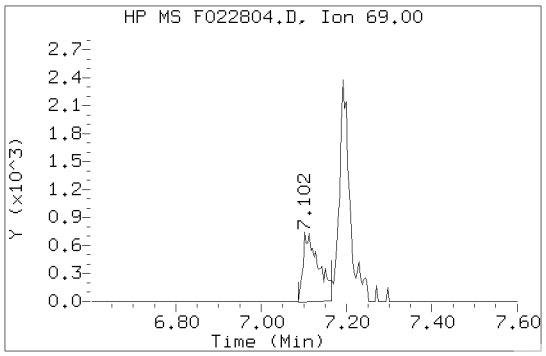
BEFORE

MASS
69
AREA
1426
HEIGHT
744
28-Feb-2024
18:07
ALSHS
Server



AFTER

MASS
69
AREA
1934
HEIGHT
750
11-Mar-2024
13:57
ALSHS
Ser



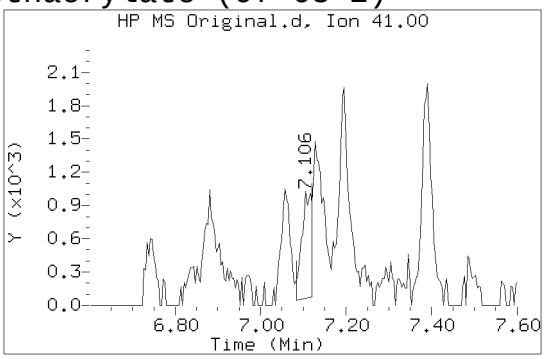
Data File : \\NAHSTWS005\Target\chem\voa10.i\G240228.b\F022804.D
Inj Date : 28-FEB-2024 17:51
InstruID : voa10.i
LabSampID : VSTD001

Ethyl Methacrylate (97-63-2)

Reason Code:

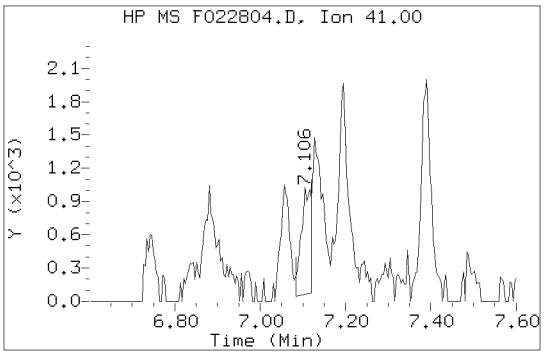
BEFORE

MASS
41
AREA
1603
HEIGHT
961
28-Feb-2024
18:07
ALSHS
Server



AFTER

MASS
41
AREA
1603
HEIGHT
961
11-Mar-2024
13:57
ALSHS
Ser

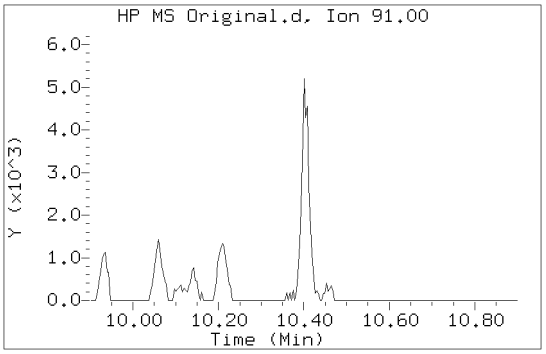


Benzyl Chloride (100-44-7)

Reason Code:

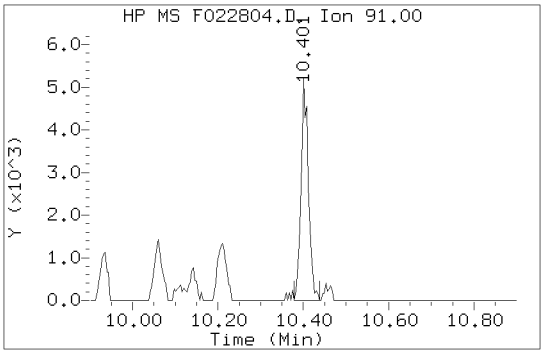
BEFORE

MASS
91
AREA
0
HEIGHT
0
28-Feb-2024
18:07
ALSHS
Server



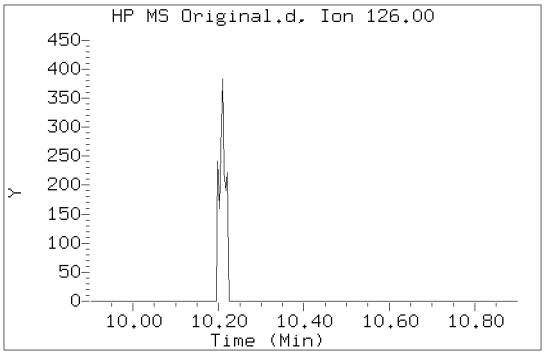
AFTER

MASS
91
AREA
6460
HEIGHT
5202
11-Mar-2024
13:57
ALSHS
Ser



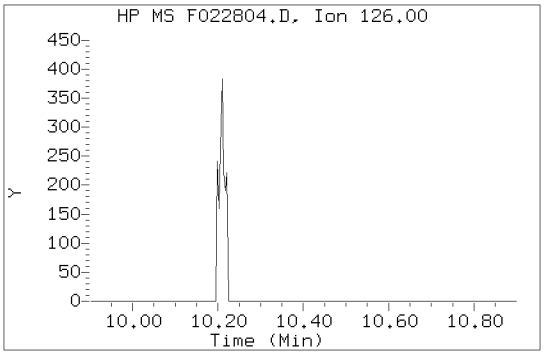
BEFORE

MASS
126
AREA
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HEIGHT
0
28-Feb-2024
18:07
ALSHS
Server



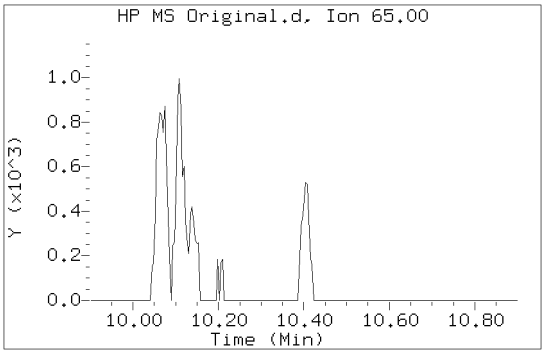
AFTER

MASS
126
AREA
0
HEIGHT
0
11-Mar-2024
13:57
ALSHS
Ser



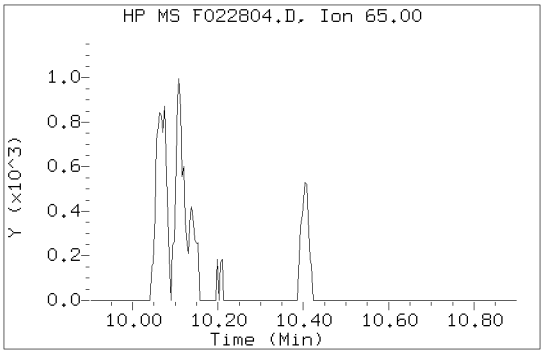
BEFORE

MASS
65
AREA
0
HEIGHT
0
28-Feb-2024
18:07
ALSHS
Server



AFTER

MASS
65
AREA
0
HEIGHT
0
11-Mar-2024
13:57
ALSHS
Ser



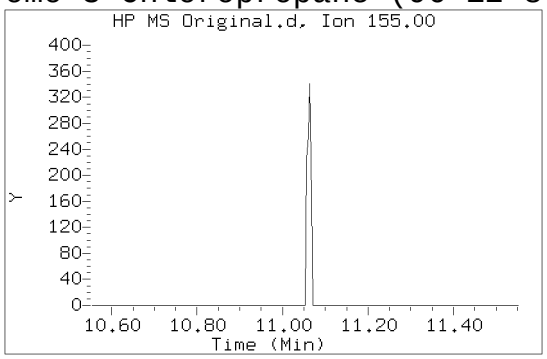
Data File : \\NAHSTWS005\Target\chem\voa10.i\G240228.b\F022804.D
Inj Date : 28-FEB-2024 17:51
InstruID : voa10.i
LabSampID : VSTD001

1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

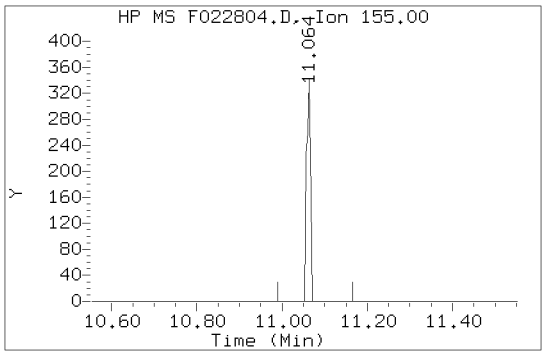
BEFORE

MASS
155
AREA
0
HEIGHT
0
28-Feb-2024
18:07
ALSHS
Server



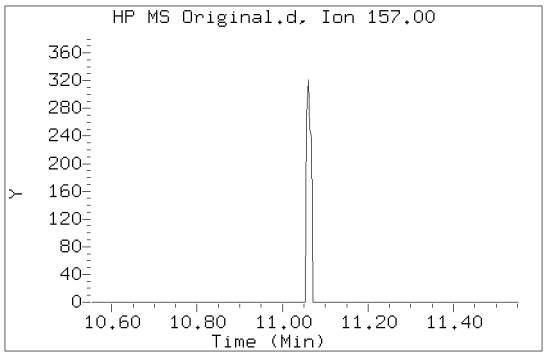
AFTER

MASS
155
AREA
222
HEIGHT
341
11-Mar-2024
13:57
ALSHS
Ser



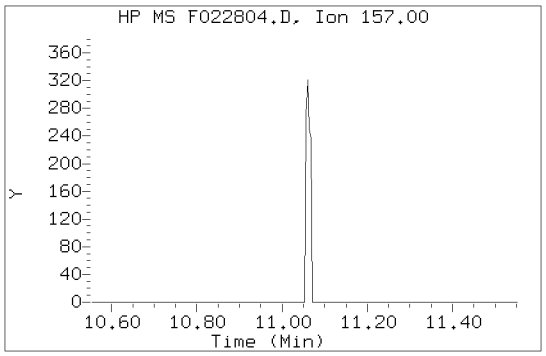
BEFORE

MASS
157
AREA
0
HEIGHT
0
28-Feb-2024
18:07
ALSHS
Server



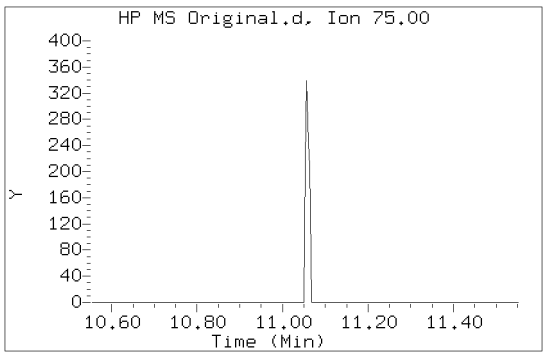
AFTER

MASS
157
AREA
0
HEIGHT
0
11-Mar-2024
13:57
ALSHS
Ser



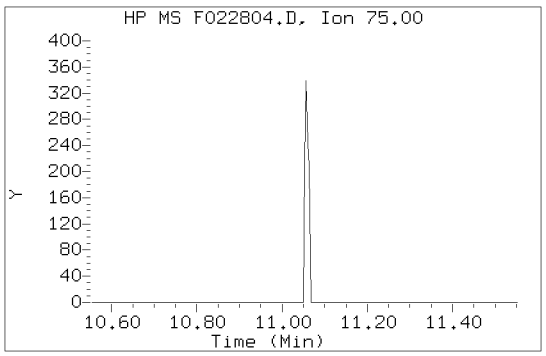
BEFORE

MASS
75
AREA
0
HEIGHT
0
28-Feb-2024
18:07
ALSHS
Server



AFTER

MASS
75
AREA
0
HEIGHT
0
11-Mar-2024
13:57
ALSHS
Ser

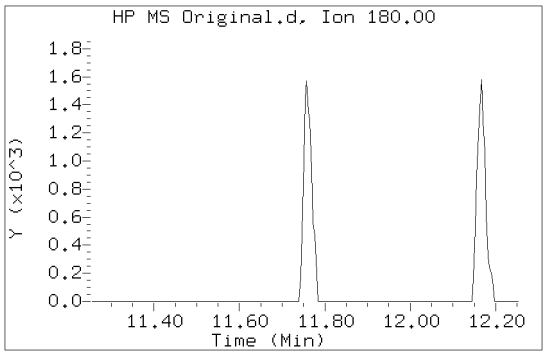


1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

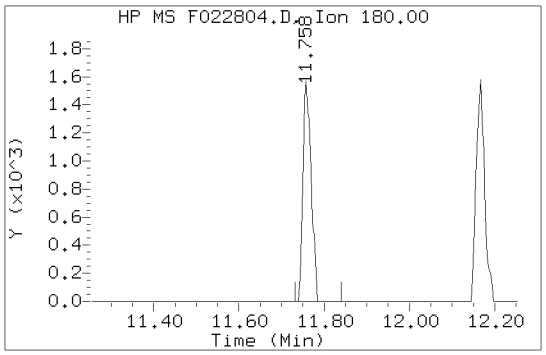
BEFORE

MASS
180
AREA
0
HEIGHT
0
28-Feb-2024
18:07
ALSHS
Server



AFTER

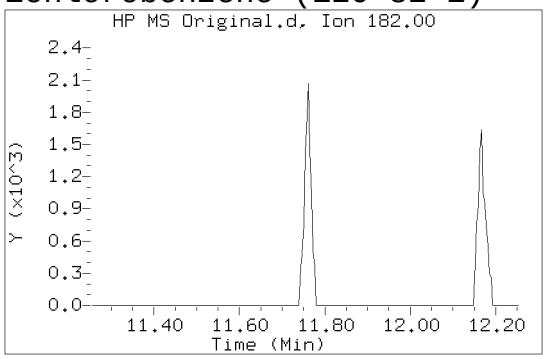
MASS
180
AREA
2156
HEIGHT
1572
11-Mar-2024
13:57
ALSHS
Ser



Data File : \\NAHSTWS005\Target\chem\voa10.i\G240228.b\F022804.D
Inj Date : 28-FEB-2024 17:51
InstruID : voa10.i
LabSampID : VSTD001

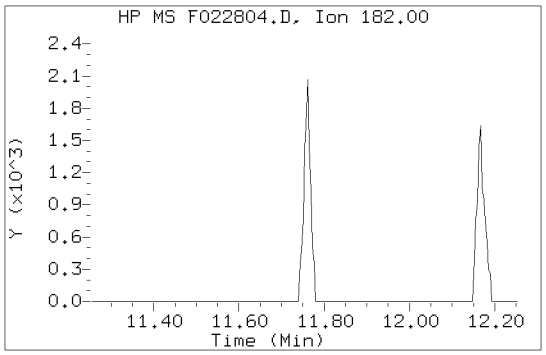
1,2,4-Trichlorobenzene (120-82-1)

BEFORE
MASS
182
AREA
0
HEIGHT
0
28-Feb-2024
18:07
ALSHS
Server

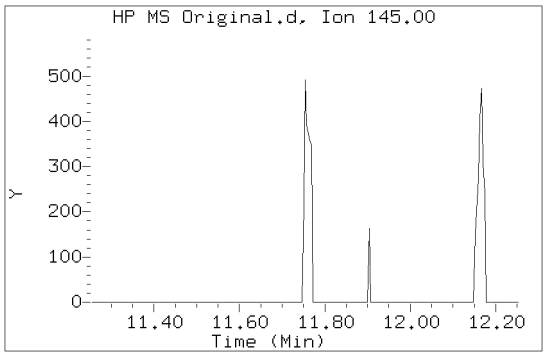


Reason Code:

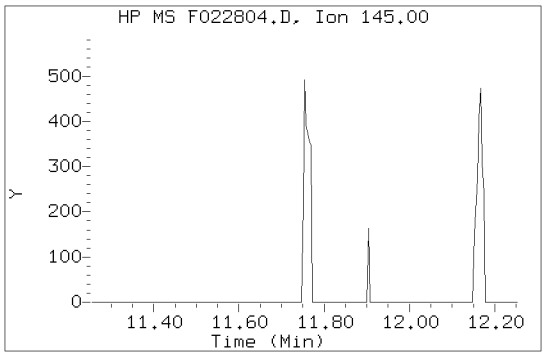
AFTER
MASS
182
AREA
0
HEIGHT
0
11-Mar-2024
13:57
ALSHS
Ser



BEFORE
MASS
145
AREA
0
HEIGHT
0
28-Feb-2024
18:07
ALSHS
Server

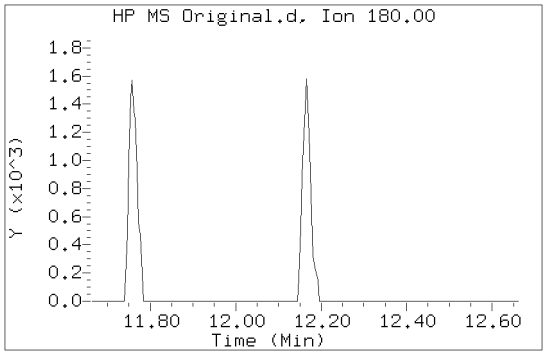


AFTER
MASS
145
AREA
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HEIGHT
0
11-Mar-2024
13:57
ALSHS
Ser



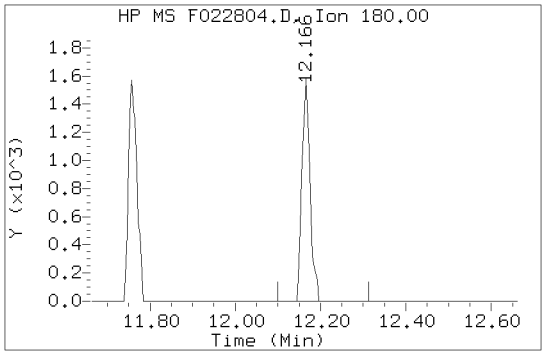
1,2,3-Trichlorobenzene (87-61-6)

BEFORE
MASS
180
AREA
0
HEIGHT
0
28-Feb-2024
18:07
ALSHS
Server

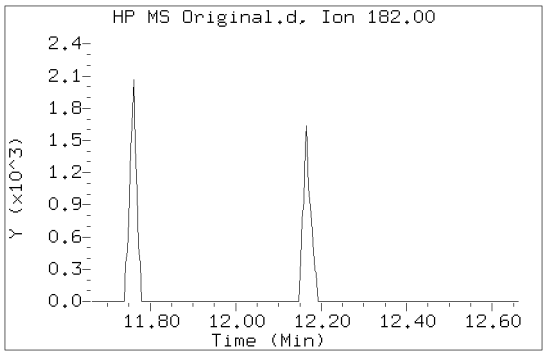


Reason Code:

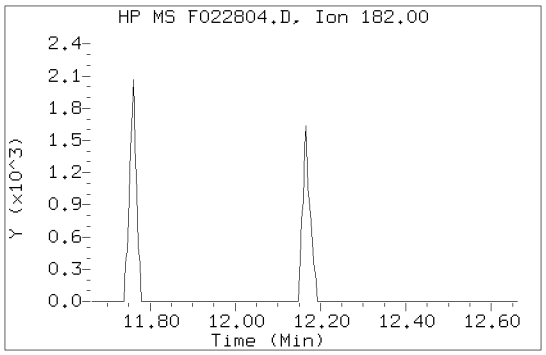
AFTER
MASS
180
AREA
2157
HEIGHT
1579
11-Mar-2024
13:57
ALSHS
Ser



BEFORE
MASS
182
AREA
0
HEIGHT
0
28-Feb-2024
18:07
ALSHS
Server



AFTER
MASS
182
AREA
0
HEIGHT
0
11-Mar-2024
13:57
ALSHS
Ser



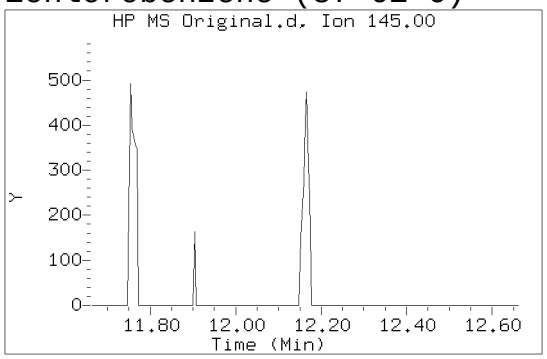
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Inj Date : 28-FEB-2024 17:51
InstruID : voa10.i
LabSampID : VSTD001

1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

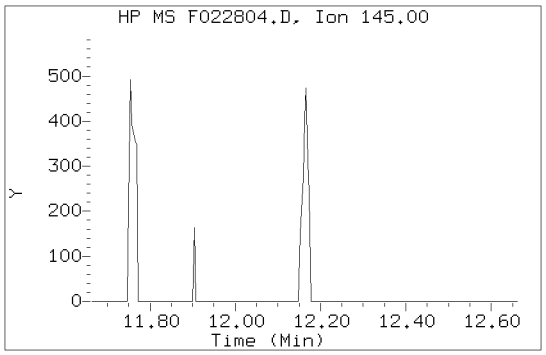
BEFORE

MASS
145
AREA
0
HEIGHT
0
28-Feb-2024
18:07
ALSHS
Server



AFTER

MASS
145
AREA
0
HEIGHT
0
11-Mar-2024
13:57
ALSHS
Ser

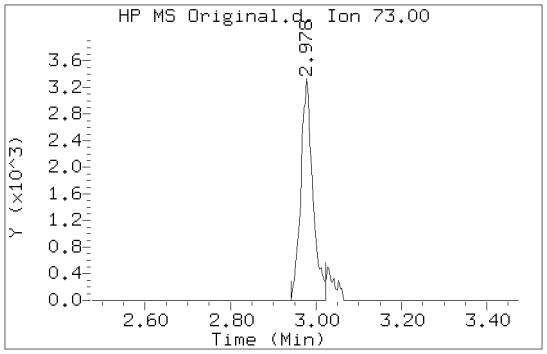


Methyl tert-butyl ether (1634-04-4)

Reason Code:

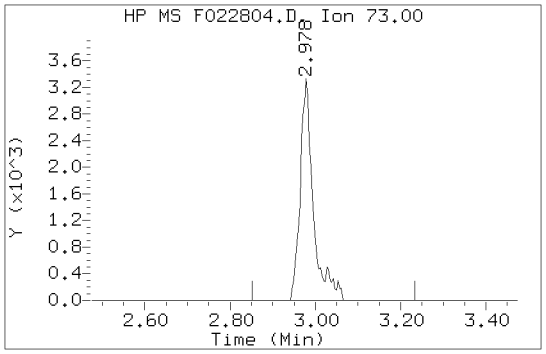
BEFORE

MASS
73
AREA
6623
HEIGHT
3332
28-Feb-2024
18:07
ALSHS
Server



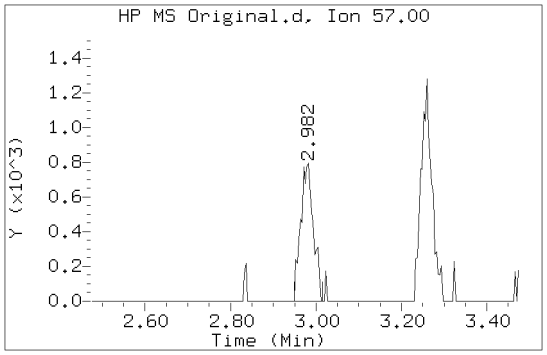
AFTER

MASS
73
AREA
7259
HEIGHT
3332
11-Mar-2024
13:57
ALSHS
Ser



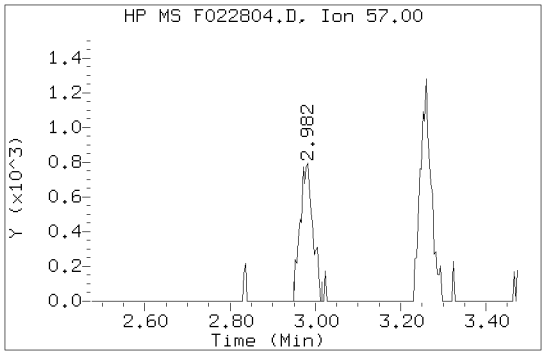
BEFORE

MASS
57
AREA
1668
HEIGHT
796
28-Feb-2024
18:07
ALSHS
Server



AFTER

MASS
57
AREA
1668
HEIGHT
796
11-Mar-2024
13:57
ALSHS
Ser

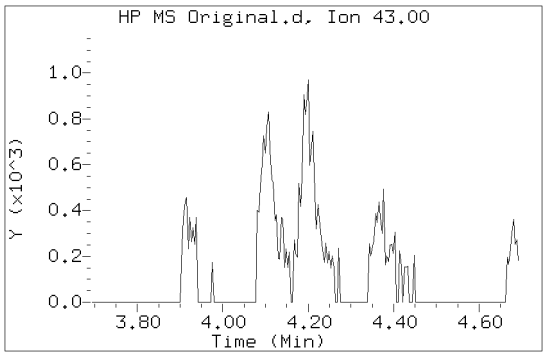


Ethyl Acetate (141-78-6)

Reason Code:

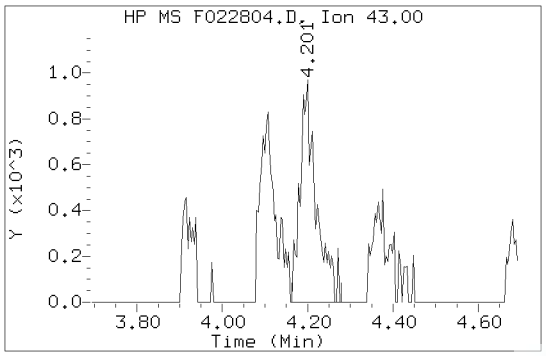
BEFORE

MASS
43
AREA
0
HEIGHT
0
28-Feb-2024
18:07
ALSHS
Server



AFTER

MASS
43
AREA
2566
HEIGHT
970
11-Mar-2024
13:57
ALSHS
Ser



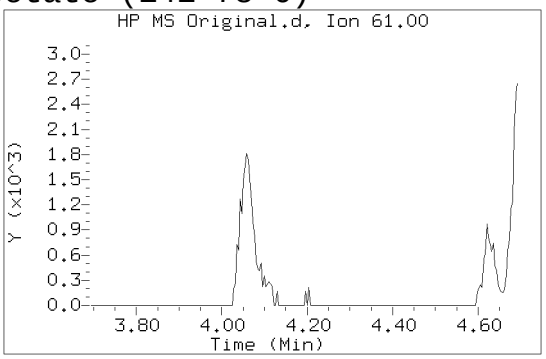
Data File : \\NAHSTWS005\Target\chem\voa10.i\G240228.b\F022804.D
Inj Date : 28-FEB-2024 17:51
InstruID : voa10.i
LabSampID : VSTD001

Ethyl Acetate (141-78-6)

Reason Code:

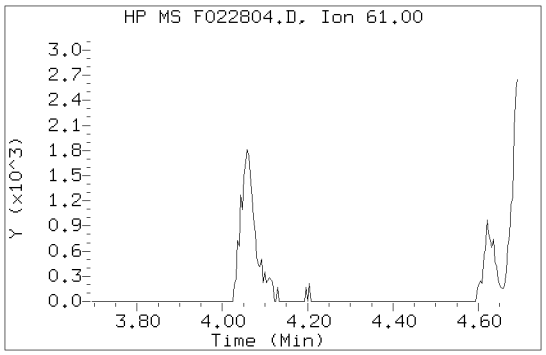
BEFORE

MASS
61
AREA
0
HEIGHT
0
28-Feb-2024
18:07
ALSHS
Server



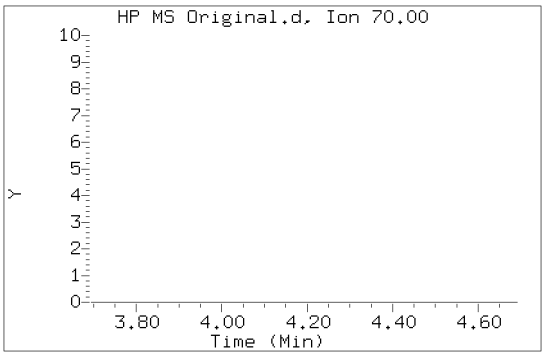
AFTER

MASS
61
AREA
0
HEIGHT
0
11-Mar-2024
13:57
ALSHS
Ser



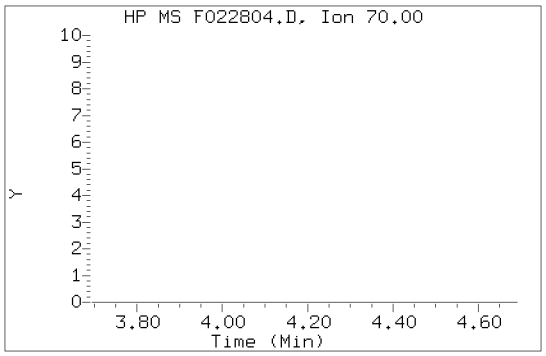
BEFORE

MASS
70
AREA
0
HEIGHT
0
28-Feb-2024
18:07
ALSHS
Server



AFTER

MASS
70
AREA
0
HEIGHT
0
11-Mar-2024
13:57
ALSHS
Ser

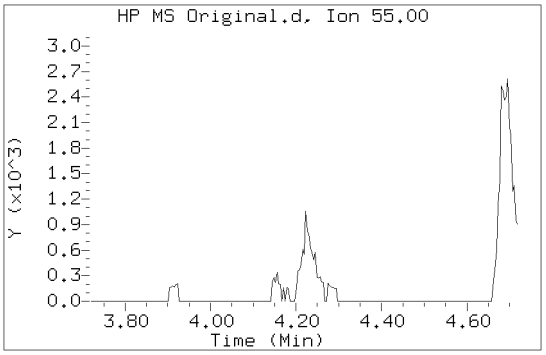


Methyl Acrylate (96-33-3)

Reason Code:

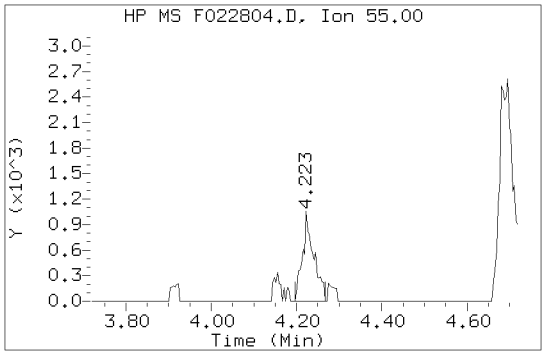
BEFORE

MASS
55
AREA
0
HEIGHT
0
28-Feb-2024
18:07
ALSHS
Server



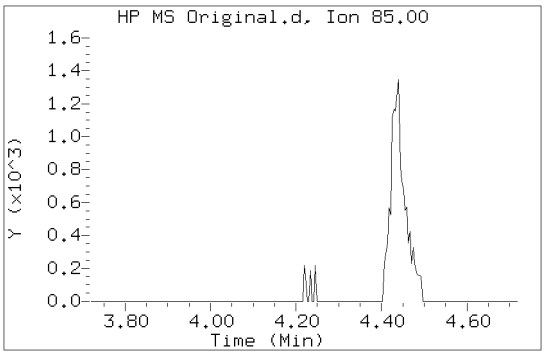
AFTER

MASS
55
AREA
1955
HEIGHT
1055
11-Mar-2024
13:57
ALSHS
Ser



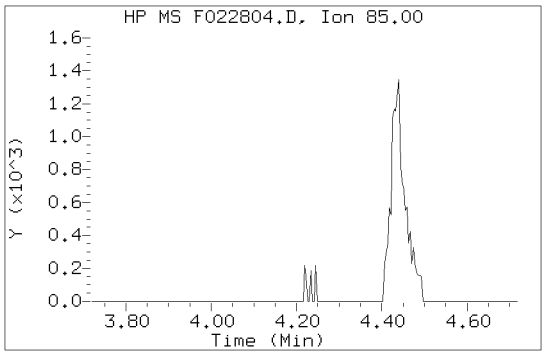
BEFORE

MASS
85
AREA
0
HEIGHT
0
28-Feb-2024
18:07
ALSHS
Server



AFTER

MASS
85
AREA
0
HEIGHT
0
11-Mar-2024
13:57
ALSHS
Ser



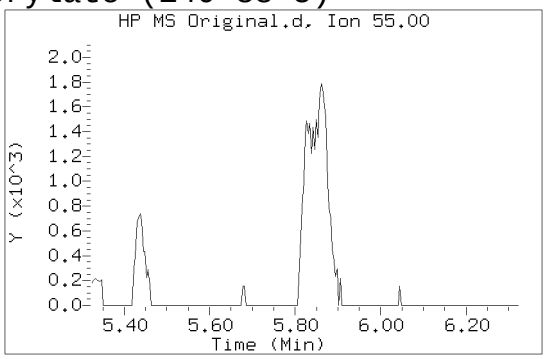
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Inj Date : 28-FEB-2024 17:51
InstruID : voa10.i
LabSampID : VSTD001

Ethyl Acrylate (140-88-5)

Reason Code:

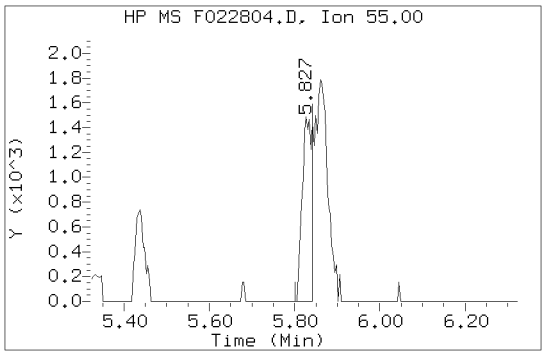
BEFORE

MASS
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AREA
0
HEIGHT
0
28-Feb-2024
18:07
ALSHS
Server



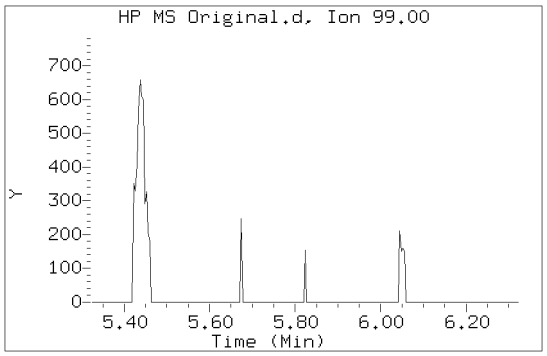
AFTER

MASS
55
AREA
2458
HEIGHT
1488
11-Mar-2024
13:57
ALSHS
Ser



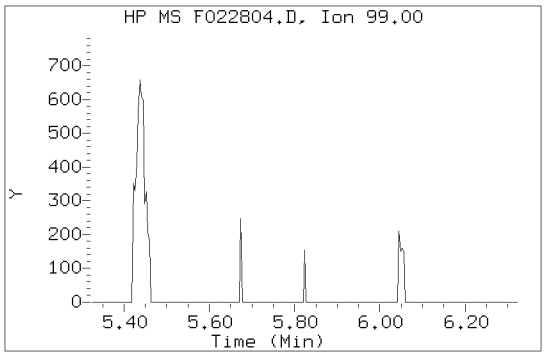
BEFORE

MASS
99
AREA
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HEIGHT
0
28-Feb-2024
18:07
ALSHS
Server



AFTER

MASS
99
AREA
0
HEIGHT
0
11-Mar-2024
13:57
ALSHS
Ser

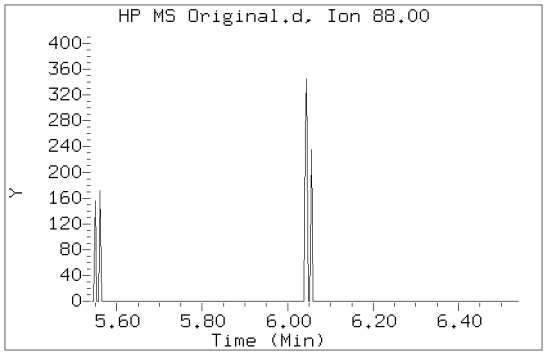


1,4-Dioxane ()

Reason Code:

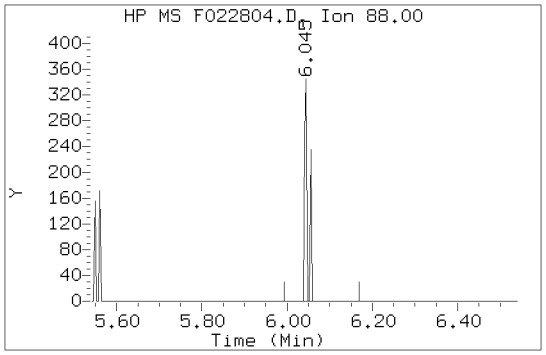
BEFORE

MASS
88
AREA
0
HEIGHT
0
28-Feb-2024
18:07
ALSHS
Server



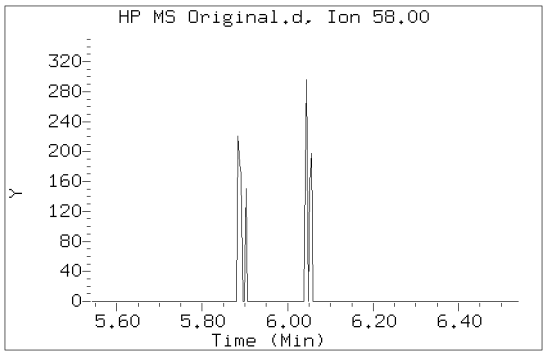
AFTER

MASS
88
AREA
188
HEIGHT
345
11-Mar-2024
13:57
ALSHS
Ser



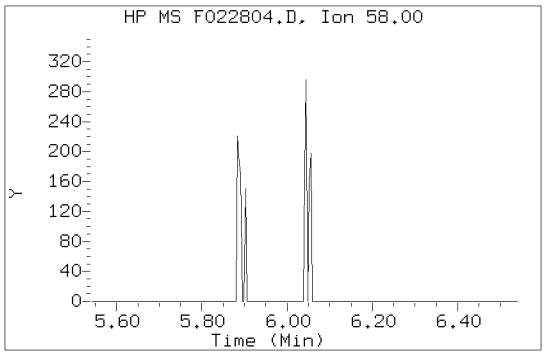
BEFORE

MASS
58
AREA
0
HEIGHT
0
28-Feb-2024
18:07
ALSHS
Server



AFTER

MASS
58
AREA
0
HEIGHT
0
11-Mar-2024
13:57
ALSHS
Ser

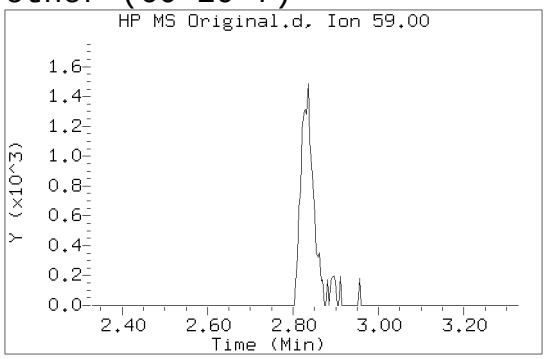


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Inj Date : 28-FEB-2024 17:51
InstruID : voa10.i
LabSampID : VSTD001

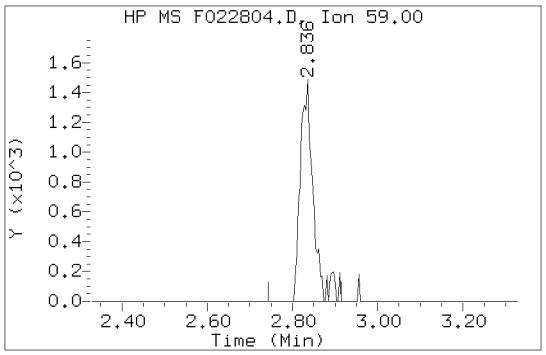
Diethyl ether (60-29-7)

Reason Code:

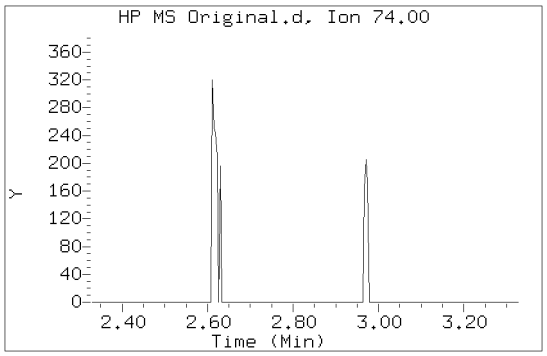
BEFORE
MASS
59
AREA
0
HEIGHT
0
28-Feb-2024
18:07
ALSHS
Server



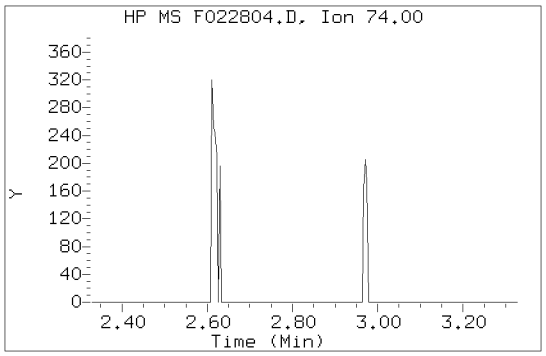
AFTER
MASS
59
AREA
3227
HEIGHT
1486
11-Mar-2024
13:57
ALSHS
Ser



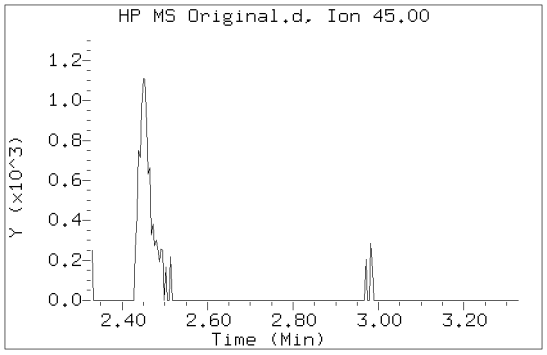
BEFORE
MASS
74
AREA
0
HEIGHT
0
28-Feb-2024
18:07
ALSHS
Server



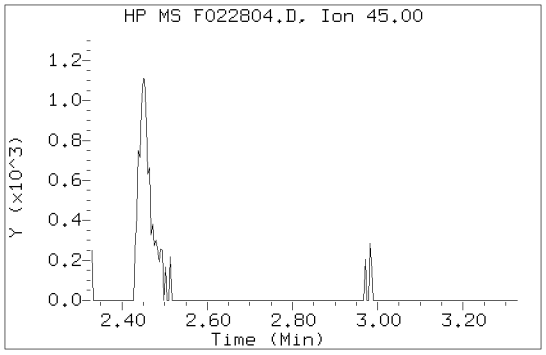
AFTER
MASS
74
AREA
0
HEIGHT
0
11-Mar-2024
13:57
ALSHS
Ser



BEFORE
MASS
45
AREA
0
HEIGHT
0
28-Feb-2024
18:07
ALSHS
Server



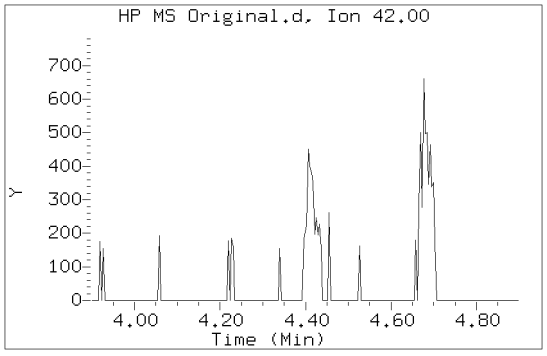
AFTER
MASS
45
AREA
0
HEIGHT
0
11-Mar-2024
13:57
ALSHS
Ser



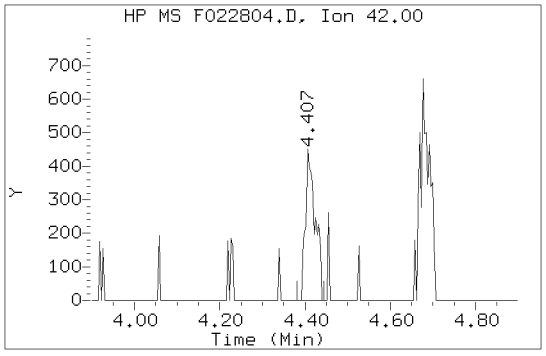
Tetrahydrofuran (109-99-9)

Reason Code:

BEFORE
MASS
42
AREA
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HEIGHT
0
28-Feb-2024
18:07
ALSHS
Server



AFTER
MASS
42
AREA
722
HEIGHT
451
11-Mar-2024
13:57
ALSHS
Ser



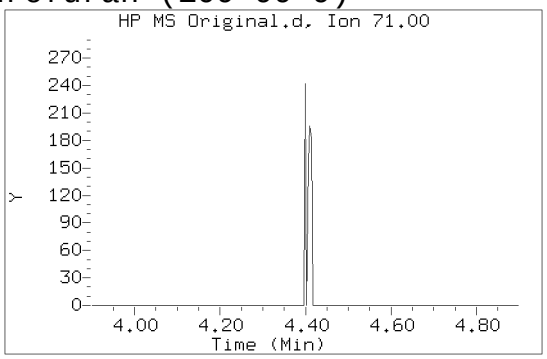
Data File : \\NAHSTWS005\Target\chem\voa10.i\G240228.b\F022804.D
Inj Date : 28-FEB-2024 17:51
InstruID : voa10.i
LabSampID : VSTD001

Tetrahydrofuran (109-99-9)

Reason Code:

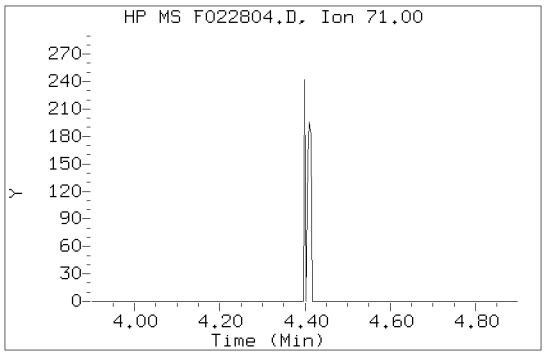
BEFORE

MASS
71
AREA
0
HEIGHT
0
28-Feb-2024
18:07
ALSHS
Server



AFTER

MASS
71
AREA
0
HEIGHT
0
11-Mar-2024
13:57
ALSHS
Ser

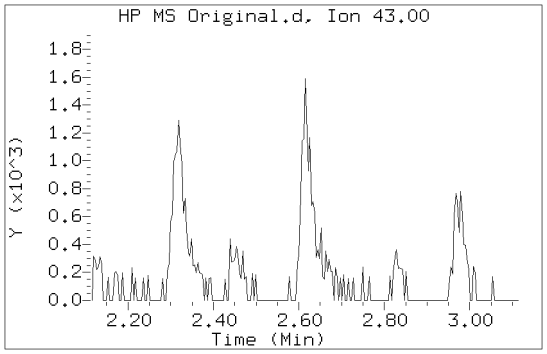


Methyl Acetate (79-20-9)

Reason Code:

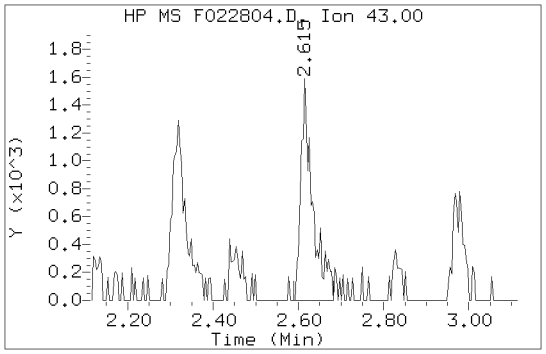
BEFORE

MASS
43
AREA
0
HEIGHT
0
28-Feb-2024
18:07
ALSHS
Server



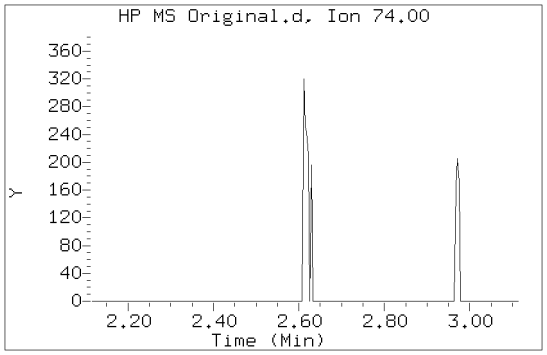
AFTER

MASS
43
AREA
3095
HEIGHT
1590
11-Mar-2024
13:57
ALSHS
Ser



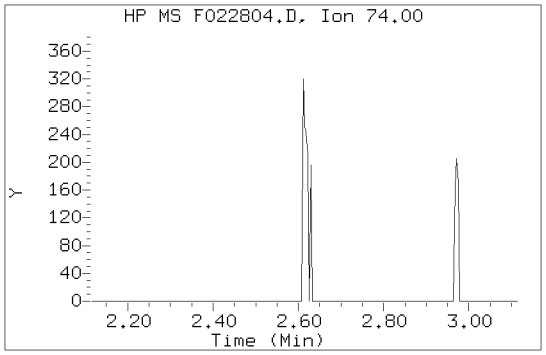
BEFORE

MASS
74
AREA
0
HEIGHT
0
28-Feb-2024
18:07
ALSHS
Server



AFTER

MASS
74
AREA
0
HEIGHT
0
11-Mar-2024
13:57
ALSHS
Ser

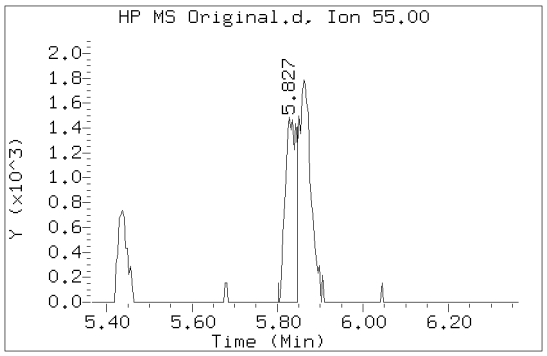


Methylcyclohexane (108-87-2)

Reason Code:

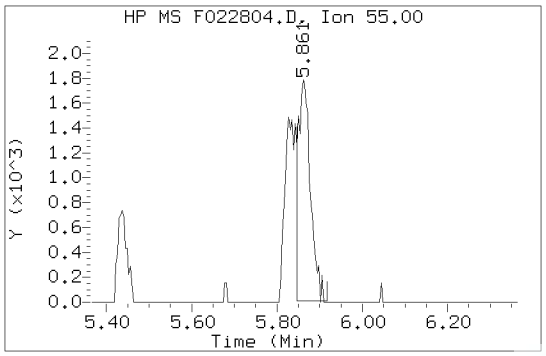
BEFORE

MASS
55
AREA
2741
HEIGHT
1488
28-Feb-2024
18:07
ALSHS
Server



AFTER

MASS
55
AREA
3651
HEIGHT
1776
11-Mar-2024
13:57
ALSHS
Ser



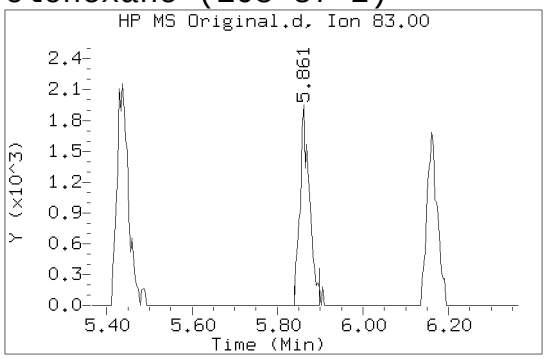
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Inj Date : 28-FEB-2024 17:51
InstruID : voa10.i
LabSampID : VSTD001

Methylcyclohexane (108-87-2)

Reason Code:

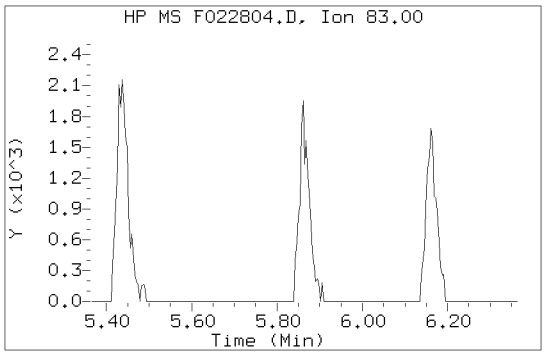
BEFORE

MASS
83
AREA
3093
HEIGHT
1954
28-Feb-2024
18:07
ALSHS
Server



AFTER

MASS
83
AREA
0
HEIGHT
0
11-Mar-2024
13:57
ALSHS
Ser

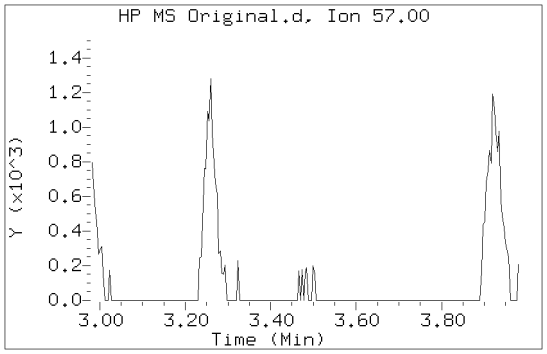


Allyl alcohol (107-18-6)

Reason Code:

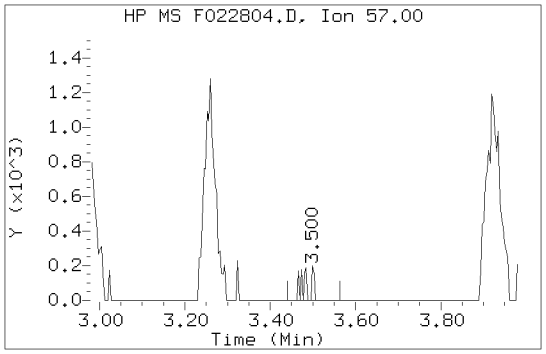
BEFORE

MASS
57
AREA
0
HEIGHT
0
28-Feb-2024
18:07
ALSHS
Server



AFTER

MASS
57
AREA
236
HEIGHT
200
11-Mar-2024
13:57
ALSHS
Ser

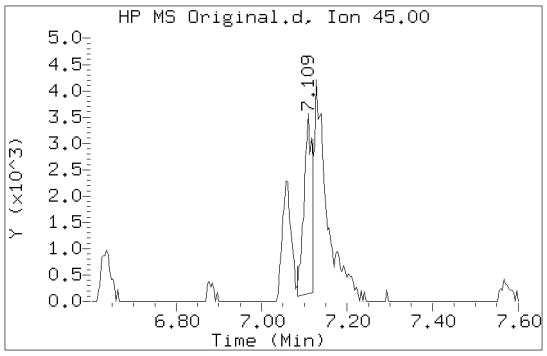


4-Methyl-2-pentanol (108-11-2)

Reason Code:

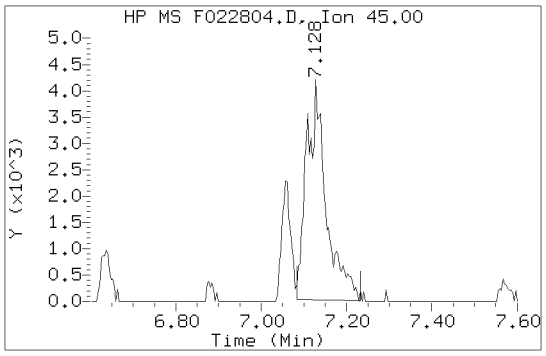
BEFORE

MASS
45
AREA
4737
HEIGHT
3416
28-Feb-2024
18:07
ALSHS
Server



AFTER

MASS
45
AREA
13443
HEIGHT
4181
11-Mar-2024
13:57
ALSHS
Ser



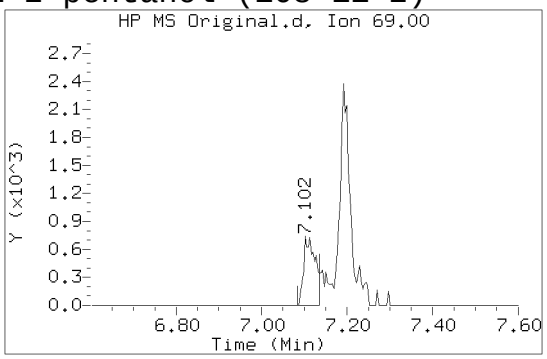
Data File : \\NAHSTWS005\Target\chem\voa10.i\G240228.b\F022804.D
Inj Date : 28-FEB-2024 17:51
InstruID : voa10.i
LabSampID : VSTD001

4-Methyl-2-pentanol (108-11-2)

Reason Code:

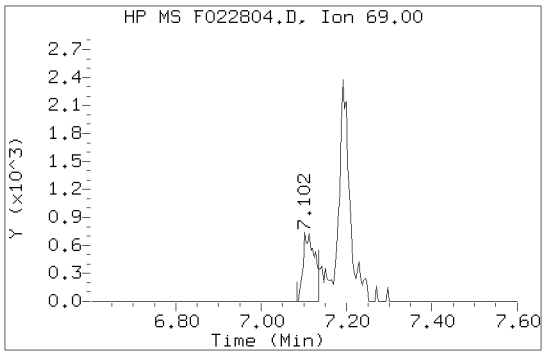
BEFORE

MASS
69
AREA
1426
HEIGHT
744
28-Feb-2024
18:07
ALSHS
Server



AFTER

MASS
69
AREA
1426
HEIGHT
744
11-Mar-2024
13:57
ALSHS
Ser

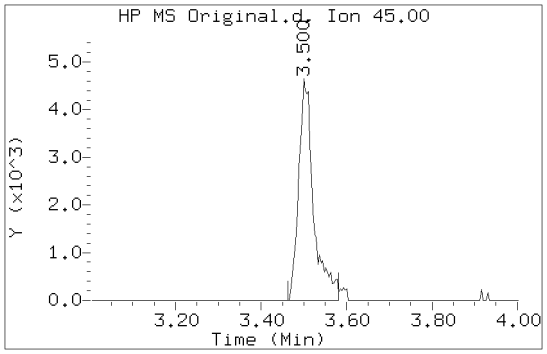


Diisopropyl ether (108-20-3)

Reason Code:

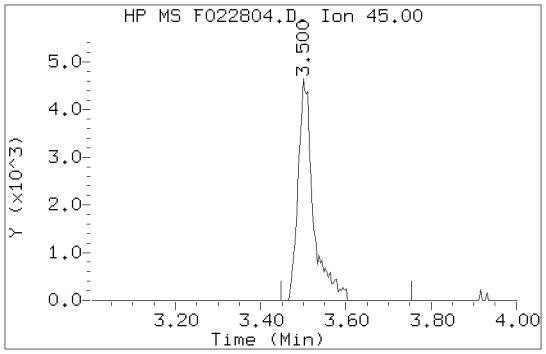
BEFORE

MASS
45
AREA
11457
HEIGHT
4648
28-Feb-2024
18:07
ALSHS
Server



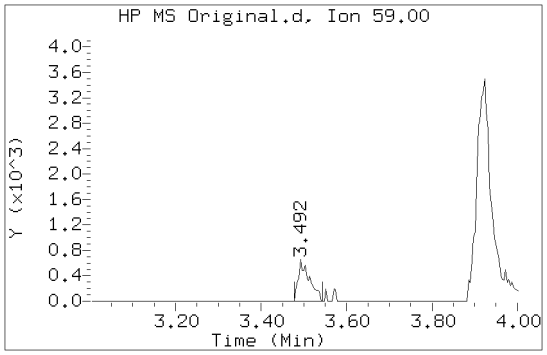
AFTER

MASS
45
AREA
11717
HEIGHT
4648
11-Mar-2024
13:57
ALSHS
Ser



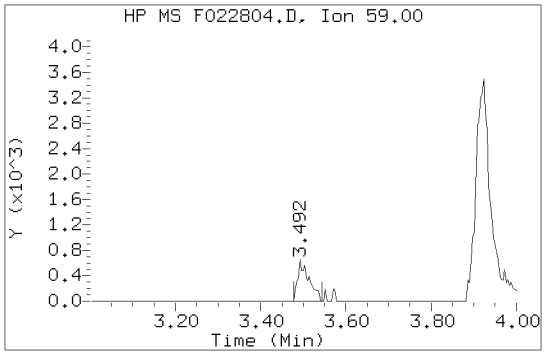
BEFORE

MASS
59
AREA
1199
HEIGHT
660
28-Feb-2024
18:07
ALSHS
Server



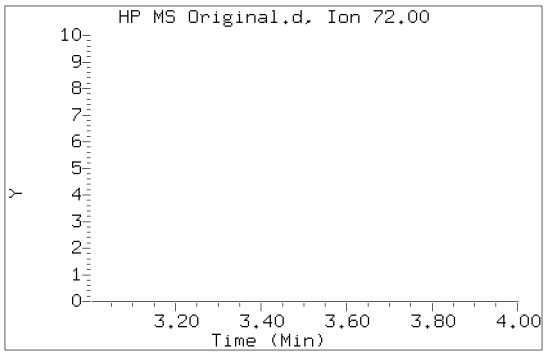
AFTER

MASS
59
AREA
1199
HEIGHT
660
11-Mar-2024
13:57
ALSHS
Ser



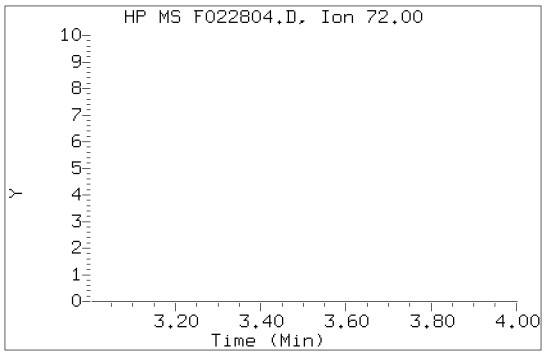
BEFORE

MASS
72
AREA
0
HEIGHT
0
28-Feb-2024
18:07
ALSHS
Server



AFTER

MASS
72
AREA
0
HEIGHT
0
11-Mar-2024
13:57
ALSHS
Ser

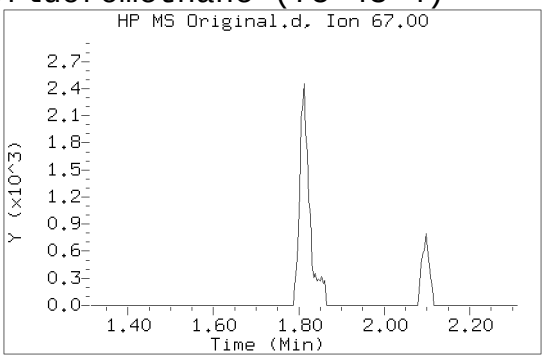


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Inj Date : 28-FEB-2024 17:51
InstruID : voa10.i
LabSampID : VSTD001

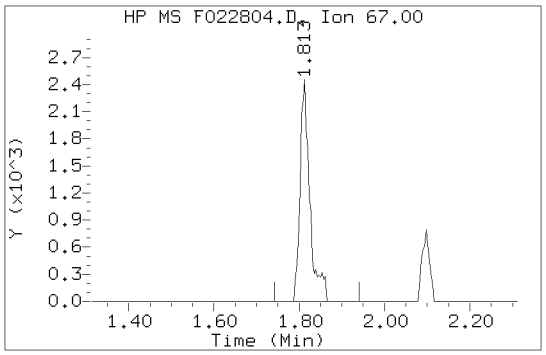
Dichlorofluoromethane (75-43-4)

Reason Code:

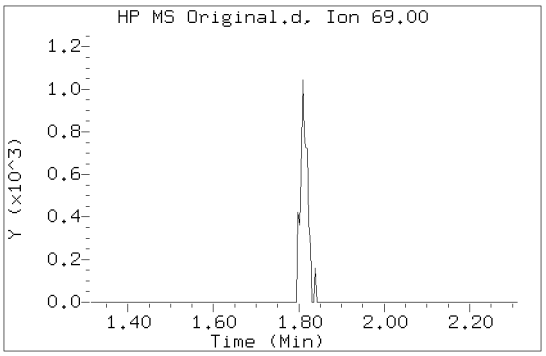
BEFORE
MASS
67
AREA
0
HEIGHT
0
28-Feb-2024
18:07
ALSHS
Server



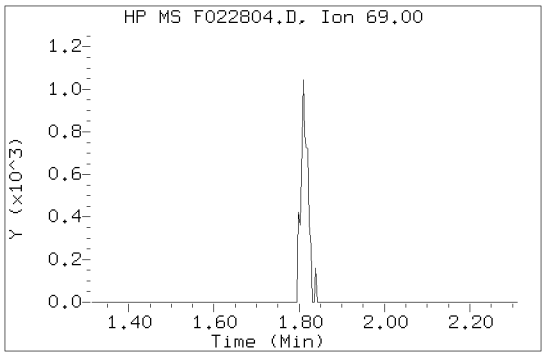
AFTER
MASS
67
AREA
4013
HEIGHT
2455
11-Mar-2024
13:57
ALSHS
Ser



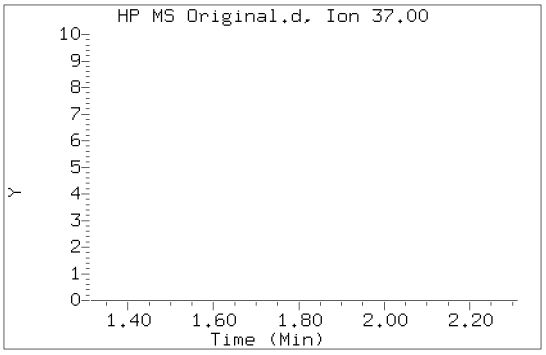
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MASS
69
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HEIGHT
0
28-Feb-2024
18:07
ALSHS
Server



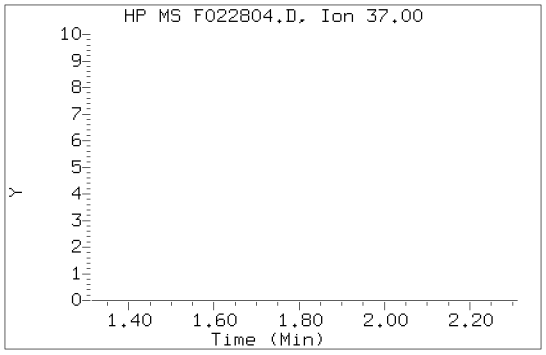
AFTER
MASS
69
AREA
0
HEIGHT
0
11-Mar-2024
13:57
ALSHS
Ser



BEFORE
MASS
37
AREA
0
HEIGHT
0
28-Feb-2024
18:07
ALSHS
Server



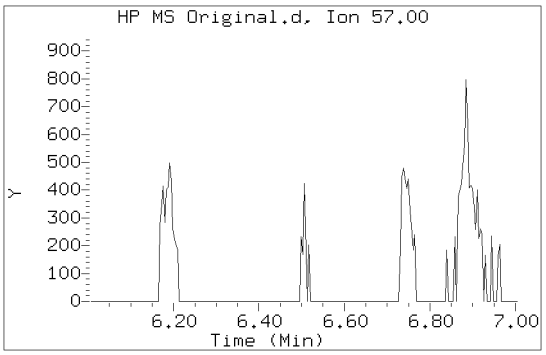
AFTER
MASS
37
AREA
0
HEIGHT
0
11-Mar-2024
13:57
ALSHS
Ser



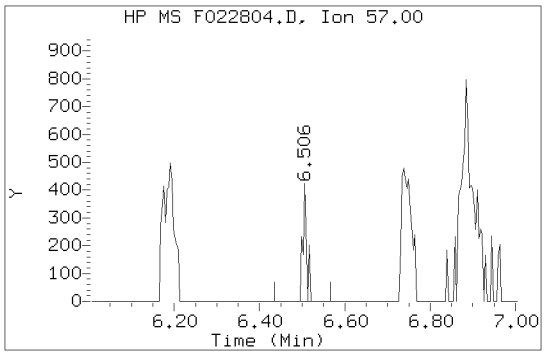
Epichlorohydrin (106-89-8)

Reason Code:

BEFORE
MASS
57
AREA
0
HEIGHT
0
28-Feb-2024
18:07
ALSHS
Server



AFTER
MASS
57
AREA
291
HEIGHT
425
11-Mar-2024
13:57
ALSHS
Ser



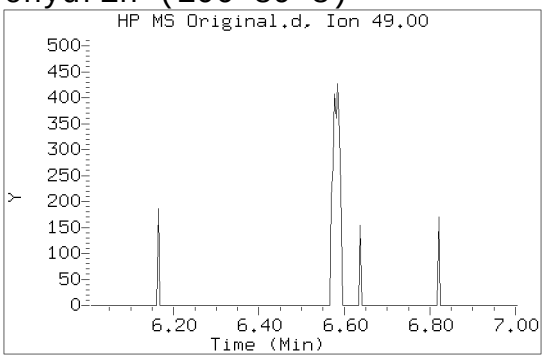
Data File : \\NAHSTWS005\Target\chem\voa10.i\G240228.b\F022804.D
Inj Date : 28-FEB-2024 17:51
InstruID : voa10.i
LabSampID : VSTD001

Epichlorohydrin (106-89-8)

Reason Code:

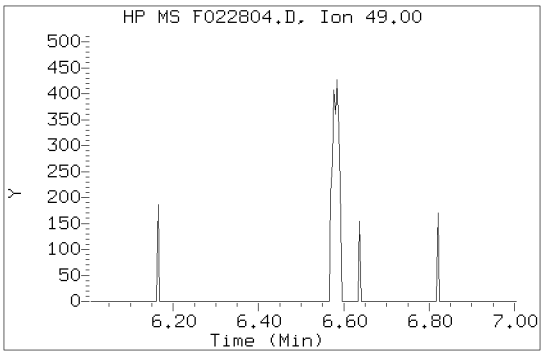
BEFORE

MASS
49
AREA
0
HEIGHT
0
28-Feb-2024
18:07
ALSHS
Server



AFTER

MASS
49
AREA
0
HEIGHT
0
11-Mar-2024
13:57
ALSHS
Ser

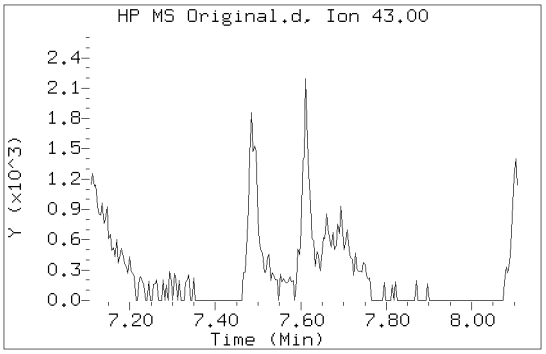


n-Butyl acetate (123-86-4)

Reason Code:

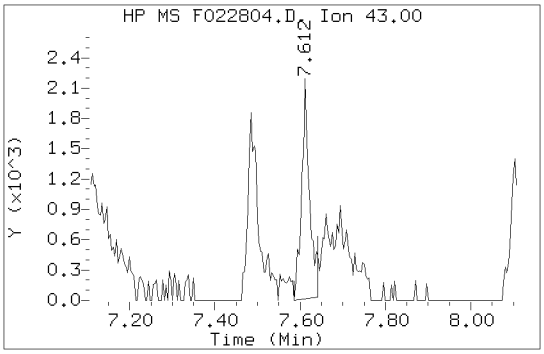
BEFORE

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43
AREA
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HEIGHT
0
28-Feb-2024
18:07
ALSHS
Server



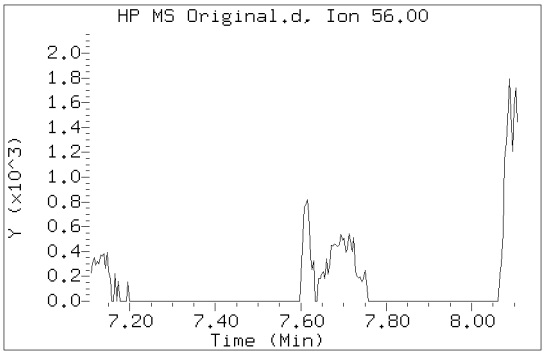
AFTER

MASS
43
AREA
2886
HEIGHT
2178
11-Mar-2024
13:57
ALSHS
Ser



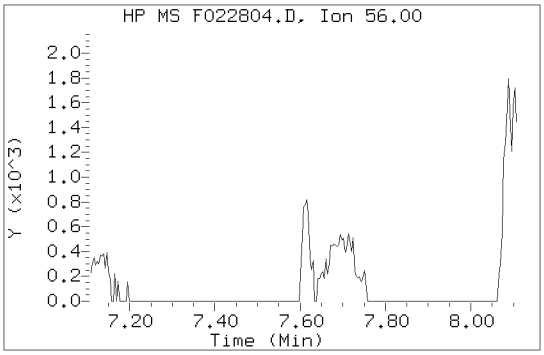
BEFORE

MASS
56
AREA
0
HEIGHT
0
28-Feb-2024
18:07
ALSHS
Server



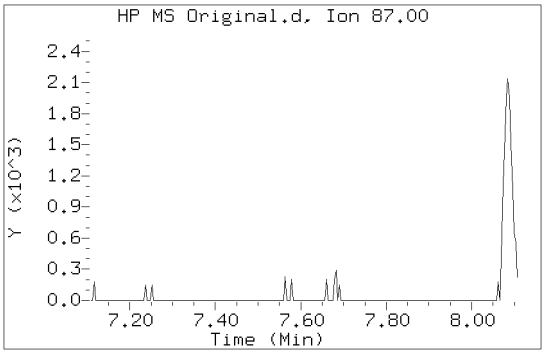
AFTER

MASS
56
AREA
0
HEIGHT
0
11-Mar-2024
13:57
ALSHS
Ser



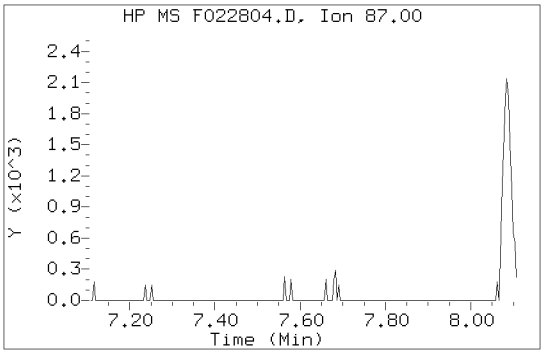
BEFORE

MASS
87
AREA
0
HEIGHT
0
28-Feb-2024
18:07
ALSHS
Server



AFTER

MASS
87
AREA
0
HEIGHT
0
11-Mar-2024
13:57
ALSHS
Ser

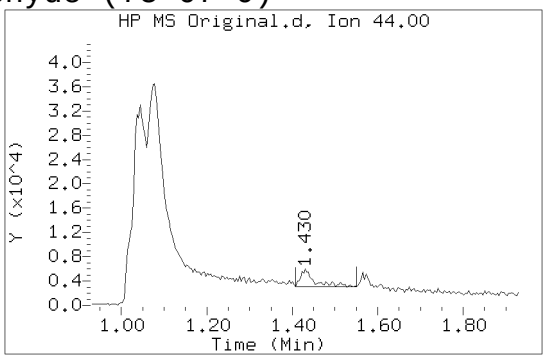


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Inj Date : 28-FEB-2024 17:51
InstruID : voa10.i
LabSampID : VSTD001

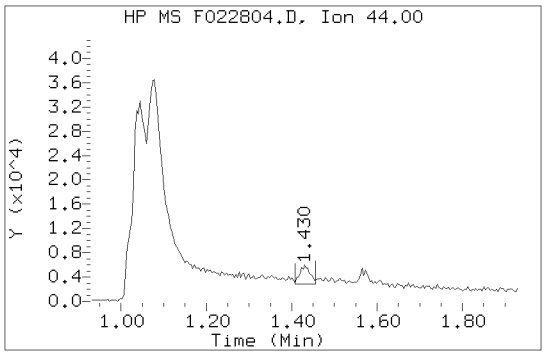
Acetaldehyde (75-07-0)

Reason Code:

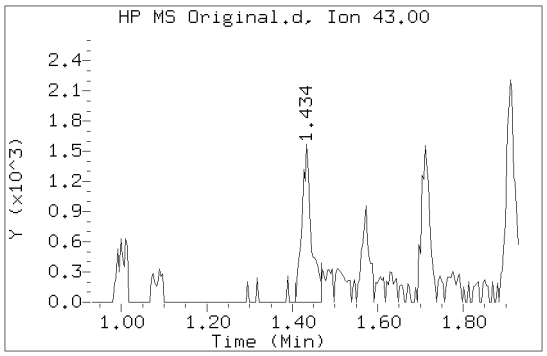
BEFORE
MASS
44
AREA
7004
HEIGHT
3014
28-Feb-2024
18:07
ALSHS
Server



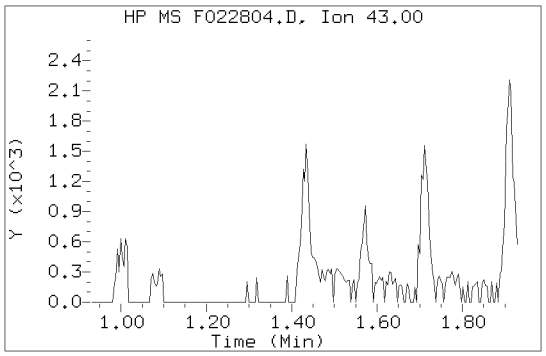
AFTER
MASS
44
AREA
5299
HEIGHT
3187
11-Mar-2024
13:57
ALSHS
Ser



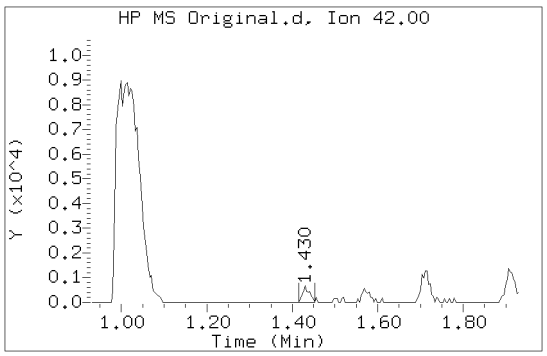
BEFORE
MASS
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AREA
2475
HEIGHT
1574
28-Feb-2024
18:07
ALSHS
Server



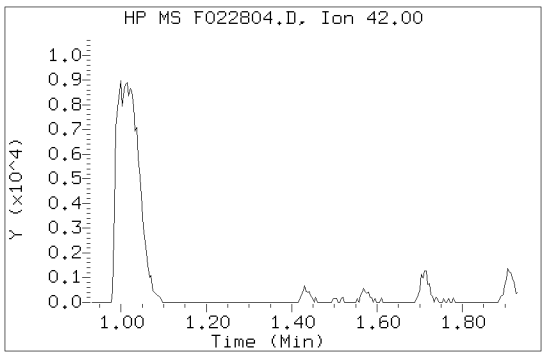
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11-Mar-2024
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Ser



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11-Mar-2024
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ALSHS
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Data File: \\NAHSTWS005\Target\chem\voa10.i\G240228.b\F022805.D Page 1
Report Date: 11-Mar-2024 13:59

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa10.i\G240228.b\F022805.D
Lab Smp Id: VSTD002 Client Smp ID: VSTD002
Inj Date : 28-FEB-2024 18:12
Operator : FT Inst ID: voa10.i
Smp Info : VSTD002;VSTD002;1;4;;
Misc Info : V10;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa10.i\G240228.b\8260W.m
Meth Date : 11-Mar-2024 13:59 voa10.i Quant Type: ISTD
Cal Date : 28-FEB-2024 17:51 Cal File: F022804.D
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 01_STD_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.695	4.695	(1.000)	230415	50.0000	
2	Dichlorodifluoromethane	85	1.149	1.149	(0.245)	3821	2.00000	1.92(a)
3	Chloromethane	50	1.280	1.280	(0.273)	8280	2.00000	1.97(a)
4	Propionitrile	54	4.151	4.151	(0.884)	5173	20.0000	19.38(aM)
5	Vinyl Chloride	62	1.355	1.355	(0.289)	5493	2.00000	2.00(aM)
6	Bromomethane	94	1.587	1.587	(0.338)	1979	2.00000	1.11(a)
7	Chloroethane	64	1.658	1.658	(0.353)	3000	2.00000	1.85(a)
8	Trichlorofluoromethane	101	1.850	1.850	(0.394)	5637	2.00000	2.08(aM)
9	Acrolein	56	3.169	3.169	(0.675)	2645	4.00000	3.82(a)
10	Acetone	43	2.322	2.322	(0.495)	3599	4.00000	4.08(aM)
11	1,1-Dichloroethene	96	2.266	2.266	(0.483)	2912	2.00000	1.76(a)
12	Isobutyl Alcohol	43	5.167	5.167	(1.101)	9798	40.0000	30.85(M)
13	Acetonitrile	39	2.584	2.584	(0.550)	6616	20.0000	34.55
14	Allyl Chloride	41	2.581	2.581	(0.550)	11174	2.00000	1.72
15	Iodomethane	142	2.393	2.393	(0.510)	3481	4.00000	6.36(T)
16	Acrylonitrile	53	2.940	2.940	(0.626)	2642	4.00000	0.77(aM)
17	Methylene Chloride	84	2.704	2.704	(0.576)	4821	2.00000	2.08(a)
18	Methyl tert-butyl ether	73	2.982	2.982	(0.635)	9494	2.00000	1.71
19	Carbon Disulfide	76	2.449	2.449	(0.522)	23204	4.00000	5.69
20	trans-1,2-Dichloroethene	96	2.959	2.959	(0.630)	4032	2.00000	2.06(a)

21 Vinyl Acetate	43	3.480	3.480 (0.741)	16461	4.00000	3.51(aM)
22 1,1-Dichloroethane	63	3.394	3.394 (0.723)	8248	2.00000	2.07(aM)

Data File: \\NAHSTWS005\Target\chem\voa10.i\G240228.b\F022805.D Page 2
Report Date: 11-Mar-2024 13:59

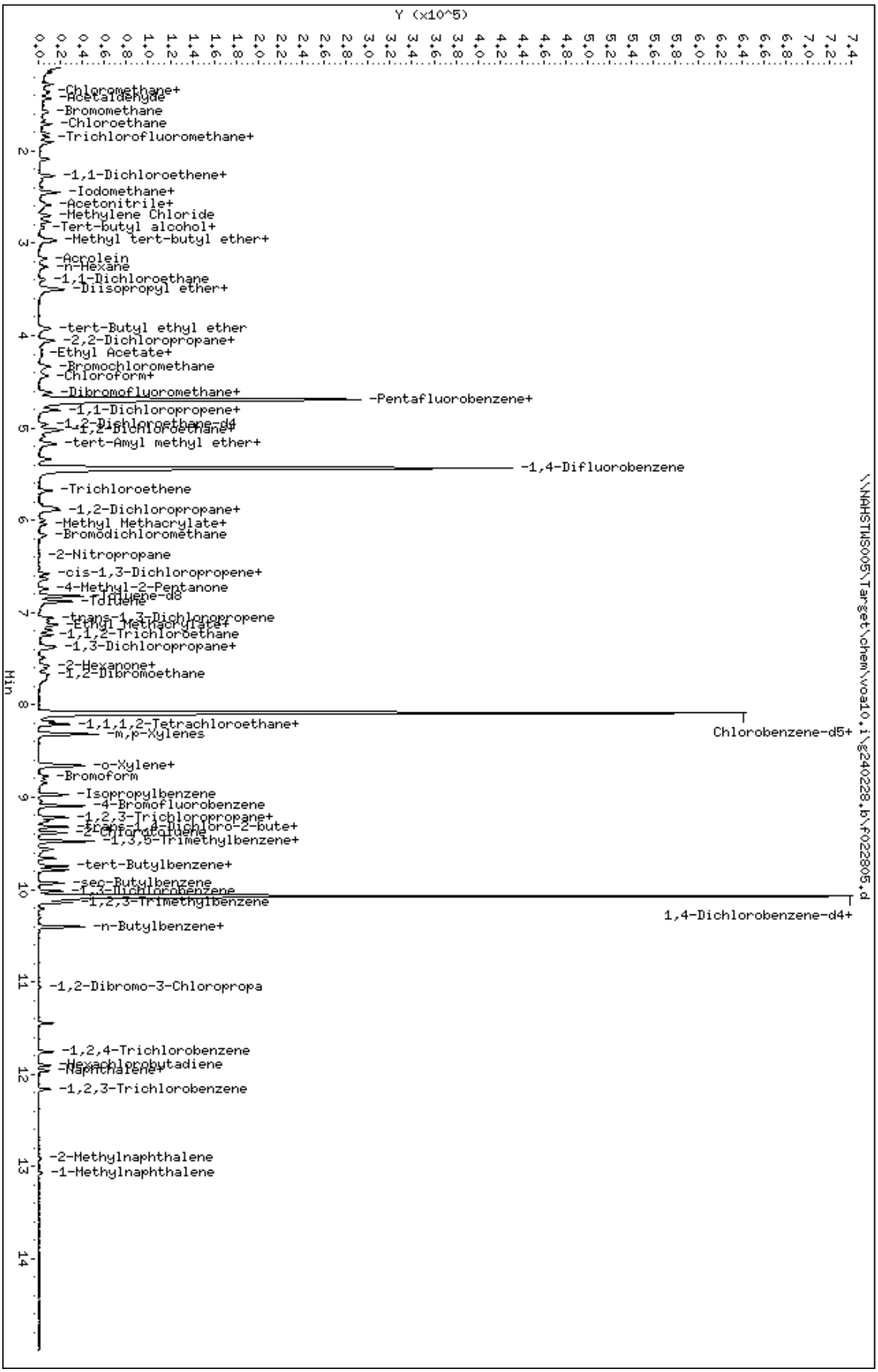
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								CAL-AMT	ON-COL
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
	24	2-Butanone	43	4.110	4.110	(0.875)	2705	4.00000	4.68(aM)
	25	Methacrylonitrile	41	4.050	4.050	(0.863)	4533	2.00000	0.98(aM)
	26	2,2-Dichloropropane	77	4.058	4.058	(0.864)	5057	2.00000	1.86(a)
	27	cis-1,2-Dichloroethene	96	4.061	4.061	(0.865)	4443	2.00000	2.06(a)
	28	Chloroform	83	4.440	4.440	(0.946)	7786	2.00000	1.47(a)
	29	Bromochloromethane	128	4.331	4.331	(0.923)	1614	2.00000	1.85(a)
$	30	Dibromofluoromethane	113	4.612	4.612	(0.982)	4488	2.00000	2.49(a)
	31	1,1,1-Trichloroethane	97	4.627	4.627	(0.986)	5711	2.00000	1.94(a)
	32	1,1-Dichloropropene	75	4.807	4.807	(0.885)	6096	2.00000	2.00(a)
	33	1,2-Dichloroethane	62	5.040	5.040	(0.928)	5867	2.00000	1.96(a)
	34	Carbon Tetrachloride	117	4.807	4.807	(0.885)	4642	2.00000	1.44(a)
$	35	1,2-Dichloroethane-d4	65	4.965	4.965	(1.057)	6010	2.00000	2.07(a)
*	36	1,4-Difluorobenzene	114	5.433	5.433	(1.000)	347172	50.0000	
	37	Benzene	78	5.021	5.021	(0.924)	18013	2.00000	1.94
	38	Trichloroethene	130	5.684	5.684	(1.046)	3986	2.00000	1.92(a)
	39	Bromodichloromethane	83	6.161	6.161	(1.134)	4820	2.00000	1.76(aM)
	40	Methyl Methacrylate	41	6.044	6.044	(1.287)	3810	2.00000	1.64
	42	1,2-Dichloropropane	63	5.891	5.891	(1.084)	4746	2.00000	1.90(a)
	43	2-Nitropropane	43	6.382	6.382	(1.359)	729	2.00000	2.55(aM)
	44	Dibromomethane	93	5.996	5.996	(1.103)	1914	2.00000	1.73(a)
	45	4-Methyl-2-Pentanone	43	6.742	6.742	(0.834)	6632	4.00000	4.12(a)
	46	cis-1,3-Dichloropropene	75	6.584	6.584	(1.212)	5413	2.00000	1.73(a)
*	47	Chlorobenzene-d5	117	8.087	8.087	(1.000)	298378	50.0000	
$	48	Toluene-d8	98	6.824	6.824	(0.844)	23447	2.00000	1.89(a)
	49	Ethyl Methacrylate	69	7.154	7.154	(1.317)	2256	2.00000	0.51(aM)
	50	Toluene	91	6.880	6.880	(0.851)	17200	2.00000	1.87
	51	trans-1,3-Dichloropropene	75	7.090	7.090	(1.305)	3869	2.00000	1.61(a)
	52	2-Hexanone	43	7.484	7.484	(0.925)	5351	4.00000	3.33(a)
	53	1,1,2-Trichloroethane	83	7.236	7.236	(0.895)	2671	2.00000	1.70(a)
	54	1,3-Dichloropropane	76	7.386	7.386	(0.913)	5972	2.00000	1.73(a)
	55	Dibromochloromethane	129	7.585	7.585	(0.938)	3114	2.00000	1.68(a)
	56	Tetrachloroethene	164	7.364	7.364	(0.911)	3013	2.00000	1.87(a)
	57	1,2-Dibromoethane	107	7.675	7.675	(0.949)	3013	2.00000	1.74(a)
	58	1-Chlorohexane	55	8.102	8.102	(1.491)	7235	2.00000	2.75(a)
	59	Chlorobenzene	112	8.110	8.110	(1.003)	10326	2.00000	1.90(a)
	60	1,1,1,2-Tetrachloroethane	131	8.181	8.181	(1.012)	3034	2.00000	1.61(a)
	61	Ethylbenzene	106	8.215	8.215	(1.016)	5381	2.00000	1.96
	62	m,p-Xylenes	106	8.316	8.316	(1.028)	12604	4.00000	3.58
	63	o-Xylene	106	8.650	8.650	(1.070)	5918	2.00000	1.74
	64	Styrene	104	8.665	8.665	(1.071)	8853	2.00000	1.61(a)
	66	Bromoform	173	8.807	8.807	(1.089)	2129	2.00000	1.70(Ta)
	67	Isopropylbenzene	105	8.972	8.972	(1.109)	14958	2.00000	1.75(a)
	68	1,1,2,2-Tetrachloroethane	83	9.223	9.223	(0.916)	4175	2.00000	1.75(aM)
$	69	4-Bromofluorobenzene	95	9.096	9.096	(1.125)	11729	2.00000	1.81(a)
*	70	1,4-Dichlorobenzene-d4	152	10.070	10.070	(1.000)	156847	50.0000	
	71	1,2,3-Trichloropropane	75	9.253	9.253	(0.919)	4292	2.00000	2.36(a)
	72	trans-1,4-Dichloro-2-butene	53	9.272	9.272	(1.146)	832	2.00000	1.38
	73	n-Propylbenzene	91	9.321	9.321	(0.926)	17697	2.00000	1.80(a)
	74	Bromobenzene	156	9.216	9.216	(0.915)	4172	2.00000	1.82(a)
	75	1,3,5-Trimethylbenzene	105	9.474	9.474	(0.941)	11879	2.00000	1.74(a)
	76	2-Chlorotoluene	91	9.388	9.388	(0.932)	11411	2.00000	1.84(a)
	77	4-Chlorotoluene	91	9.478	9.478	(0.941)	12909	2.00000	1.81(a)

78	tert-Butylbenzene	119	9.748	9.748 (0.968)	10764	2.00000	1.90(a)
79	1,2,4-Trimethylbenzene	105	9.785	9.785 (0.972)	12052	2.00000	1.74(a)

						AMOUNTS	
		QUANT SIG				CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
	81 sec-Butylbenzene	105	9.932	9.932	(0.986)	13404	2.00000	1.73(a)
	82 p-Isopropyltoluene	119	10.059	10.059	(0.999)	11456	2.00000	1.73(a)
	83 1,3-Dichlorobenzene	146	10.014	10.014	(0.994)	7679	2.00000	1.84(a)
	84 1,4-Dichlorobenzene	146	10.093	10.093	(1.002)	8233	2.00000	1.85(a)
	87 n-Butylbenzene	91	10.404	10.404	(1.033)	10837	2.00000	1.67(a)
	88 1,2-Dichlorobenzene	146	10.404	10.404	(1.033)	7645	2.00000	1.85(a)
	89 1,2-Dibromo-3-Chloropropane	155	11.056	11.056	(1.098)	401	2.00000	1.84(aM)
	90 1,2,4-Trichlorobenzene	180	11.757	11.757	(1.168)	3874	2.00000	1.66(a)
	91 Hexachlorobutadiene	225	11.903	11.903	(1.182)	2057	2.00000	2.52(a)
	92 Naphthalene	128	11.960	11.960	(1.188)	7297	2.00000	1.97(a)
	93 1,2,3-Trichlorobenzene	180	12.162	12.162	(1.208)	3263	2.00000	2.10(a)
	135 1,4-Dioxane	88	6.048	6.048	(1.288)	517	40.0000	21.80(aM)
	130 Ethyl Acetate	43	4.196	4.196	(0.894)	3727	2.00000	1.55(aM)
	136 n-Hexane	57	3.255	3.255	(0.693)	4114	2.00000	1.71(a)
	138 Freon TF	101	2.273	2.273	(0.484)	3076	2.00000	1.83(a)
	139 Diethyl ether	59	2.832	2.832	(0.603)	3835	2.00000	1.37(aM)
	141 Cyclohexane	56	4.687	4.687	(0.998)	11456	2.00000	1.81(a)
	142 Tetrahydrofuran	42	4.410	4.410	(0.939)	1159	4.00000	3.65(aM)
	146 Methyl Acetate	43	2.614	2.614	(0.557)	5089	2.00000	1.81(aM)
	147 Methylcyclohexane	55	5.861	5.861	(1.079)	7081	2.00000	2.09(a)
	148 Tert-butyl alcohol	59	2.832	2.832	(0.603)	3835	40.0000	51.31
	149 Isopropyl alcohol	45	2.453	2.453	(0.523)	2536	40.0000	31.97
	151 4-Methyl-2-pentanol	45	7.131	7.131	(1.313)	18402	40.0000	60.42(M)
	156 Diisopropyl ether	45	3.503	3.503	(0.746)	16586	2.00000	1.84(Ta)
	158 Dichlorofluoromethane	67	1.812	1.812	(0.386)	6652	2.00000	2.05(M)
	166 1,2,3-Trimethylbenzene	105	10.138	10.138	(1.007)	13210	2.00000	1.16(a)
	160 2-Methylnaphthalene	142	12.912	12.912	(1.282)	1416	2.00000	2.77(a)
	180 1-Methylnaphthalene	142	13.069	13.069	(1.298)	1632	2.00000	2.29(a)
	174 tert-Amyl methyl ether	73	5.175	5.175	(1.102)	9535	2.00000	1.64(a)
	175 tert-Butyl ethyl ether	59	3.930	3.930	(0.837)	11039	2.00000	1.66(a)
	132 n-Butanol	56	5.868	5.868	(1.250)	2527	40.0000	46.86(aM)
	140 1,3-Butadiene	54	1.374	1.374	(0.293)	1413	2.00000	1.66(a)
	189 n-Butyl acetate	43	7.611	7.611	(0.941)	5066	2.00000	2.18(aM)
	86 Benzyl Chloride	91	10.404	10.404	(1.286)	10837	2.00000	1.64(a)
	182 Epichlorohydrin	57	6.517	6.517	(1.199)	538	8.00000	14.73(M)
	150 Allyl alcohol	57	3.469	3.469	(0.739)	477	40.0000	48.02(M)
	162 Butyl acrylate	55	8.646	8.646	(1.069)	6583	2.00000	3.41(a)
	194 Acetaldehyde	44	1.426	1.426	(0.304)	8359	8.00000	5.09(M)
	131 Methyl Acrylate	55	4.222	4.222	(0.899)	3455	2.00000	1.82(aM)
	133 Ethyl Acrylate	55	5.831	5.831	(1.242)	3530	2.00000	1.43(aM)
M	94 1,2-Dichloroethylene (total)	96				8475	4.00000	(a)
M	95 Xylenes (total)	106				18522	6.00000	(a)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Client ID: VSTD002
Sample Info: VSTD002;VSTD002;1;4;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa10.i
Operator: FT
Column diameter: 0.18

Page 1

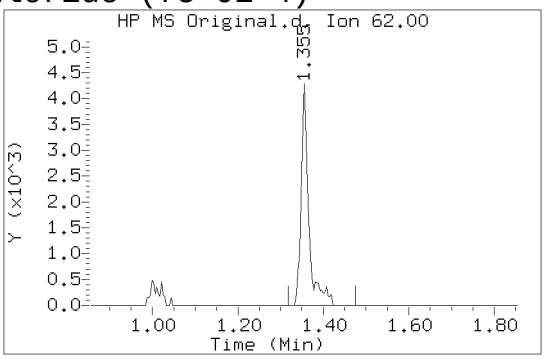
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InstruID : voa10.i
LabSampID : VSTD002

Vinyl Chloride (75-01-4)

Reason Code:

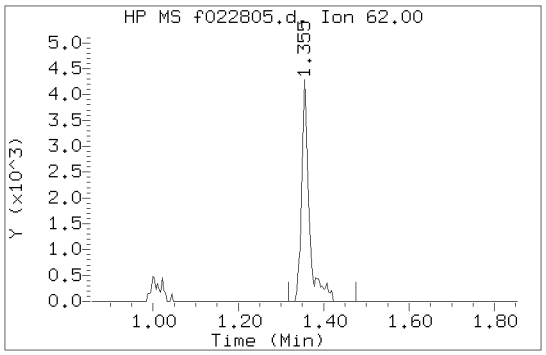
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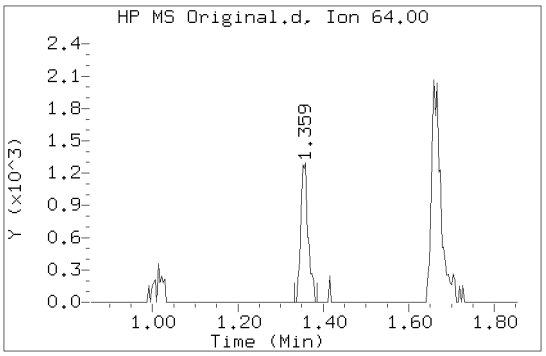
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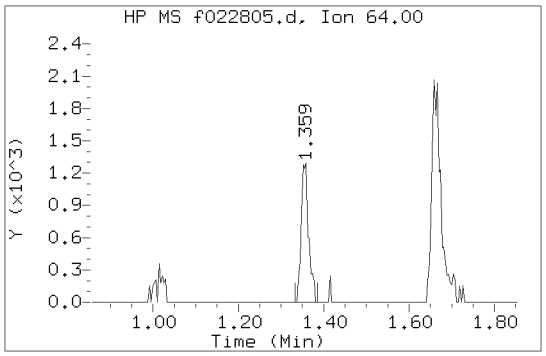
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AFTER

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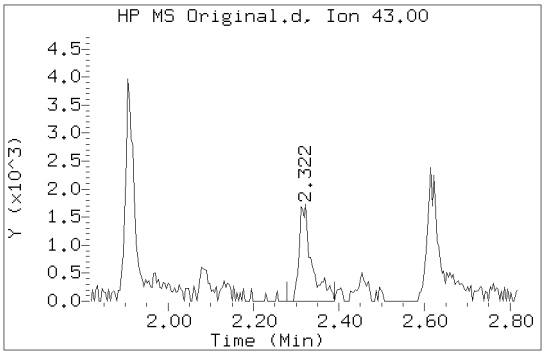


Acetone (67-64-1)

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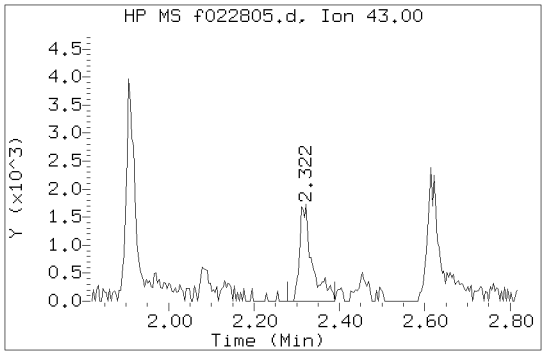
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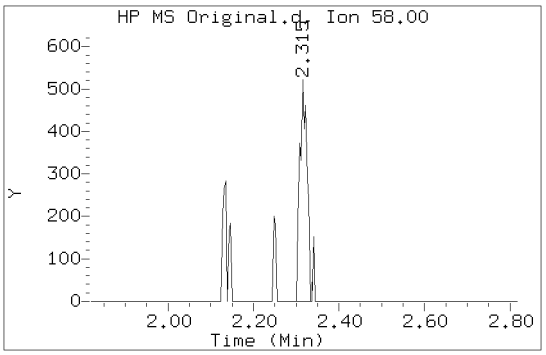
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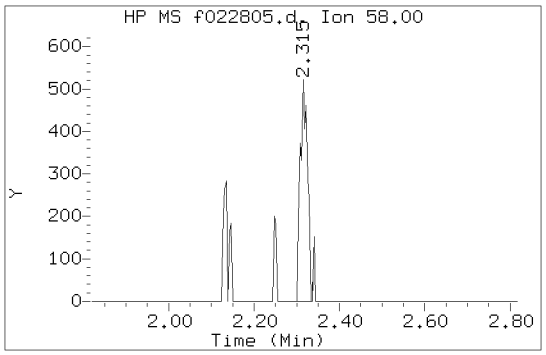
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AFTER

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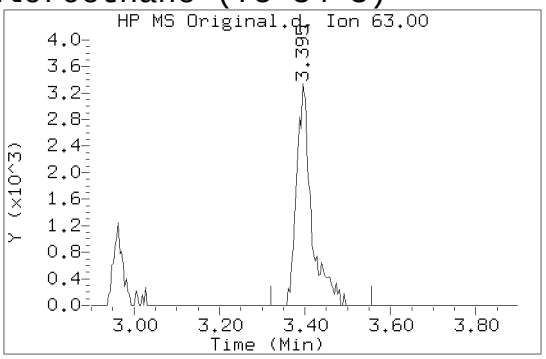


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LabSampID : VSTD002

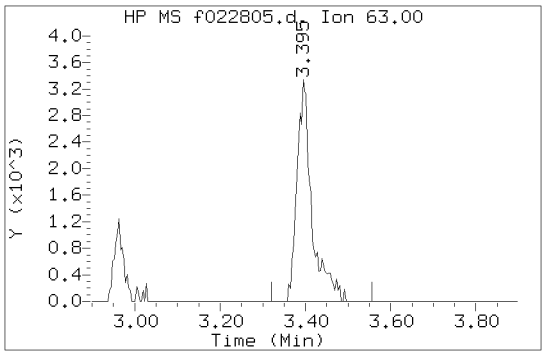
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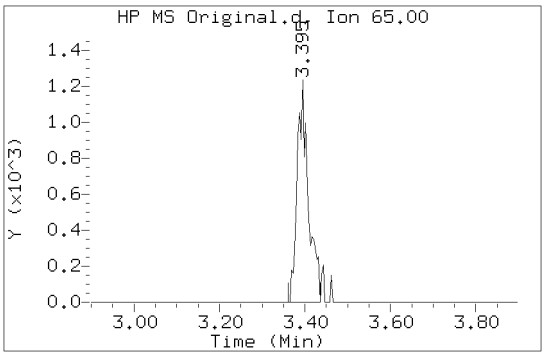
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11-Mar-2024
13:57
linh
pham



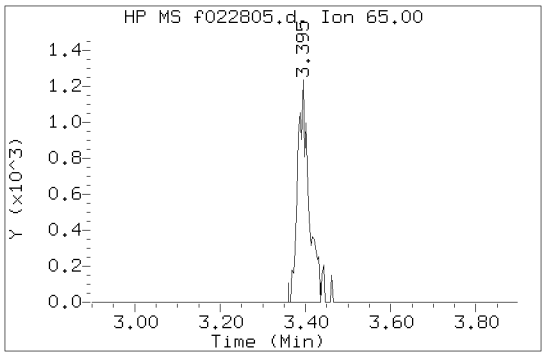
AFTER
MASS
63
AREA
8248
HEIGHT
3340
11-Mar-2024
18:39
linh
pham



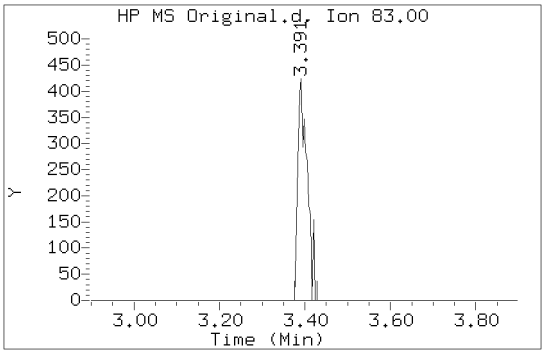
BEFORE
MASS
65
AREA
2265
HEIGHT
1235
11-Mar-2024
13:57
linh
pham



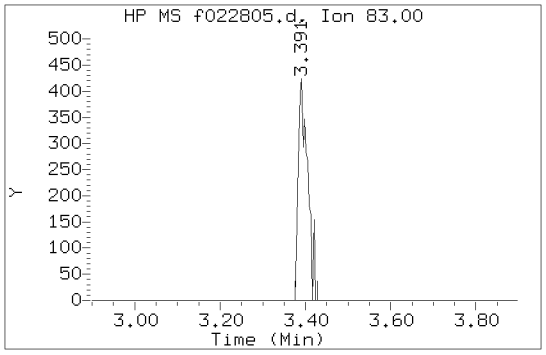
AFTER
MASS
65
AREA
2265
HEIGHT
1235
11-Mar-2024
18:39
linh
pham



BEFORE
MASS
83
AREA
657
HEIGHT
424
11-Mar-2024
13:57
linh
pham



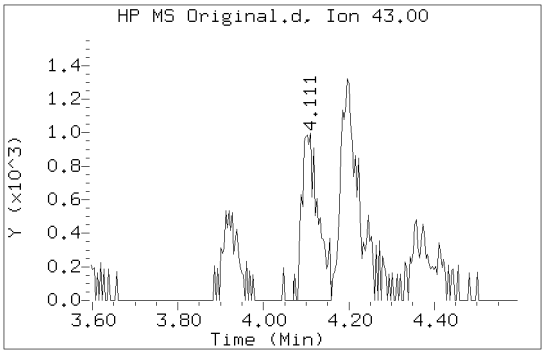
AFTER
MASS
83
AREA
657
HEIGHT
424
11-Mar-2024
18:39
linh
pham



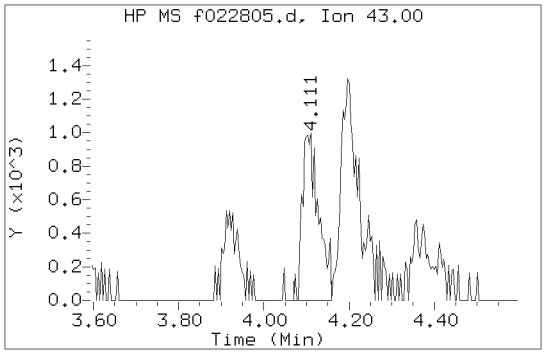
2-Butanone (78-93-3)

Reason Code:

BEFORE
MASS
43
AREA
2705
HEIGHT
998
11-Mar-2024
13:57
linh
pham



AFTER
MASS
43
AREA
2705
HEIGHT
998
11-Mar-2024
18:39
linh
pham



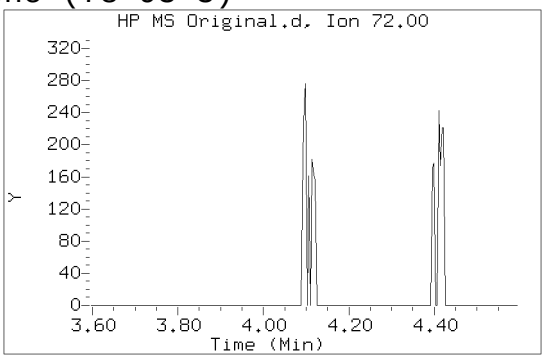
Data File : \\nahstws005\target\chem\voa10.i\g240228.b\f022805.d
Inj Date : 28-FEB-2024 18:12
InstruID : voa10.i
LabSampID : VSTD002

2-Butanone (78-93-3)

Reason Code:

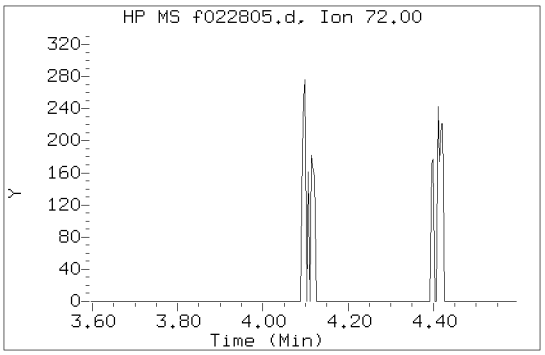
BEFORE

MASS
72
AREA
0
HEIGHT
0
11-Mar-2024
13:57
linh
pham



AFTER

MASS
72
AREA
0
HEIGHT
0
11-Mar-2024
18:39
linh
pham

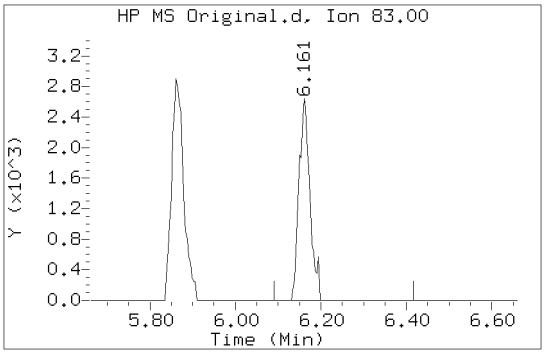


Bromodichloromethane (75-27-4)

Reason Code:

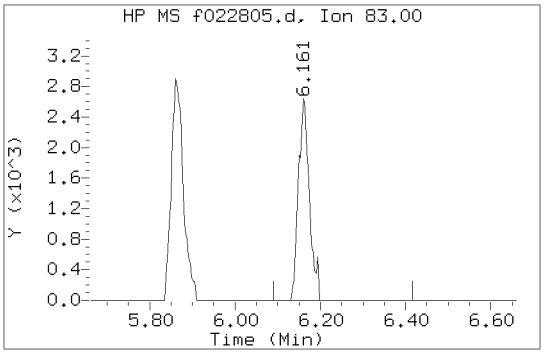
BEFORE

MASS
83
AREA
4820
HEIGHT
2646
11-Mar-2024
13:57
linh
pham



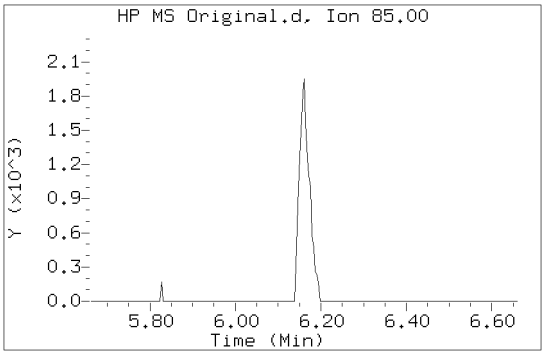
AFTER

MASS
83
AREA
4820
HEIGHT
2646
11-Mar-2024
18:39
linh
pham



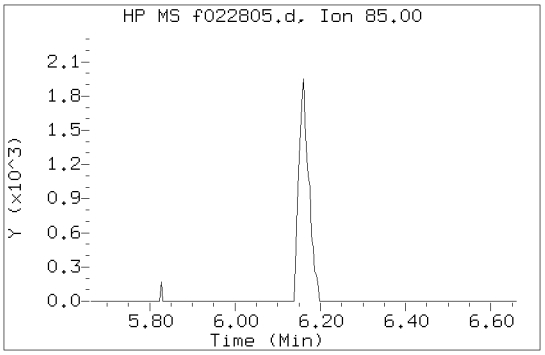
BEFORE

MASS
85
AREA
0
HEIGHT
0
11-Mar-2024
13:57
linh
pham



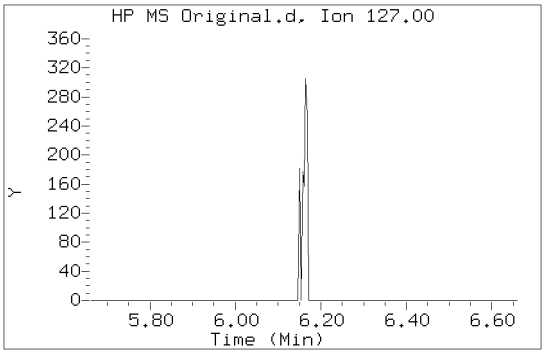
AFTER

MASS
85
AREA
0
HEIGHT
0
11-Mar-2024
18:39
linh
pham



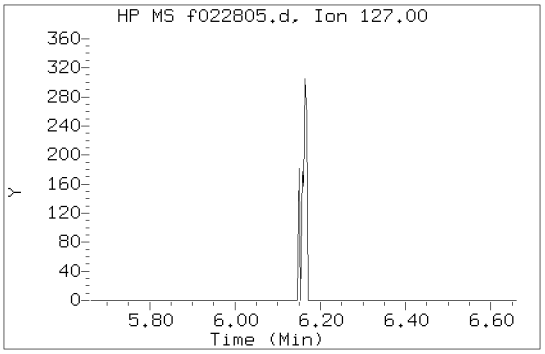
BEFORE

MASS
127
AREA
0
HEIGHT
0
11-Mar-2024
13:57
linh
pham



AFTER

MASS
127
AREA
0
HEIGHT
0
11-Mar-2024
18:39
linh
pham



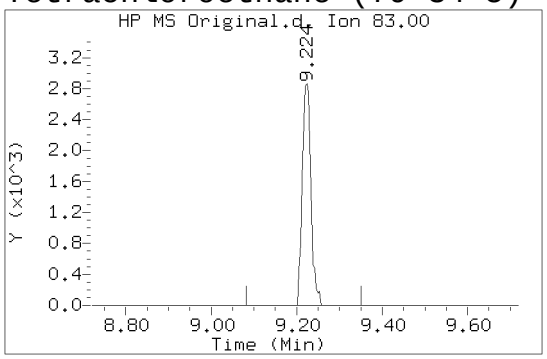
Data File : \\nahstws005\target\chem\voa10.i\g240228.b\f022805.d
Inj Date : 28-FEB-2024 18:12
InstruID : voa10.i
LabSampID : VSTD002

1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

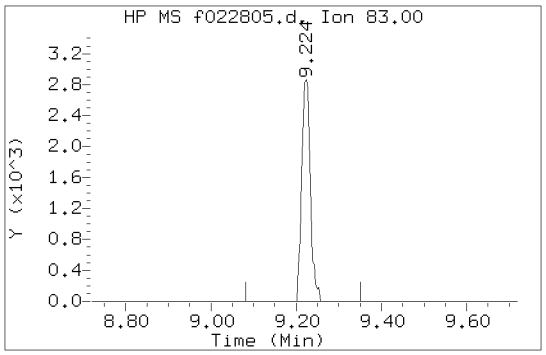
BEFORE

MASS
83
AREA
4175
HEIGHT
2864
11-Mar-2024
13:57
linh
pham



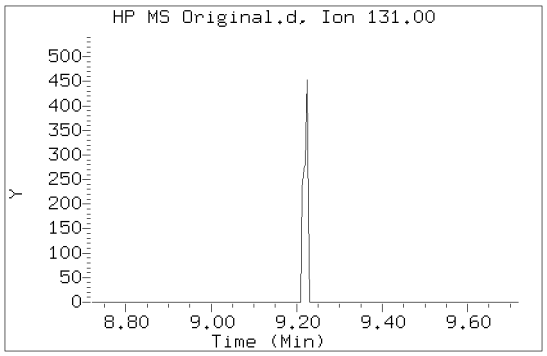
AFTER

MASS
83
AREA
4175
HEIGHT
2864
11-Mar-2024
18:39
linh
pham



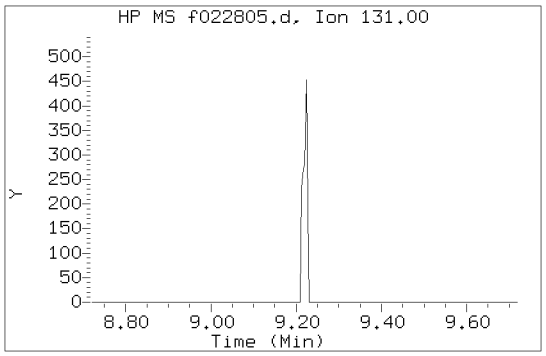
BEFORE

MASS
131
AREA
0
HEIGHT
0
11-Mar-2024
13:57
linh
pham



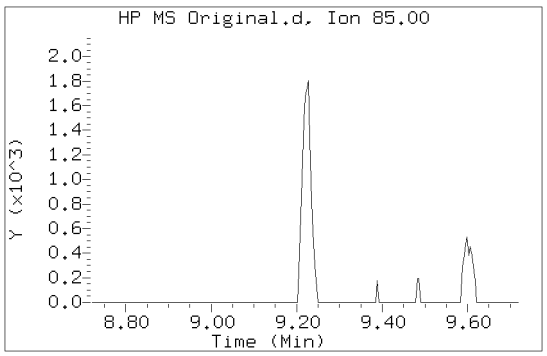
AFTER

MASS
131
AREA
0
HEIGHT
0
11-Mar-2024
18:39
linh
pham



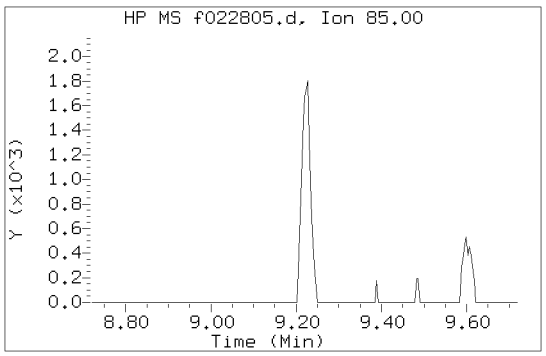
BEFORE

MASS
85
AREA
0
HEIGHT
0
11-Mar-2024
13:57
linh
pham



AFTER

MASS
85
AREA
0
HEIGHT
0
11-Mar-2024
18:39
linh
pham

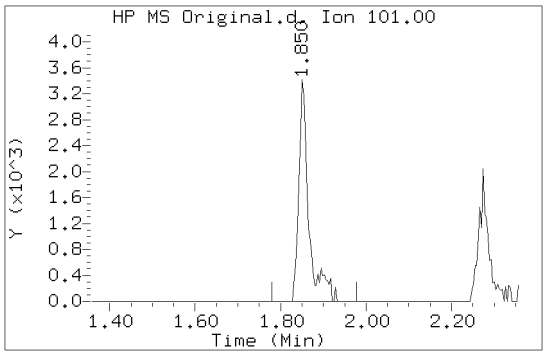


Trichlorofluoromethane (75-69-4)

Reason Code:

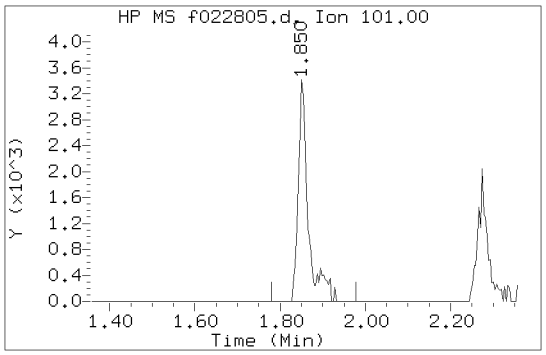
BEFORE

MASS
101
AREA
5637
HEIGHT
3416
11-Mar-2024
13:57
linh
pham



AFTER

MASS
101
AREA
5637
HEIGHT
3416
11-Mar-2024
18:39
linh
pham



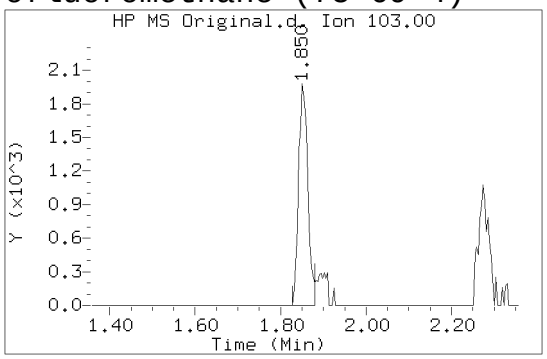
Data File : \\nahstws005\target\chem\voa10.i\g240228.b\f022805.d
Inj Date : 28-FEB-2024 18:12
InstruID : voa10.i
LabSampID : VSTD002

Trichlorofluoromethane (75-69-4)

Reason Code:

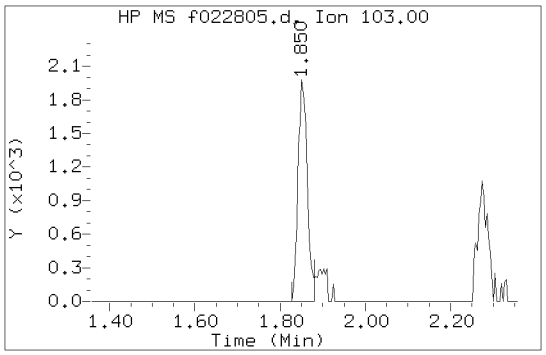
BEFORE

MASS
103
AREA
3057
HEIGHT
1980
11-Mar-2024
13:57
linh
pham



AFTER

MASS
103
AREA
3057
HEIGHT
1980
11-Mar-2024
18:39
linh
pham

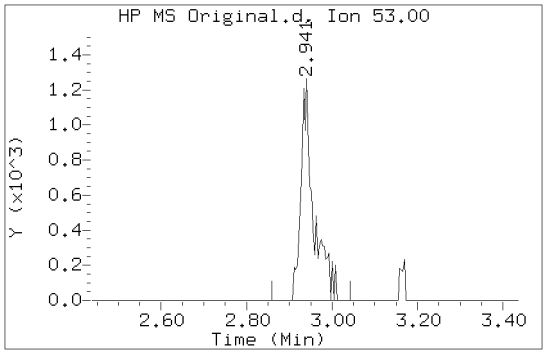


Acrylonitrile (107-13-1)

Reason Code:

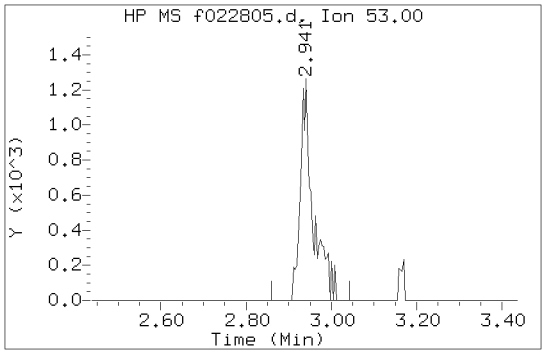
BEFORE

MASS
53
AREA
2642
HEIGHT
1264
11-Mar-2024
13:57
linh
pham



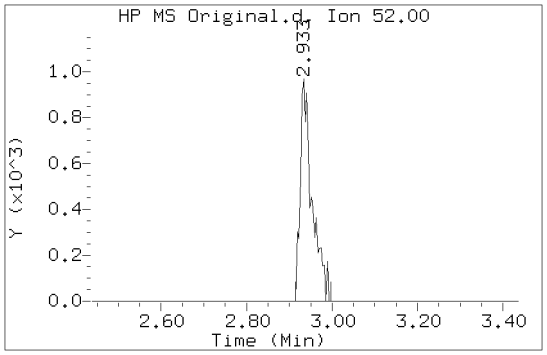
AFTER

MASS
53
AREA
2642
HEIGHT
1264
11-Mar-2024
18:39
linh
pham



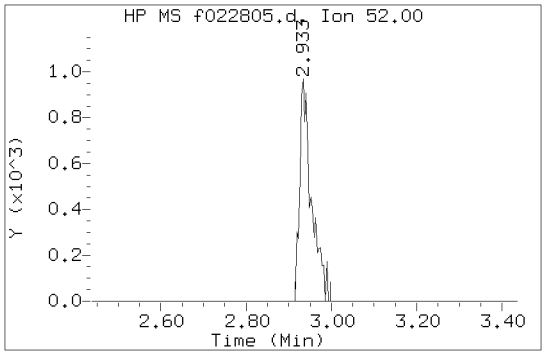
BEFORE

MASS
52
AREA
1887
HEIGHT
969
11-Mar-2024
13:57
linh
pham



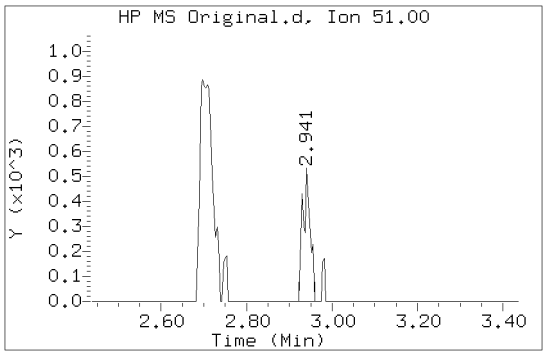
AFTER

MASS
52
AREA
1887
HEIGHT
969
11-Mar-2024
18:39
linh
pham



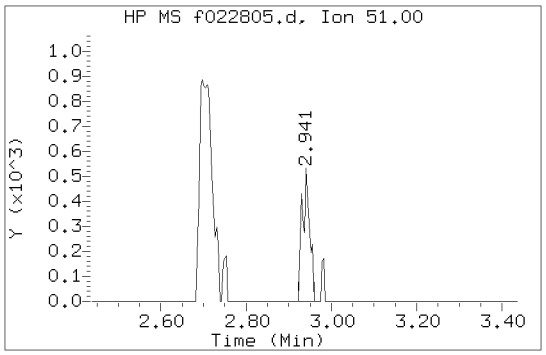
BEFORE

MASS
51
AREA
655
HEIGHT
533
11-Mar-2024
13:57
linh
pham



AFTER

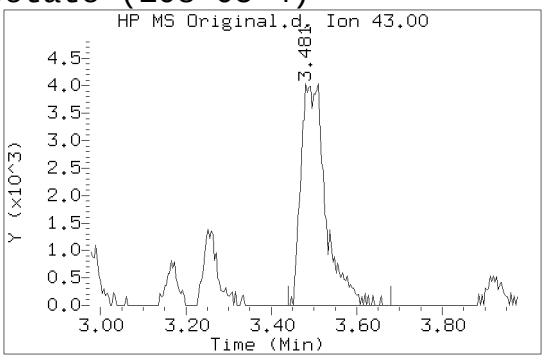
MASS
51
AREA
655
HEIGHT
533
11-Mar-2024
18:39
linh
pham



Data File : \\nahstws005\target\chem\voa10.i\g240228.b\f022805.d
Inj Date : 28-FEB-2024 18:12
InstruID : voa10.i
LabSampID : VSTD002

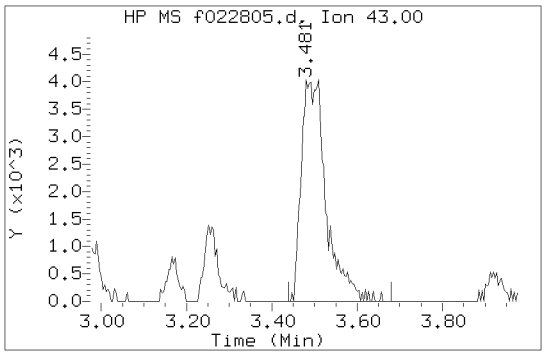
Vinyl Acetate (108-05-4)

BEFORE
MASS
43
AREA
16461
HEIGHT
4037
11-Mar-2024
13:57
linh
pham

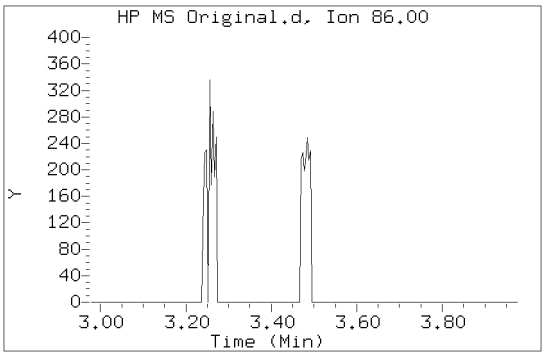


Reason Code:

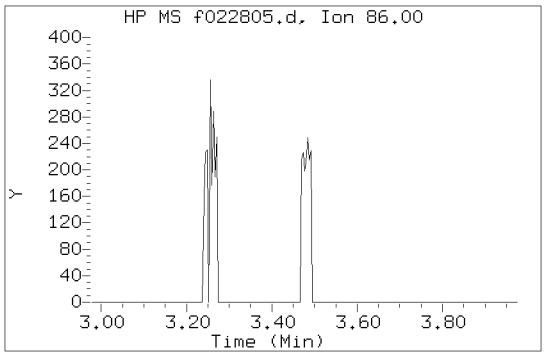
AFTER
MASS
43
AREA
16461
HEIGHT
4037
11-Mar-2024
18:39
linh
pham



BEFORE
MASS
86
AREA
0
HEIGHT
0
11-Mar-2024
13:57
linh
pham

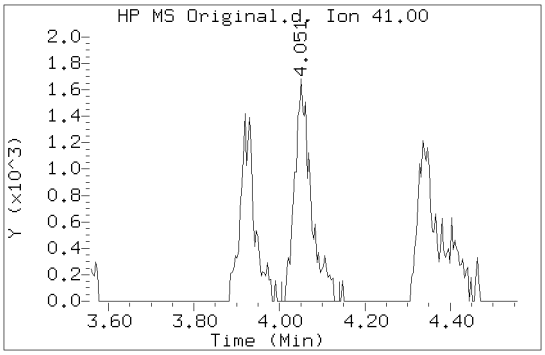


AFTER
MASS
86
AREA
0
HEIGHT
0
11-Mar-2024
18:39
linh
pham



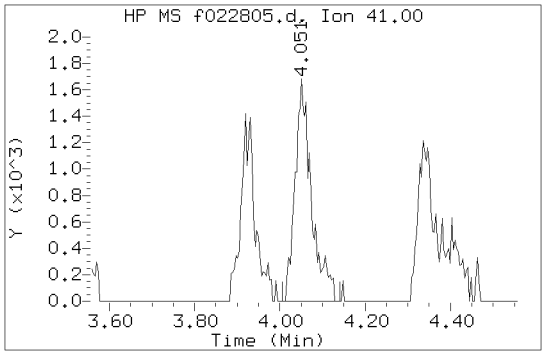
Methacrylonitrile (126-98-7)

BEFORE
MASS
41
AREA
4533
HEIGHT
1682
11-Mar-2024
13:57
linh
pham

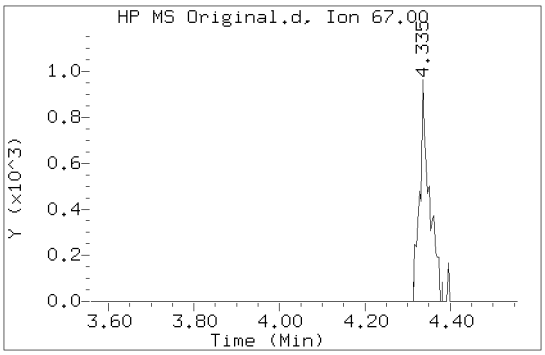


Reason Code:

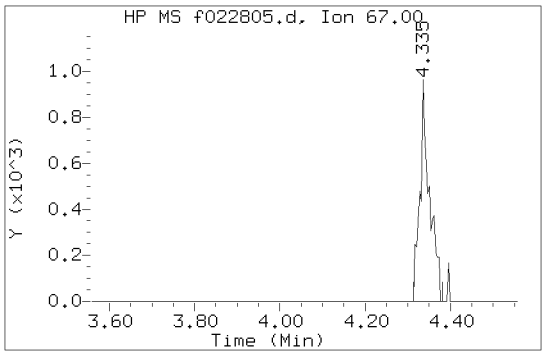
AFTER
MASS
41
AREA
4533
HEIGHT
1682
11-Mar-2024
18:39
linh
pham



BEFORE
MASS
67
AREA
1497
HEIGHT
964
11-Mar-2024
13:57
linh
pham



AFTER
MASS
67
AREA
1497
HEIGHT
964
11-Mar-2024
18:39
linh
pham



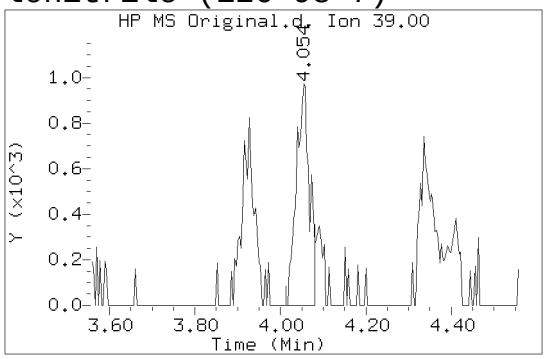
Data File : \\nahstws005\target\chem\voa10.i\g240228.b\f022805.d
Inj Date : 28-FEB-2024 18:12
InstruID : voa10.i
LabSampID : VSTD002

Methacrylonitrile (126-98-7)

Reason Code:

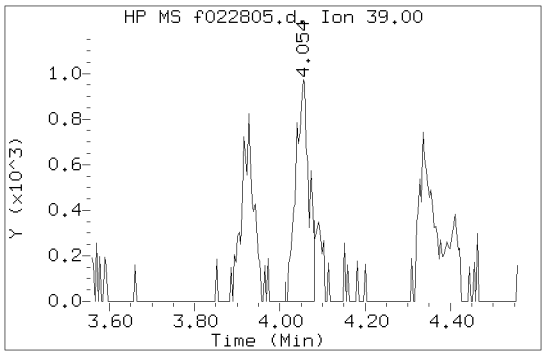
BEFORE

MASS
39
AREA
2116
HEIGHT
973
11-Mar-2024
13:57
linh
pham



AFTER

MASS
39
AREA
2116
HEIGHT
973
11-Mar-2024
18:39
linh
pham

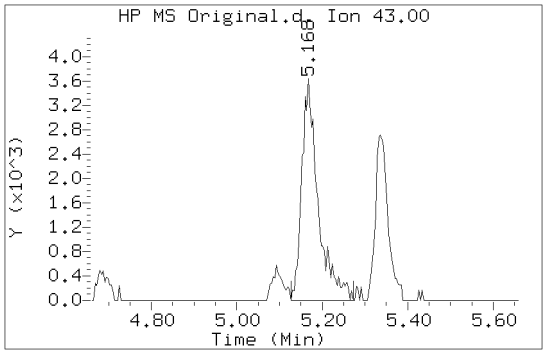


Isobutyl Alcohol (78-83-1)

Reason Code:

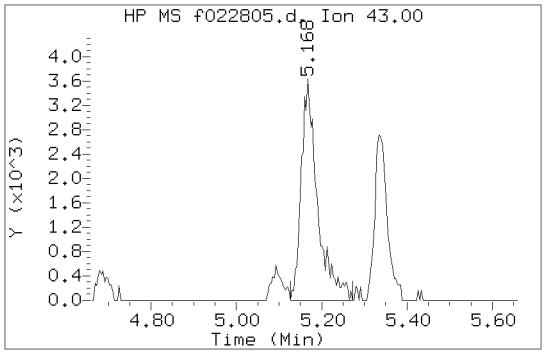
BEFORE

MASS
43
AREA
9798
HEIGHT
3639
11-Mar-2024
13:57
linh
pham



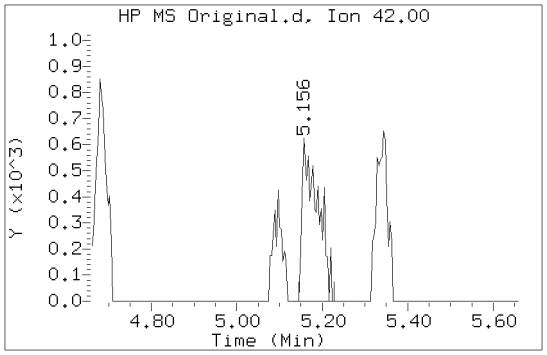
AFTER

MASS
43
AREA
9798
HEIGHT
3639
11-Mar-2024
18:39
linh
pham



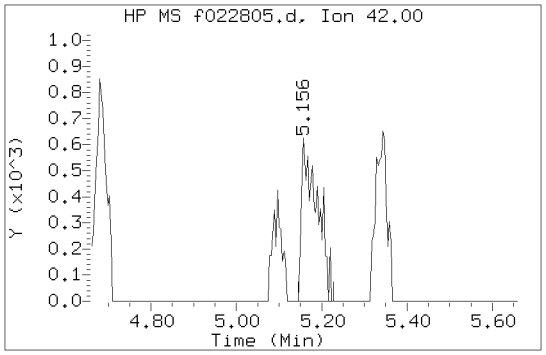
BEFORE

MASS
42
AREA
1611
HEIGHT
626
11-Mar-2024
13:57
linh
pham



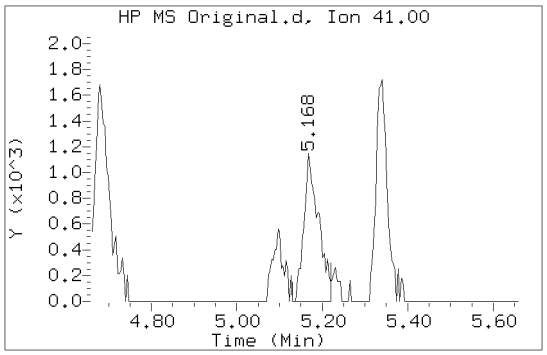
AFTER

MASS
42
AREA
1611
HEIGHT
626
11-Mar-2024
18:39
linh
pham



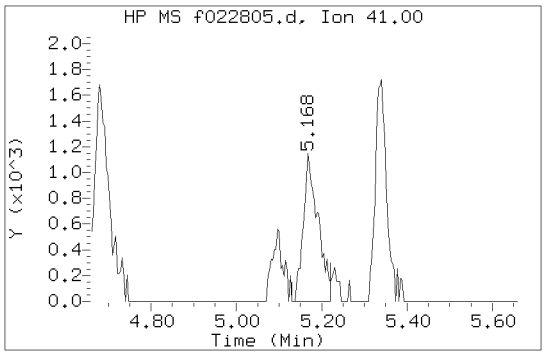
BEFORE

MASS
41
AREA
2760
HEIGHT
1148
11-Mar-2024
13:57
linh
pham



AFTER

MASS
41
AREA
2760
HEIGHT
1148
11-Mar-2024
18:39
linh
pham



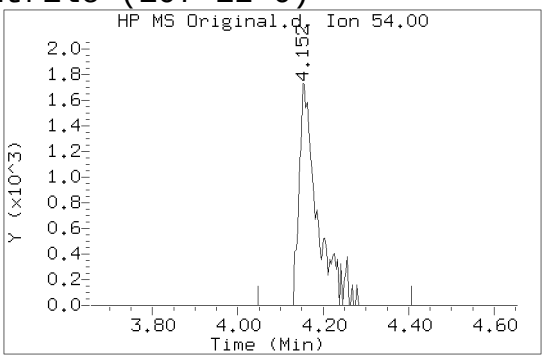
Data File : \\nahstws005\target\chem\voa10.i\g240228.b\f022805.d
Inj Date : 28-FEB-2024 18:12
InstruID : voa10.i
LabSampID : VSTD002

Propionitrile (107-12-0)

Reason Code:

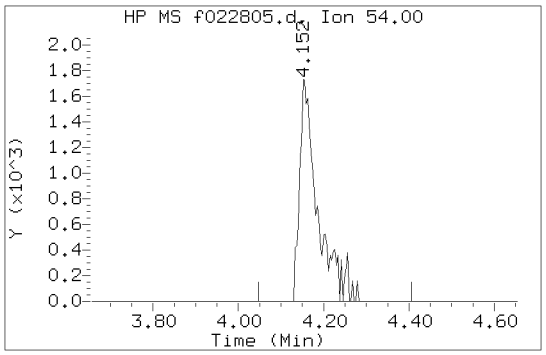
BEFORE

MASS
54
AREA
5173
HEIGHT
1729
11-Mar-2024
13:57
linh
pham



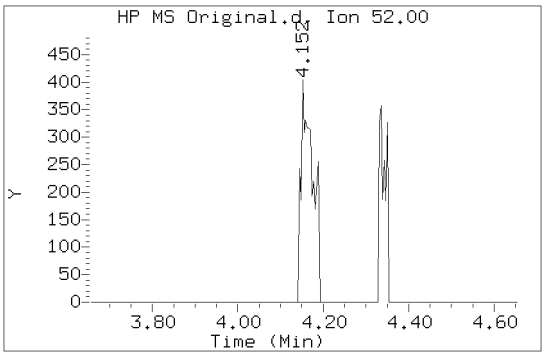
AFTER

MASS
54
AREA
5173
HEIGHT
1729
11-Mar-2024
18:39
linh
pham



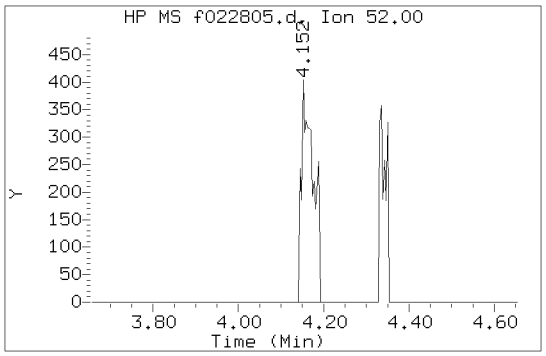
BEFORE

MASS
52
AREA
781
HEIGHT
404
11-Mar-2024
13:57
linh
pham



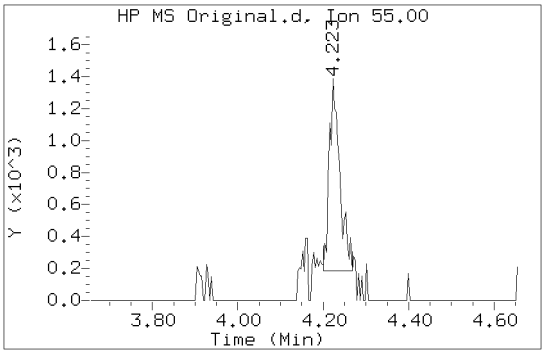
AFTER

MASS
52
AREA
781
HEIGHT
404
11-Mar-2024
18:39
linh
pham



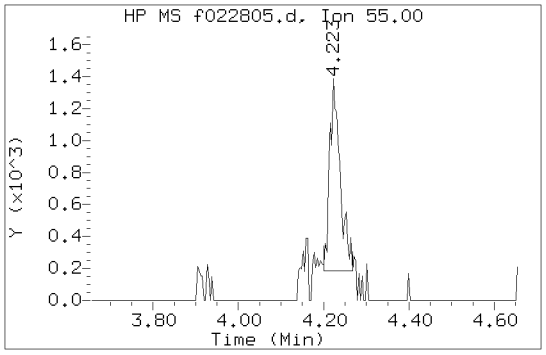
BEFORE

MASS
55
AREA
2043
HEIGHT
1201
11-Mar-2024
13:57
linh
pham



AFTER

MASS
55
AREA
2043
HEIGHT
1201
11-Mar-2024
18:39
linh
pham

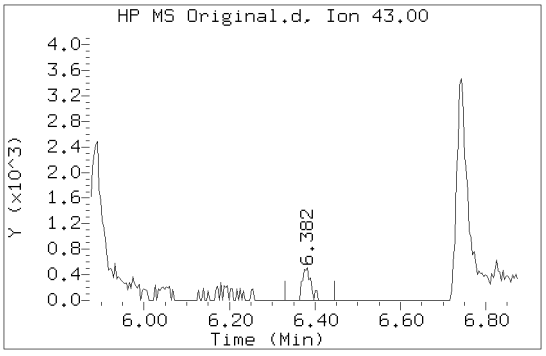


2-Nitropropane (79-46-9)

Reason Code:

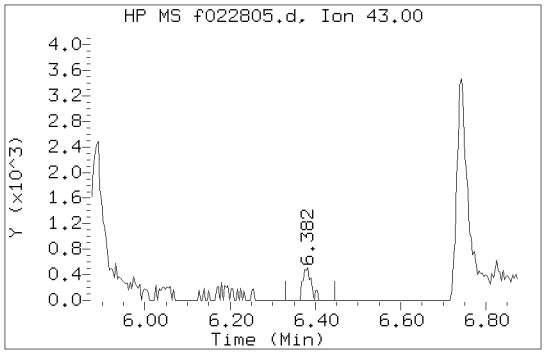
BEFORE

MASS
43
AREA
729
HEIGHT
516
11-Mar-2024
13:57
linh
pham



AFTER

MASS
43
AREA
729
HEIGHT
516
11-Mar-2024
18:39
linh
pham



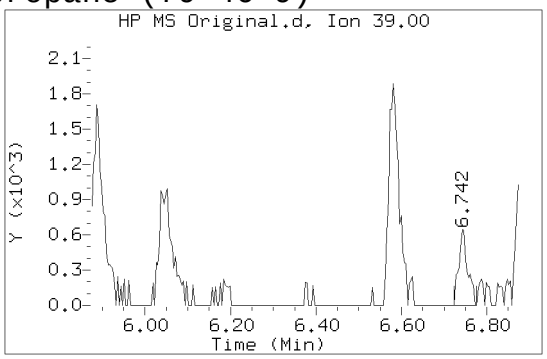
Data File : \\nahstws005\target\chem\voa10.i\g240228.b\f022805.d
Inj Date : 28-FEB-2024 18:12
InstruID : voa10.i
LabSampID : VSTD002

2-Nitropropane (79-46-9)

Reason Code:

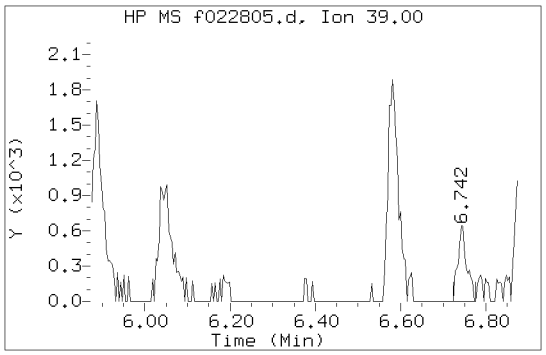
BEFORE

MASS
39
AREA
940
HEIGHT
641
11-Mar-2024
13:57
linh
pham



AFTER

MASS
39
AREA
940
HEIGHT
641
11-Mar-2024
18:39
linh
pham

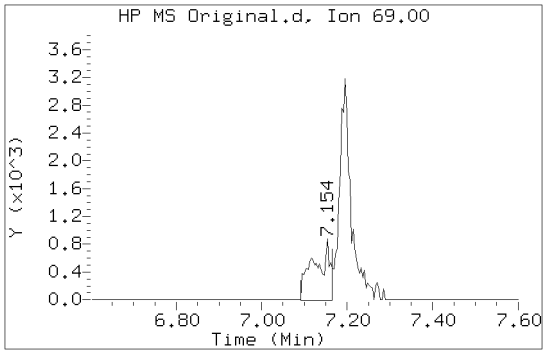


Ethyl Methacrylate (97-63-2)

Reason Code:

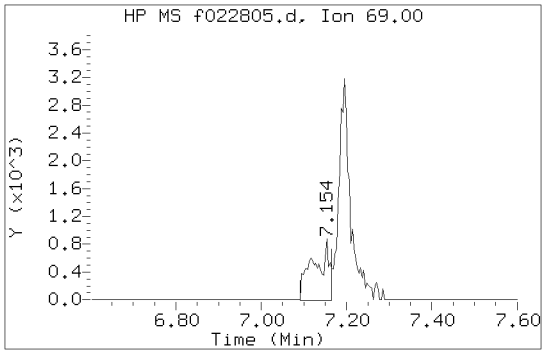
BEFORE

MASS
69
AREA
2256
HEIGHT
889
11-Mar-2024
13:57
linh
pham



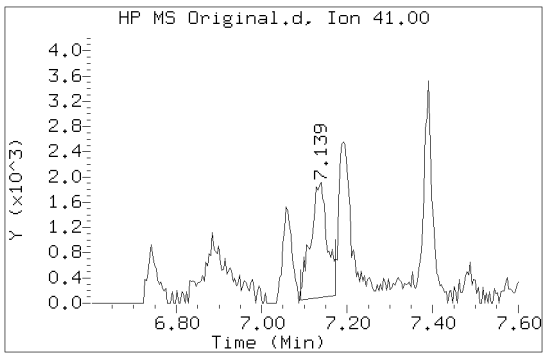
AFTER

MASS
69
AREA
2256
HEIGHT
889
11-Mar-2024
18:39
linh
pham



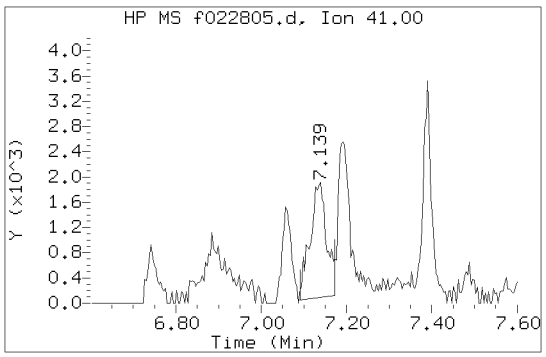
BEFORE

MASS
41
AREA
5006
HEIGHT
1819
11-Mar-2024
13:57
linh
pham



AFTER

MASS
41
AREA
5006
HEIGHT
1819
11-Mar-2024
18:39
linh
pham

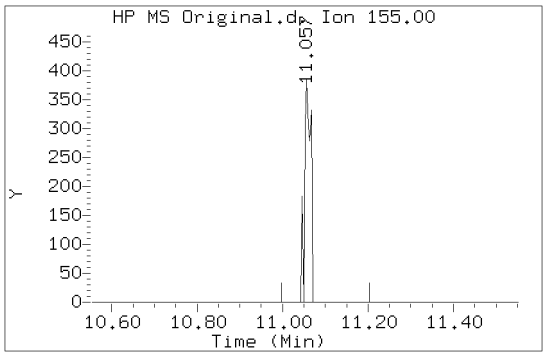


1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

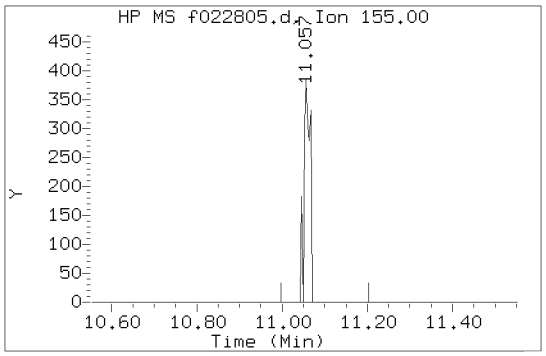
BEFORE

MASS
155
AREA
401
HEIGHT
384
11-Mar-2024
13:57
linh
pham



AFTER

MASS
155
AREA
401
HEIGHT
384
11-Mar-2024
18:39
linh
pham



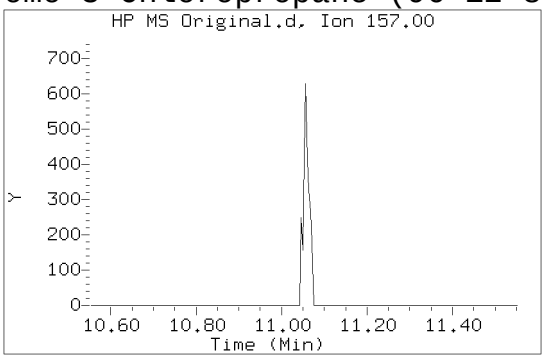
Data File : \\nahstws005\target\chem\voa10.i\g240228.b\f022805.d
Inj Date : 28-FEB-2024 18:12
InstruID : voa10.i
LabSampID : VSTD002

1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

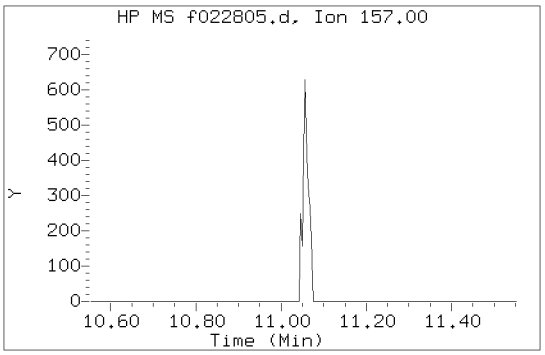
BEFORE

MASS
157
AREA
0
HEIGHT
0
11-Mar-2024
13:57
linh
pham



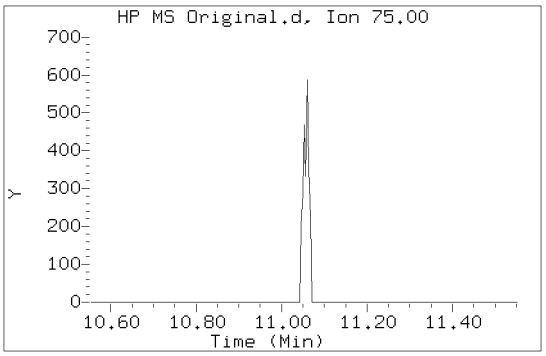
AFTER

MASS
157
AREA
0
HEIGHT
0
11-Mar-2024
18:39
linh
pham



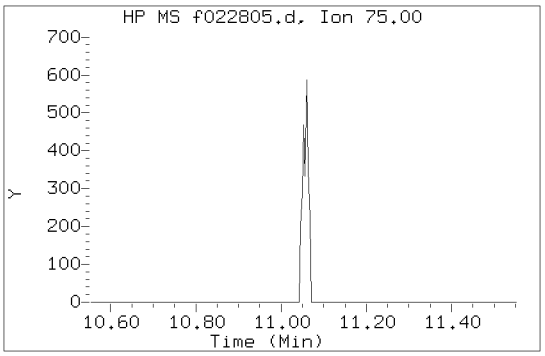
BEFORE

MASS
75
AREA
0
HEIGHT
0
11-Mar-2024
13:57
linh
pham



AFTER

MASS
75
AREA
0
HEIGHT
0
11-Mar-2024
18:39
linh
pham

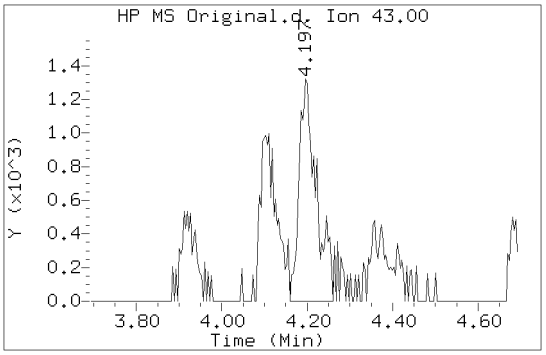


Ethyl Acetate (141-78-6)

Reason Code:

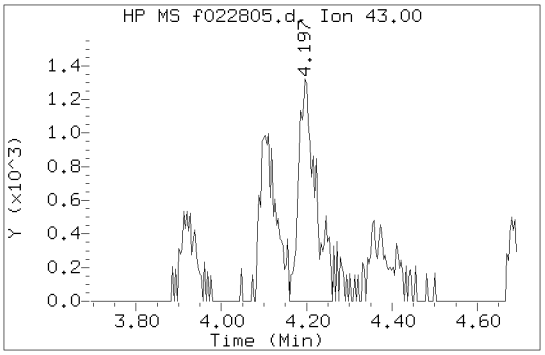
BEFORE

MASS
43
AREA
3727
HEIGHT
1322
11-Mar-2024
13:57
linh
pham



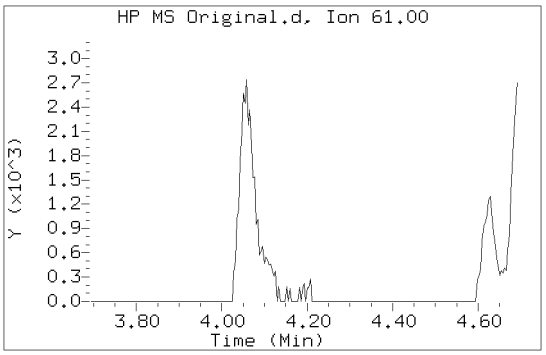
AFTER

MASS
43
AREA
3727
HEIGHT
1322
11-Mar-2024
18:39
linh
pham



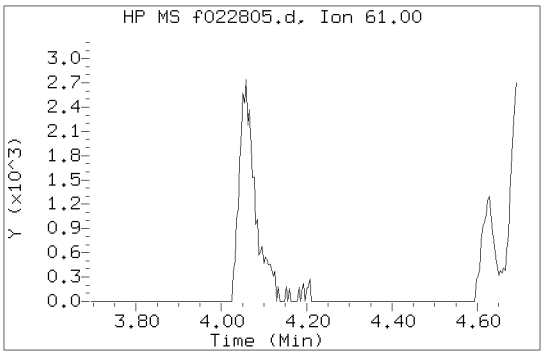
BEFORE

MASS
61
AREA
0
HEIGHT
0
11-Mar-2024
13:57
linh
pham



AFTER

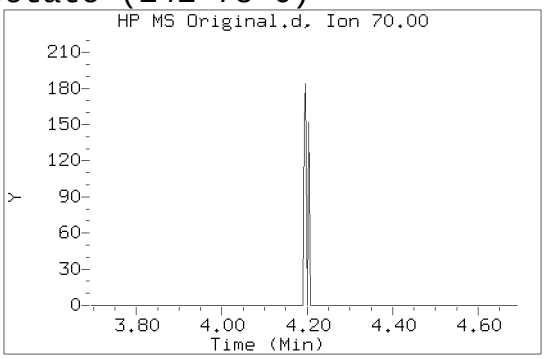
MASS
61
AREA
0
HEIGHT
0
11-Mar-2024
18:39
linh
pham



Data File : \\nahstws005\target\chem\voa10.i\g240228.b\f022805.d
Inj Date : 28-FEB-2024 18:12
InstruID : voa10.i
LabSampID : VSTD002

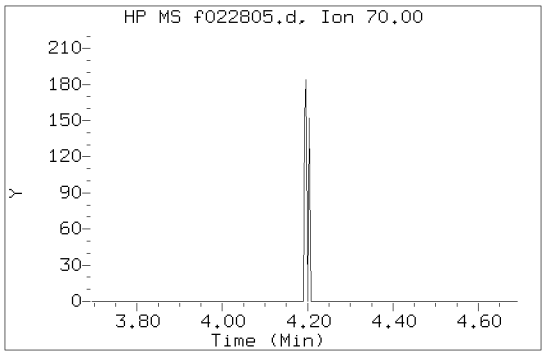
Ethyl Acetate (141-78-6)

BEFORE
MASS
70
AREA
0
HEIGHT
0
11-Mar-2024
13:57
linh
pham



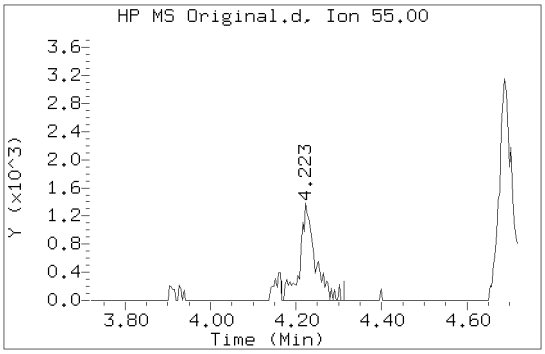
Reason Code:

AFTER
MASS
70
AREA
0
HEIGHT
0
11-Mar-2024
18:39
linh
pham



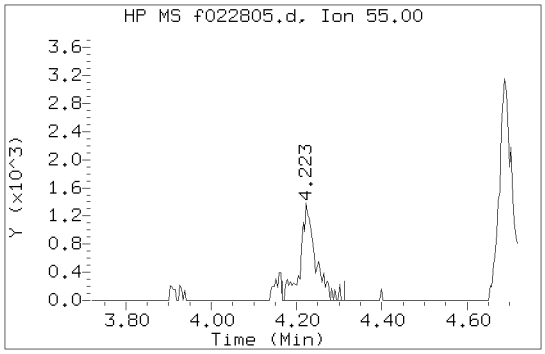
Methyl Acrylate (96-33-3)

BEFORE
MASS
55
AREA
3455
HEIGHT
1387
11-Mar-2024
13:57
linh
pham

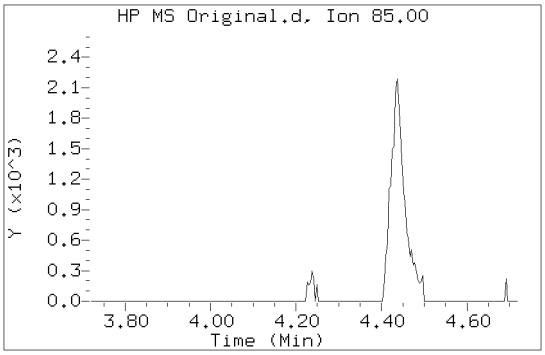


Reason Code:

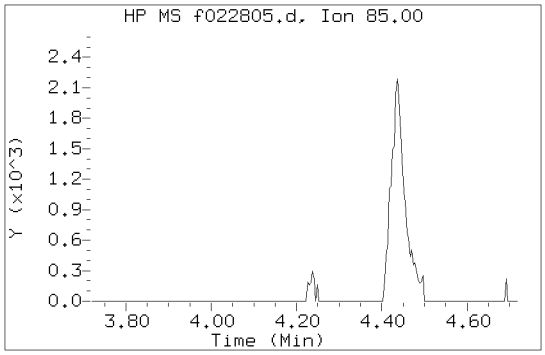
AFTER
MASS
55
AREA
3455
HEIGHT
1387
11-Mar-2024
18:39
linh
pham



BEFORE
MASS
85
AREA
0
HEIGHT
0
11-Mar-2024
13:57
linh
pham

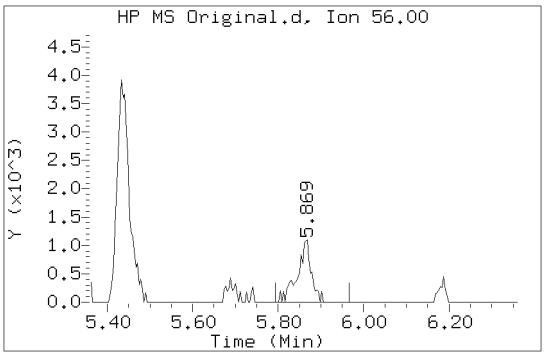


AFTER
MASS
85
AREA
0
HEIGHT
0
11-Mar-2024
18:39
linh
pham



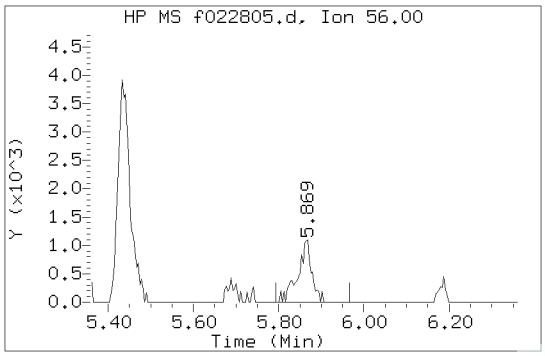
n-Butanol (71-36-3)

BEFORE
MASS
56
AREA
2527
HEIGHT
1097
11-Mar-2024
13:57
linh
pham



Reason Code:

AFTER
MASS
56
AREA
2527
HEIGHT
1097
11-Mar-2024
18:39
linh
pham



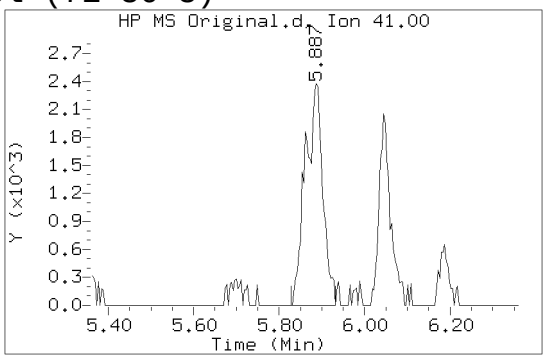
Data File : \\nahstws005\target\chem\voa10.i\g240228.b\f022805.d
Inj Date : 28-FEB-2024 18:12
InstruID : voa10.i
LabSampID : VSTD002

n-Butanol (71-36-3)

Reason Code:

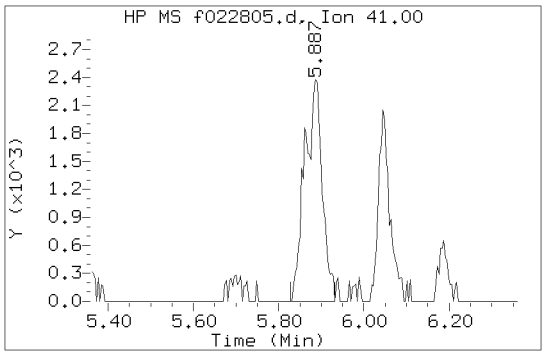
BEFORE

MASS
41
AREA
6870
HEIGHT
2376
11-Mar-2024
13:57
linh
pham



AFTER

MASS
41
AREA
6870
HEIGHT
2376
11-Mar-2024
18:39
linh
pham

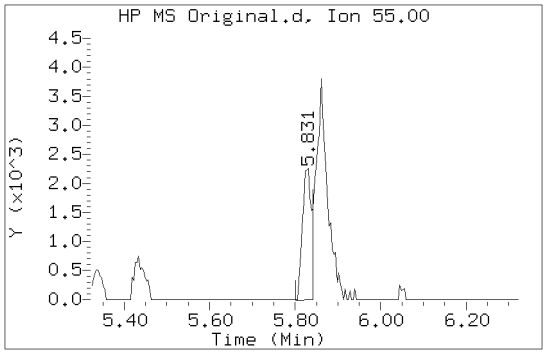


Ethyl Acrylate (140-88-5)

Reason Code:

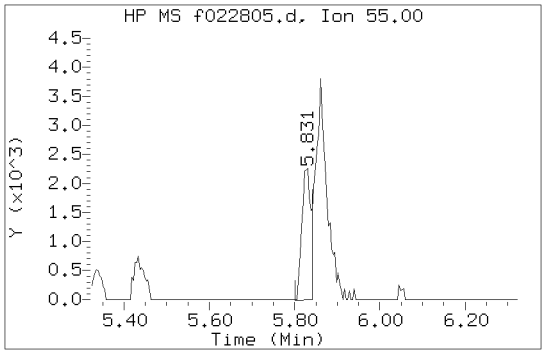
BEFORE

MASS
55
AREA
3530
HEIGHT
2259
11-Mar-2024
13:57
linh
pham



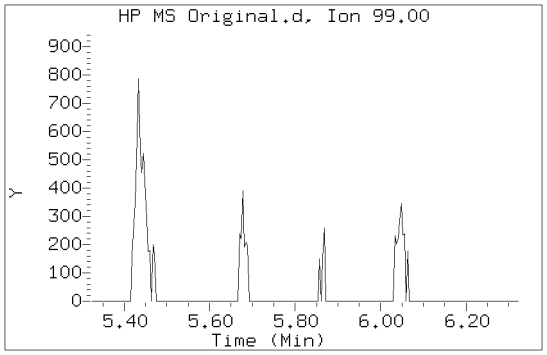
AFTER

MASS
55
AREA
3530
HEIGHT
2259
11-Mar-2024
18:39
linh
pham



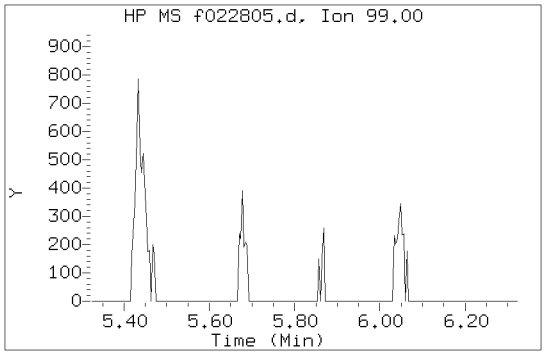
BEFORE

MASS
99
AREA
0
HEIGHT
0
11-Mar-2024
13:57
linh
pham



AFTER

MASS
99
AREA
0
HEIGHT
0
11-Mar-2024
18:39
linh
pham

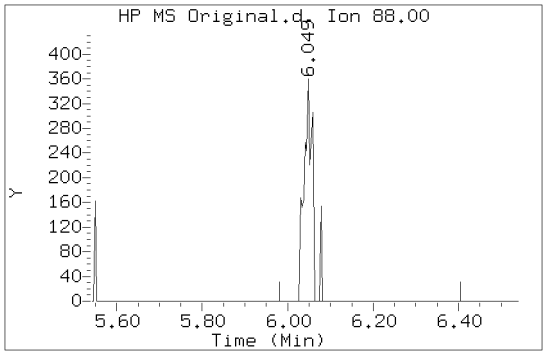


1,4-Dioxane ()

Reason Code:

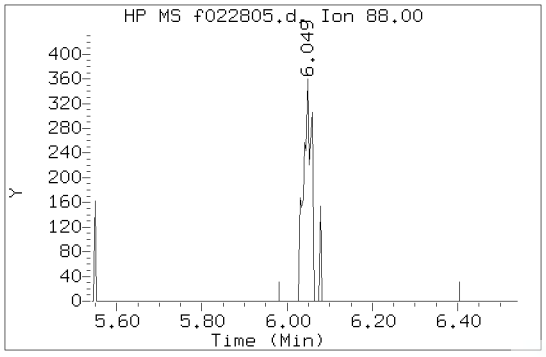
BEFORE

MASS
88
AREA
517
HEIGHT
360
11-Mar-2024
13:57
linh
pham



AFTER

MASS
88
AREA
517
HEIGHT
360
11-Mar-2024
18:39
linh
pham



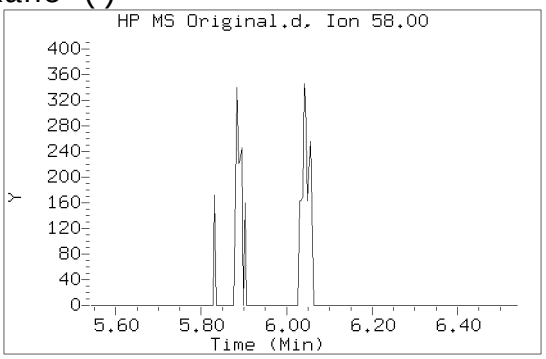
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Inj Date : 28-FEB-2024 18:12
InstruID : voa10.i
LabSampID : VSTD002

1,4-Dioxane ()

Reason Code:

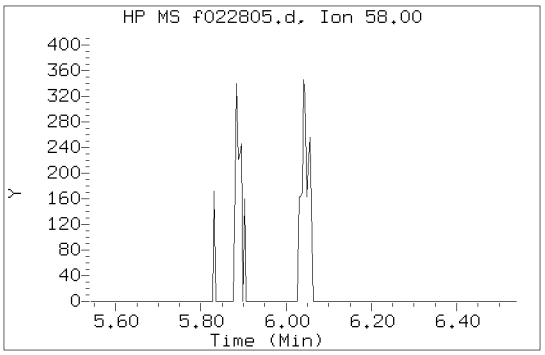
BEFORE

MASS
58
AREA
0
HEIGHT
0
11-Mar-2024
13:57
linh
pham



AFTER

MASS
58
AREA
0
HEIGHT
0
11-Mar-2024
18:39
linh
pham

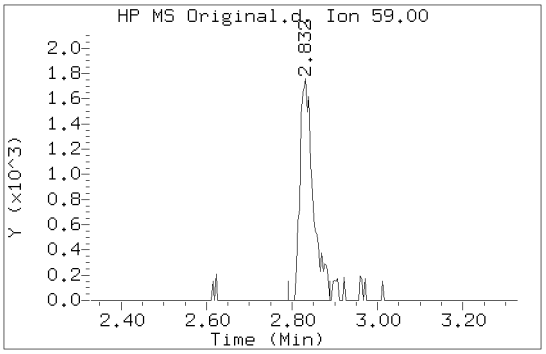


Diethyl ether (60-29-7)

Reason Code:

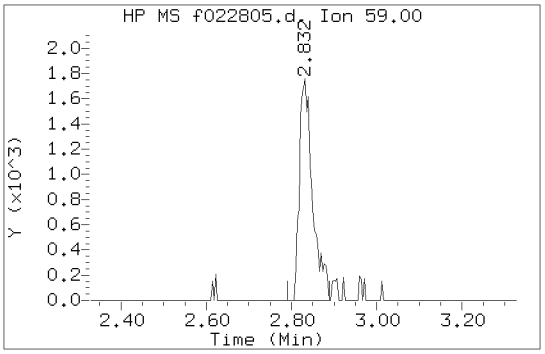
BEFORE

MASS
59
AREA
3835
HEIGHT
1759
11-Mar-2024
13:57
linh
pham



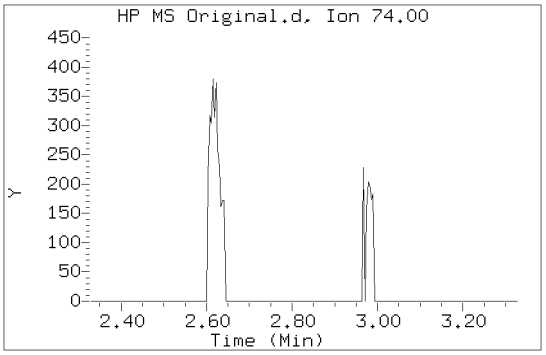
AFTER

MASS
59
AREA
3835
HEIGHT
1759
11-Mar-2024
18:39
linh
pham



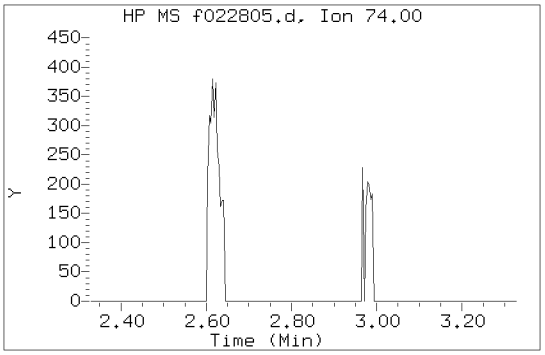
BEFORE

MASS
74
AREA
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HEIGHT
0
11-Mar-2024
13:57
linh
pham



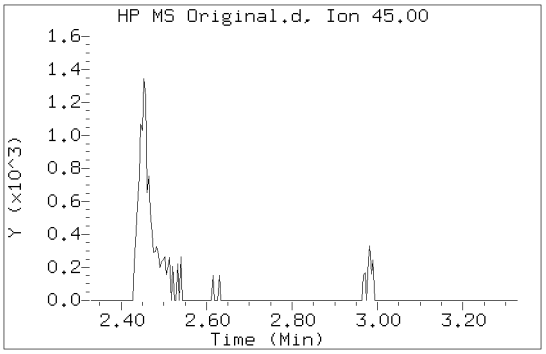
AFTER

MASS
74
AREA
0
HEIGHT
0
11-Mar-2024
18:39
linh
pham



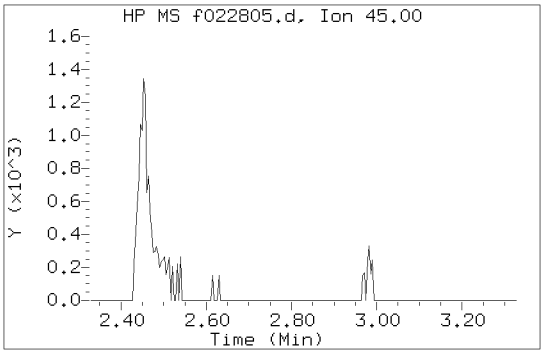
BEFORE

MASS
45
AREA
0
HEIGHT
0
11-Mar-2024
13:57
linh
pham



AFTER

MASS
45
AREA
0
HEIGHT
0
11-Mar-2024
18:39
linh
pham

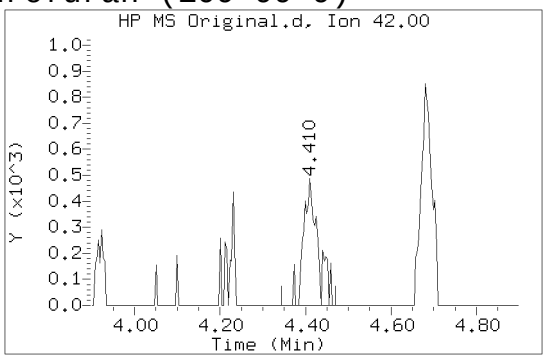


Data File : \\nahstws005\target\chem\voa10.i\g240228.b\f022805.d
Inj Date : 28-FEB-2024 18:12
InstruID : voa10.i
LabSampID : VSTD002

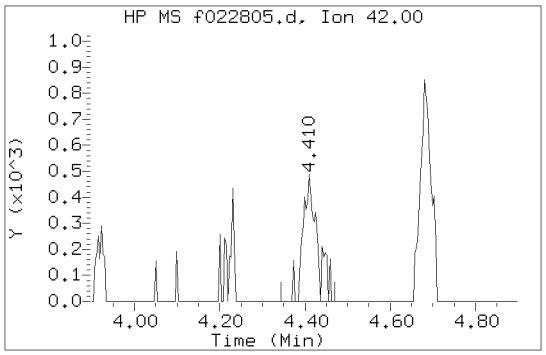
Tetrahydrofuran (109-99-9)

Reason Code:

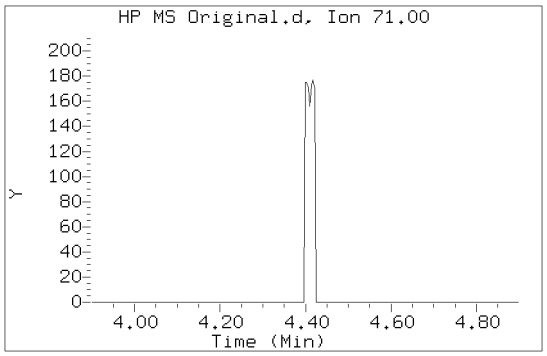
BEFORE
MASS
42
AREA
1159
HEIGHT
488
11-Mar-2024
13:57
linh
pham



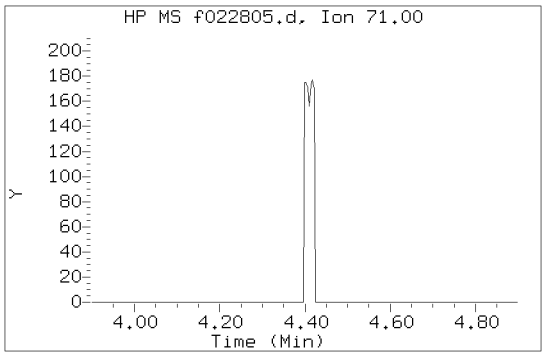
AFTER
MASS
42
AREA
1159
HEIGHT
488
11-Mar-2024
18:39
linh
pham



BEFORE
MASS
71
AREA
0
HEIGHT
0
11-Mar-2024
13:57
linh
pham



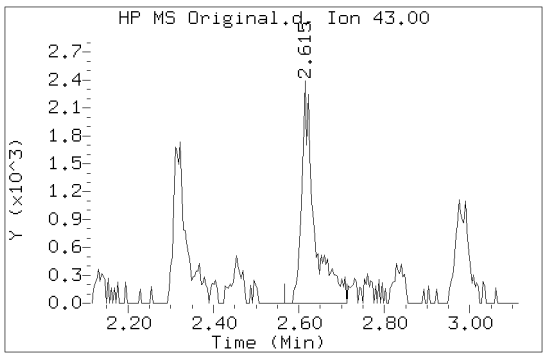
AFTER
MASS
71
AREA
0
HEIGHT
0
11-Mar-2024
18:39
linh
pham



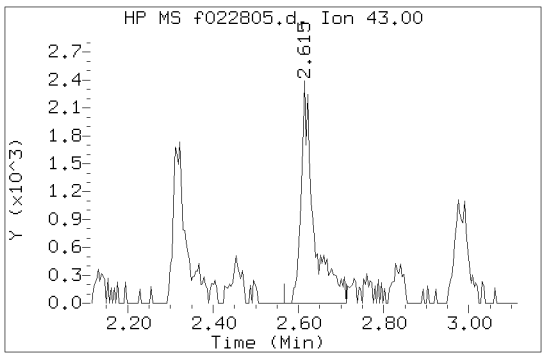
Methyl Acetate (79-20-9)

Reason Code:

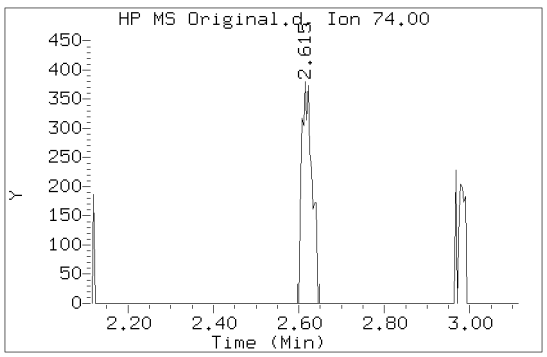
BEFORE
MASS
43
AREA
5089
HEIGHT
2391
11-Mar-2024
13:57
linh
pham



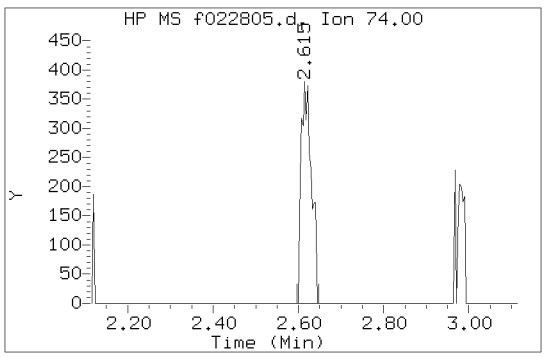
AFTER
MASS
43
AREA
5089
HEIGHT
2391
11-Mar-2024
18:39
linh
pham



BEFORE
MASS
74
AREA
652
HEIGHT
380
11-Mar-2024
13:57
linh
pham



AFTER
MASS
74
AREA
652
HEIGHT
380
11-Mar-2024
18:39
linh
pham



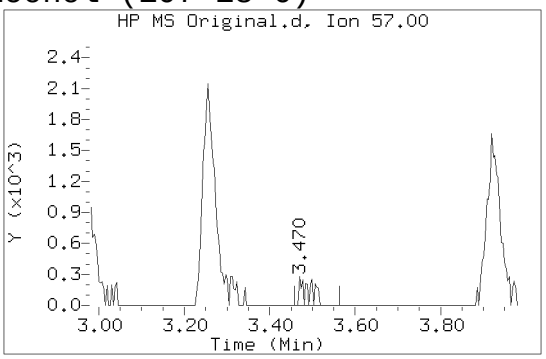
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Inj Date : 28-FEB-2024 18:12
InstruID : voa10.i
LabSampID : VSTD002

Allyl alcohol (107-18-6)

Reason Code:

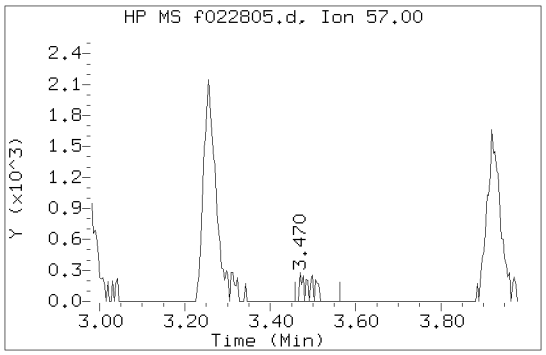
BEFORE

MASS
57
AREA
477
HEIGHT
278
11-Mar-2024
13:57
linh
pham



AFTER

MASS
57
AREA
477
HEIGHT
278
11-Mar-2024
18:39
linh
pham

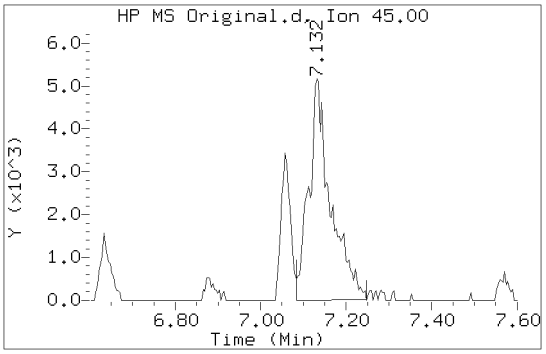


4-Methyl-2-pentanol (108-11-2)

Reason Code:

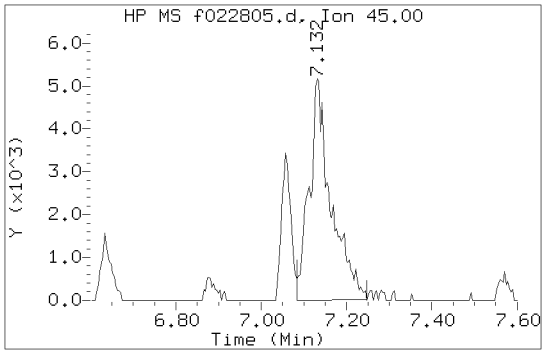
BEFORE

MASS
45
AREA
18402
HEIGHT
5166
11-Mar-2024
13:57
linh
pham



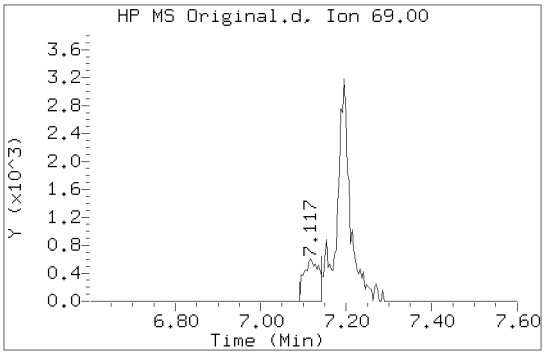
AFTER

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18402
HEIGHT
5166
11-Mar-2024
18:39
linh
pham



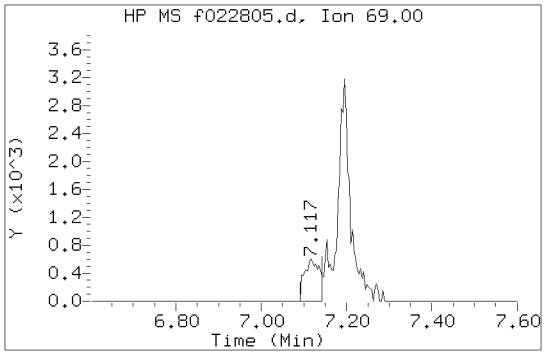
BEFORE

MASS
69
AREA
1481
HEIGHT
604
11-Mar-2024
13:57
linh
pham



AFTER

MASS
69
AREA
1481
HEIGHT
604
11-Mar-2024
18:39
linh
pham

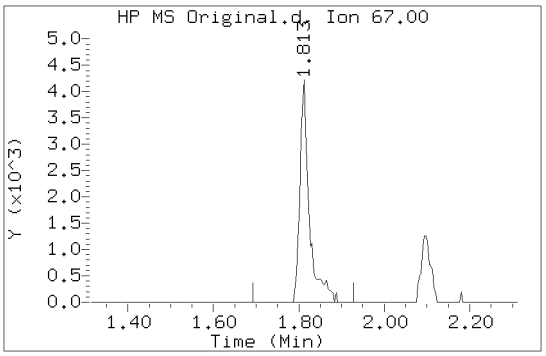


Dichlorofluoromethane (75-43-4)

Reason Code:

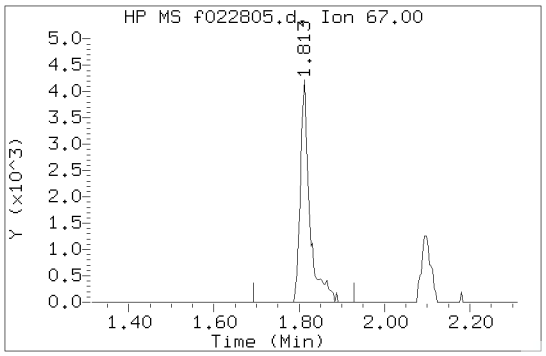
BEFORE

MASS
67
AREA
6652
HEIGHT
4221
11-Mar-2024
13:57
linh
pham



AFTER

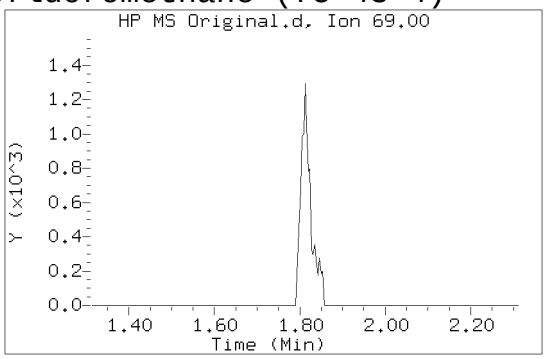
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67
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HEIGHT
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11-Mar-2024
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linh
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InstruID : voa10.i
LabSampID : VSTD002

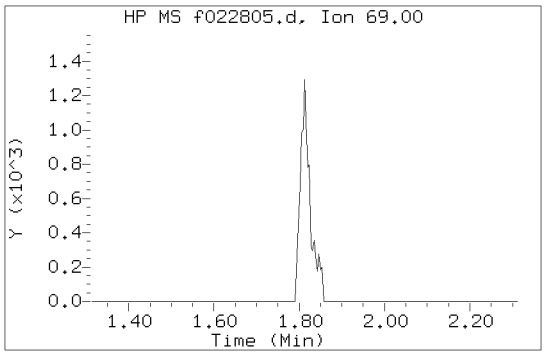
Dichlorofluoromethane (75-43-4)

BEFORE
MASS
69
AREA
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HEIGHT
0
11-Mar-2024
13:57
linh
pham

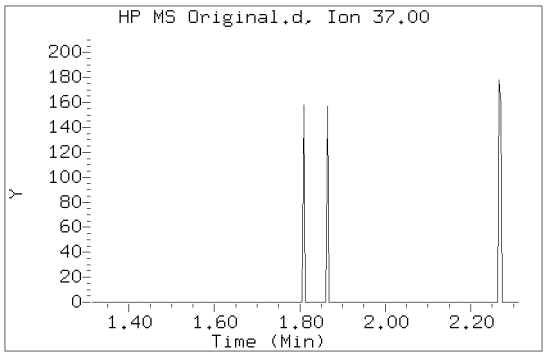


Reason Code:

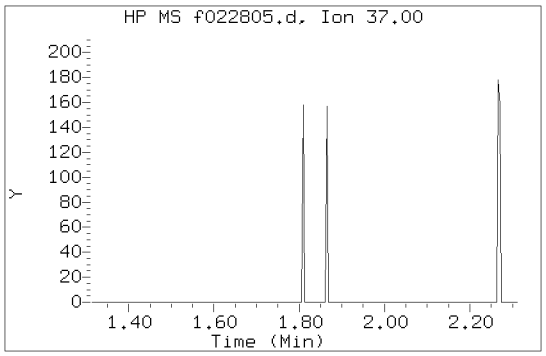
AFTER
MASS
69
AREA
0
HEIGHT
0
11-Mar-2024
18:39
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pham



BEFORE
MASS
37
AREA
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HEIGHT
0
11-Mar-2024
13:57
linh
pham



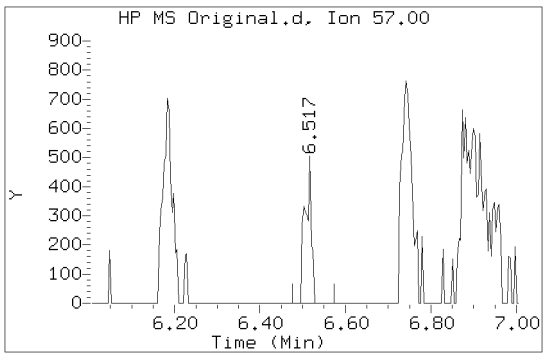
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37
AREA
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HEIGHT
0
11-Mar-2024
18:39
linh
pham



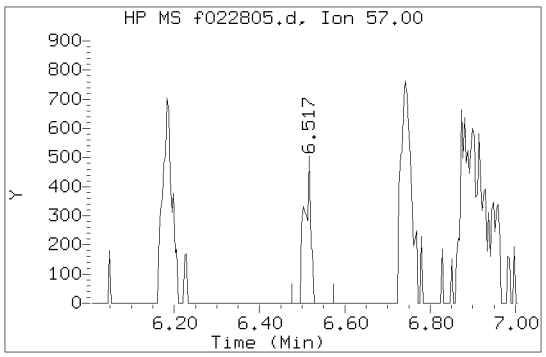
Epichlorohydrin (106-89-8)

Reason Code:

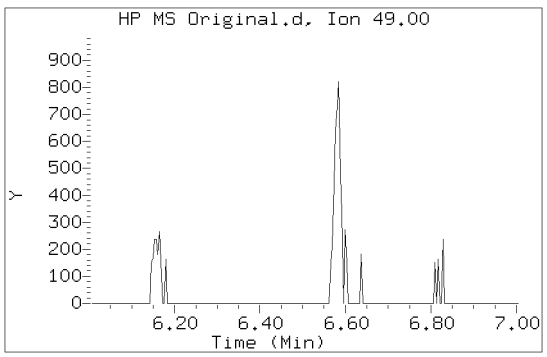
BEFORE
MASS
57
AREA
538
HEIGHT
506
11-Mar-2024
13:57
linh
pham



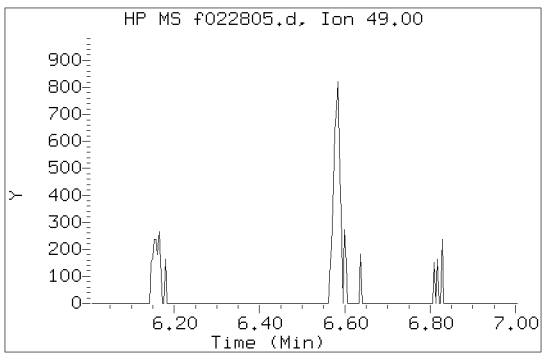
AFTER
MASS
57
AREA
538
HEIGHT
506
11-Mar-2024
18:39
linh
pham



BEFORE
MASS
49
AREA
0
HEIGHT
0
11-Mar-2024
13:57
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pham



AFTER
MASS
49
AREA
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HEIGHT
0
11-Mar-2024
18:39
linh
pham

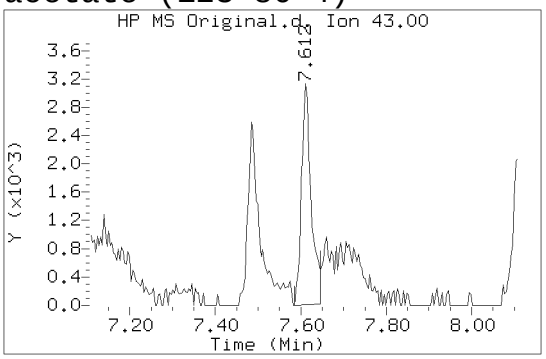


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Inj Date : 28-FEB-2024 18:12
InstruID : voa10.i
LabSampID : VSTD002

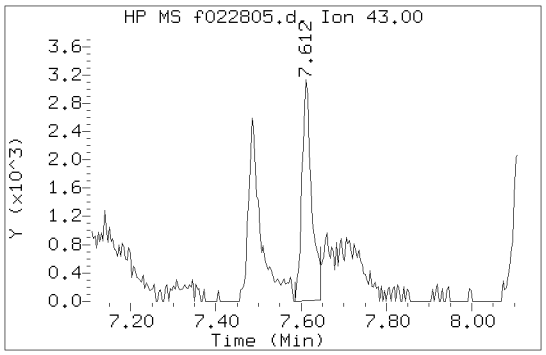
n-Butyl acetate (123-86-4)

Reason Code:

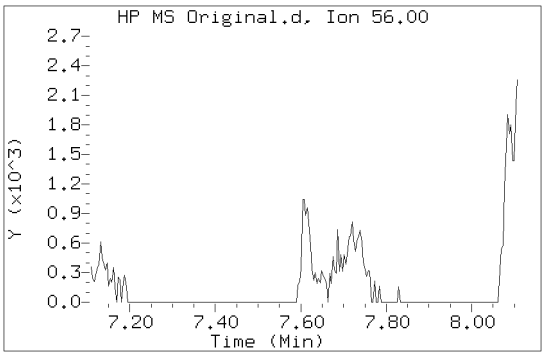
BEFORE
MASS
43
AREA
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HEIGHT
3131
11-Mar-2024
13:57
linh
pham



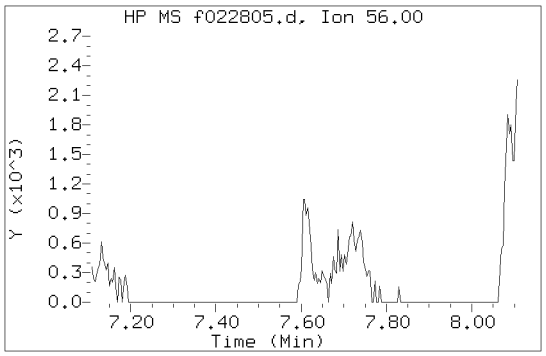
AFTER
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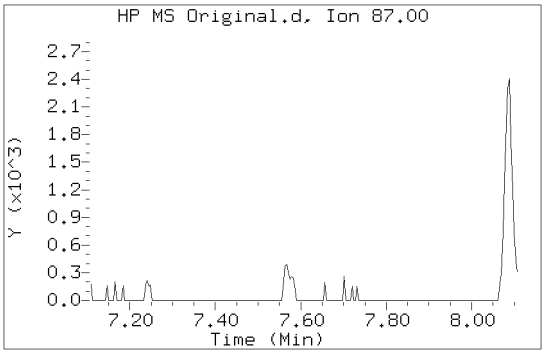
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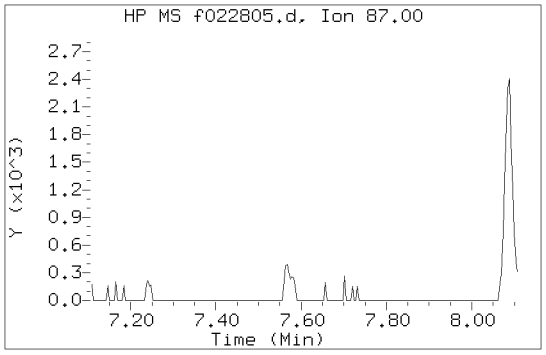
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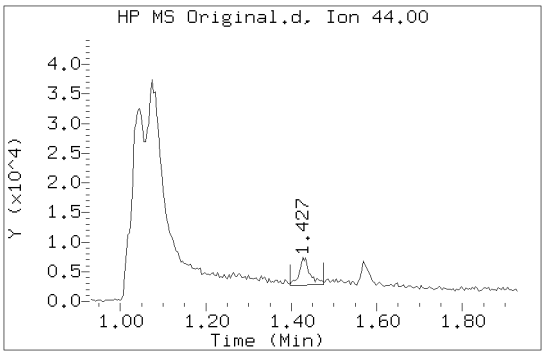
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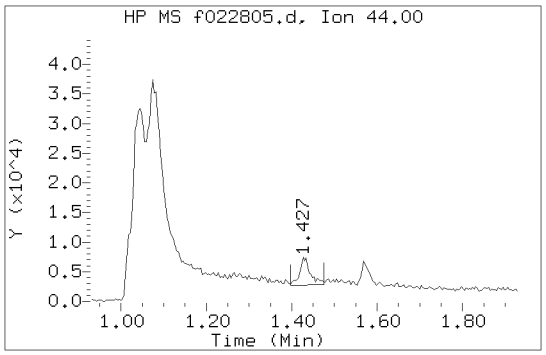
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AFTER
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11-Mar-2024
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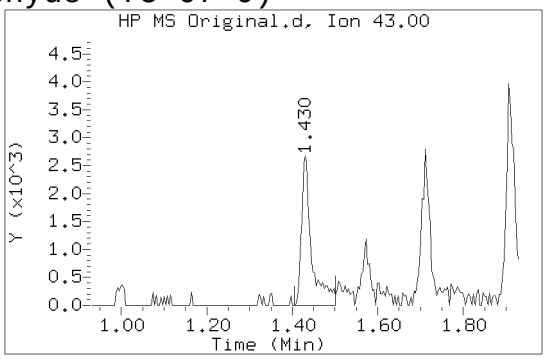
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Acetaldehyde (75-07-0)

Reason Code:

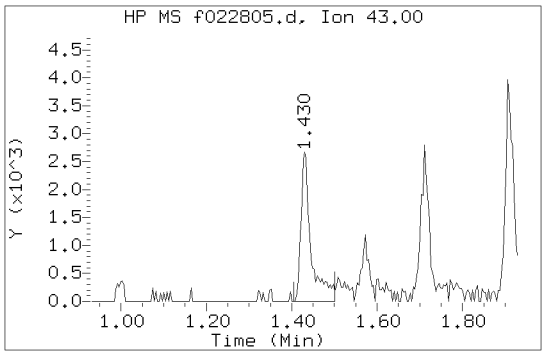
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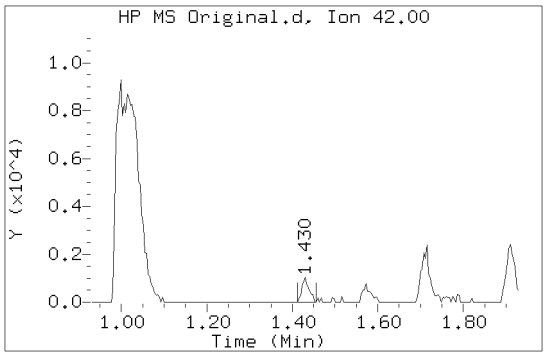
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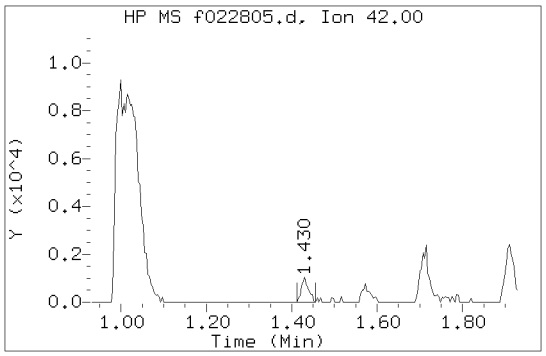
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AFTER

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11-Mar-2024
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Data File: \\NAHSTWS005\Target\chem\voa10.i\G240228.b\F022806.D Page 1
Report Date: 11-Mar-2024 13:59

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa10.i\G240228.b\F022806.D
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Misc Info : V10;WATER;0;1;
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Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 01_STD_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.695	4.695	(1.000)	229643	50.0000	
2	Dichlorodifluoromethane	85	1.152	1.152	(0.246)	9653	5.00000	4.87(a)
3	Chloromethane	50	1.280	1.280	(0.273)	20730	5.00000	4.96(a)
4	Propionitrile	54	4.155	4.155	(0.885)	14410	50.0000	54.17(a)
5	Vinyl Chloride	62	1.355	1.355	(0.289)	13254	5.00000	4.86(a)
6	Bromomethane	94	1.587	1.587	(0.338)	5161	5.00000	4.68(aM)
7	Chloroethane	64	1.662	1.662	(0.354)	8118	5.00000	5.02
8	Trichlorofluoromethane	101	1.853	1.853	(0.395)	13731	5.00000	5.09(M)
9	Acrolein	56	3.165	3.165	(0.674)	6887	10.0000	9.98(a)
10	Acetone	43	2.318	2.318	(0.494)	10222	10.0000	11.39
11	1,1-Dichloroethene	96	2.266	2.266	(0.483)	8442	5.00000	5.14
12	Isobutyl Alcohol	43	5.167	5.167	(1.101)	26840	100.000	84.79
13	Acetonitrile	39	2.584	2.584	(0.551)	14688	50.0000	59.75
14	Allyl Chloride	41	2.588	2.588	(0.551)	31572	5.00000	7.27
15	Iodomethane	142	2.397	2.397	(0.511)	9170	10.0000	11.17
16	Acrylonitrile	53	2.941	2.941	(0.626)	7193	10.0000	7.91(a)
17	Methylene Chloride	84	2.704	2.704	(0.576)	11028	5.00000	5.33
18	Methyl tert-butyl ether	73	2.974	2.974	(0.634)	27085	5.00000	4.91
19	Carbon Disulfide	76	2.453	2.453	(0.523)	55139	10.0000	11.51
20	trans-1,2-Dichloroethene	96	2.963	2.963	(0.631)	9804	5.00000	5.04

21 Vinyl Acetate	43	3.495	3.495 (0.745)	44906	10.0000	9.61
22 1,1-Dichloroethane	63	3.398	3.398 (0.724)	20516	5.00000	5.16(M)

Data File: \\NAHSTWS005\Target\chem\voa10.i\G240228.b\F022806.D Page 2
Report Date: 11-Mar-2024 13:59

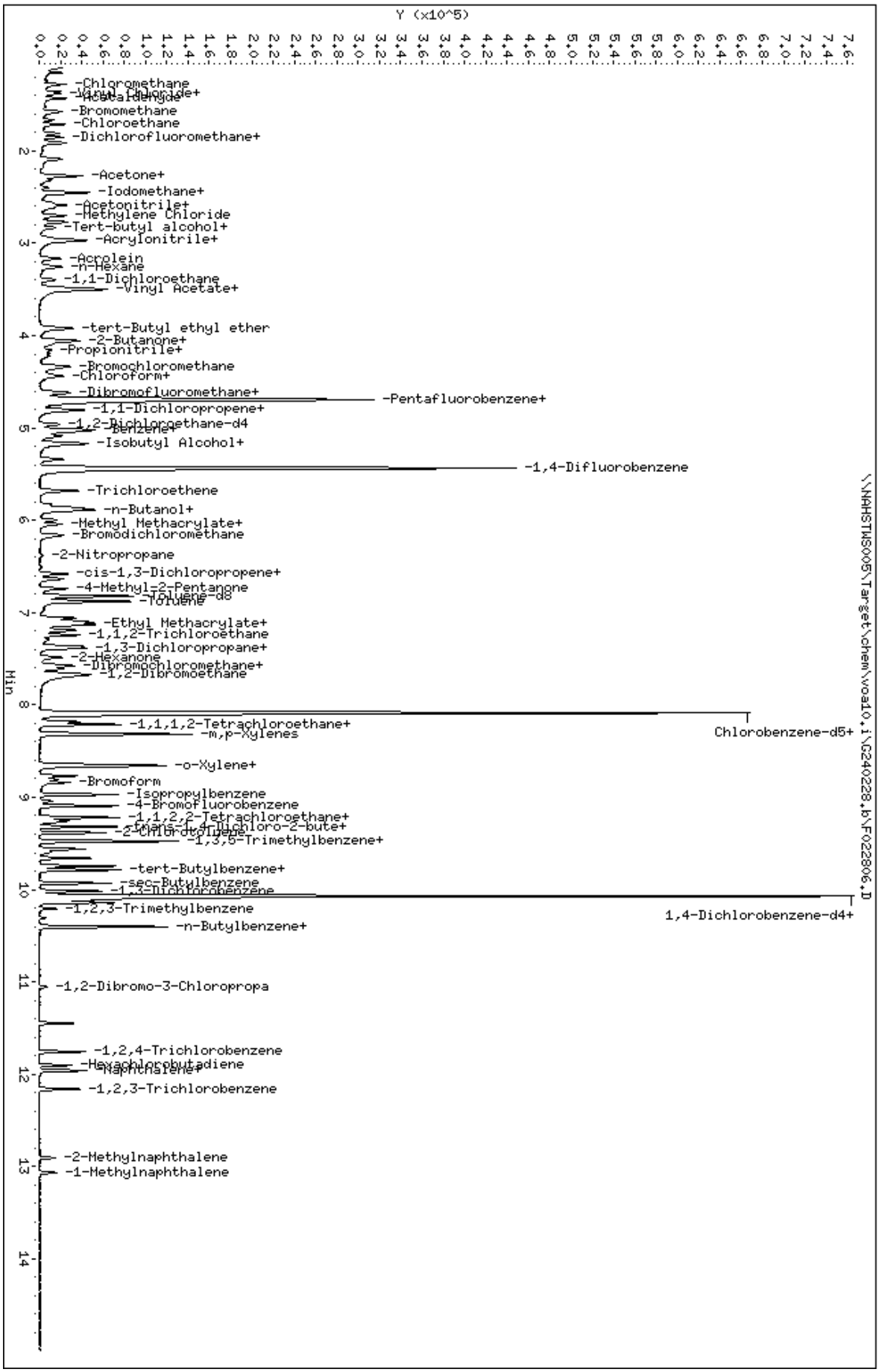
			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
	24	2-Butanone	43	4.103	4.103	(0.874)	8785	10.0000	10.91
	25	Methacrylonitrile	41	4.054	4.054	(0.863)	11958	5.00000	4.85
	26	2,2-Dichloropropane	77	4.058	4.058	(0.864)	13515	5.00000	4.99(a)
	27	cis-1,2-Dichloroethene	96	4.061	4.061	(0.865)	10711	5.00000	5.00
	28	Chloroform	83	4.440	4.440	(0.946)	19287	5.00000	4.95(a)
	29	Bromochloromethane	128	4.335	4.335	(0.923)	4861	5.00000	5.59
$	30	Dibromofluoromethane	113	4.609	4.609	(0.982)	9956	5.00000	5.52
	31	1,1,1-Trichloroethane	97	4.620	4.620	(0.984)	15163	5.00000	5.18
	32	1,1-Dichloropropene	75	4.807	4.807	(0.884)	15529	5.00000	5.04
	33	1,2-Dichloroethane	62	5.044	5.044	(0.928)	15798	5.00000	5.22(M)
	34	Carbon Tetrachloride	117	4.804	4.804	(0.883)	12372	5.00000	4.80(aM)
$	35	1,2-Dichloroethane-d4	65	4.961	4.961	(1.057)	14501	5.00000	5.42
*	36	1,4-Difluorobenzene	114	5.437	5.437	(1.000)	351079	50.0000	
	37	Benzene	78	5.017	5.017	(0.923)	45202	5.00000	4.83
	38	Trichloroethene	130	5.681	5.681	(1.045)	10413	5.00000	4.96(a)
	39	Bromodichloromethane	83	6.161	6.161	(1.133)	13883	5.00000	5.02
	40	Methyl Methacrylate	41	6.044	6.044	(1.287)	11238	5.00000	4.87
	42	1,2-Dichloropropane	63	5.891	5.891	(1.083)	12841	5.00000	5.09(M)
	43	2-Nitropropane	43	6.378	6.378	(1.358)	2307	5.00000	6.37(M)
	44	Dibromomethane	93	5.996	5.996	(1.103)	5812	5.00000	5.20
	45	4-Methyl-2-Pentanone	43	6.742	6.742	(0.834)	21438	10.0000	9.54
	46	cis-1,3-Dichloropropene	75	6.580	6.580	(1.210)	14640	5.00000	4.64(a)
*	47	Chlorobenzene-d5	117	8.084	8.084	(1.000)	296774	50.0000	
$	48	Toluene-d8	98	6.820	6.820	(0.844)	47105	5.00000	4.98(a)
	49	Ethyl Methacrylate	69	7.105	7.105	(1.307)	9066	5.00000	5.60
	50	Toluene	91	6.880	6.880	(0.851)	43347	5.00000	4.75
	51	trans-1,3-Dichloropropene	75	7.087	7.087	(1.303)	10817	5.00000	4.46(a)
	52	2-Hexanone	43	7.484	7.484	(0.926)	14590	10.0000	9.14
	53	1,1,2-Trichloroethane	83	7.240	7.240	(0.896)	7718	5.00000	4.94(a)
	54	1,3-Dichloropropane	76	7.386	7.386	(0.914)	16867	5.00000	4.92(a)
	55	Dibromochloromethane	129	7.581	7.581	(0.938)	9046	5.00000	4.91(a)
	56	Tetrachloroethene	164	7.368	7.368	(0.911)	7524	5.00000	4.71(a)
	57	1,2-Dibromoethane	107	7.675	7.675	(0.949)	8626	5.00000	5.02
	58	1-Chlorohexane	55	8.102	8.102	(1.490)	13157	5.00000	5.58
	59	Chlorobenzene	112	8.106	8.106	(1.003)	25378	5.00000	4.70(a)
	60	1,1,1,2-Tetrachloroethane	131	8.185	8.185	(1.013)	9024	5.00000	4.83(a)
	61	Ethylbenzene	106	8.215	8.215	(1.016)	12803	5.00000	4.69
	62	m,p-Xylenes	106	8.316	8.316	(1.029)	32966	10.0000	9.42
	63	o-Xylene	106	8.653	8.653	(1.070)	15932	5.00000	4.72
	64	Styrene	104	8.665	8.665	(1.072)	24757	5.00000	4.54(a)
	66	Bromoform	173	8.811	8.811	(1.090)	6079	5.00000	4.88(Ta)
	67	Isopropylbenzene	105	8.968	8.968	(1.109)	39790	5.00000	4.68(a)
	68	1,1,2,2-Tetrachloroethane	83	9.223	9.223	(0.916)	12149	5.00000	5.20
$	69	4-Bromofluorobenzene	95	9.096	9.096	(1.125)	20408	5.00000	5.12
*	70	1,4-Dichlorobenzene-d4	152	10.070	10.070	(1.000)	154009	50.0000	
	71	1,2,3-Trichloropropane	75	9.257	9.257	(0.919)	12510	5.00000	5.03
	72	trans-1,4-Dichloro-2-butene	53	9.272	9.272	(1.147)	2924	5.00000	4.87
	73	n-Propylbenzene	91	9.321	9.321	(0.926)	46030	5.00000	4.78(a)
	74	Bromobenzene	156	9.216	9.216	(0.915)	11056	5.00000	4.92(a)
	75	1,3,5-Trimethylbenzene	105	9.471	9.471	(0.940)	31744	5.00000	4.76(a)
	76	2-Chlorotoluene	91	9.388	9.388	(0.932)	30460	5.00000	5.01
	77	4-Chlorotoluene	91	9.478	9.478	(0.941)	34767	5.00000	4.98(a)

78	tert-Butylbenzene	119	9.744	9.744 (0.968)	26934	5.00000	4.84(a)
79	1,2,4-Trimethylbenzene	105	9.786	9.786 (0.972)	32400	5.00000	4.78(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	81 sec-Butylbenzene	105	9.932	9.932	(0.986)	36274	5.00000	4.76(a)
	82 p-Isopropyltoluene	119	10.055	10.055	(0.999)	29557	5.00000	4.55(a)
	83 1,3-Dichlorobenzene	146	10.018	10.018	(0.995)	20075	5.00000	4.92(a)
	84 1,4-Dichlorobenzene	146	10.089	10.089	(1.002)	20918	5.00000	4.81(a)
	87 n-Butylbenzene	91	10.400	10.400	(1.033)	28848	5.00000	4.51(a)
	88 1,2-Dichlorobenzene	146	10.404	10.404	(1.033)	19551	5.00000	4.84(a)
	89 1,2-Dibromo-3-Chloropropane	155	11.060	11.060	(1.098)	1394	5.00000	4.76(a)
	90 1,2,4-Trichlorobenzene	180	11.754	11.754	(1.167)	11255	5.00000	4.57(a)
	91 Hexachlorobutadiene	225	11.907	11.907	(1.182)	5174	5.00000	5.13
	92 Naphthalene	128	11.964	11.964	(1.188)	25914	5.00000	4.67(a)
	93 1,2,3-Trichlorobenzene	180	12.162	12.162	(1.208)	10447	5.00000	5.22
	135 1,4-Dioxane	88	6.041	6.041	(1.287)	1487	100.000	94.57(a)
	130 Ethyl Acetate	43	4.196	4.196	(0.894)	13400	5.00000	5.62(M)
	136 n-Hexane	57	3.259	3.259	(0.694)	11168	5.00000	4.66(aM)
	138 Freon TF	101	2.277	2.277	(0.485)	8911	5.00000	5.32
	139 Diethyl ether	59	2.832	2.832	(0.603)	15390	5.00000	5.96(M)
	141 Cyclohexane	56	4.684	4.684	(0.998)	22252	5.00000	5.04
	142 Tetrahydrofuran	42	4.403	4.403	(0.938)	3328	10.0000	10.52
	146 Methyl Acetate	43	2.618	2.618	(0.558)	14060	5.00000	5.03
	147 Methylcyclohexane	55	5.861	5.861	(1.078)	16114	5.00000	4.70(aM)
	148 Tert-butyl alcohol	59	2.832	2.832	(0.603)	13103	100.000	110.25
	149 Isopropyl alcohol	45	2.453	2.453	(0.523)	9905	100.000	112.34(T)
	151 4-Methyl-2-pentanol	45	7.105	7.105	(1.307)	57926	100.000	130.36
	156 Diisopropyl ether	45	3.503	3.503	(0.746)	44462	5.00000	4.97(Ta)
	158 Dichlorofluoromethane	67	1.808	1.808	(0.385)	15242	5.00000	4.72(M)
	166 1,2,3-Trimethylbenzene	105	10.142	10.142	(1.007)	31997	5.00000	4.30(a)
	160 2-Methylnaphthalene	142	12.908	12.908	(1.282)	7147	5.00000	4.95(a)
	180 1-Methylnaphthalene	142	13.066	13.066	(1.297)	6901	5.00000	4.57(a)
	174 tert-Amyl methyl ether	73	5.175	5.175	(1.102)	26854	5.00000	4.63(a)
	175 tert-Butyl ethyl ether	59	3.919	3.919	(0.835)	32526	5.00000	4.92(a)
	132 n-Butanol	56	5.868	5.868	(1.250)	4751	100.000	88.39(a)
	140 1,3-Butadiene	54	1.377	1.377	(0.293)	4313	5.00000	5.08(M)
	189 n-Butyl acetate	43	7.608	7.608	(0.941)	15302	5.00000	4.75(aM)
	86 Benzyl Chloride	91	10.400	10.400	(1.287)	28848	5.00000	4.41(a)
	182 Epichlorohydrin	57	6.509	6.509	(1.197)	1452	20.0000	26.10(M)
	150 Allyl alcohol	57	3.495	3.495	(0.745)	1711	100.000	100.44
	162 Butyl acrylate	55	8.642	8.642	(1.069)	19782	5.00000	5.92
	194 Acetaldehyde	44	1.430	1.430	(0.305)	21593	20.0000	19.81(M)
	131 Methyl Acrylate	55	4.226	4.226	(0.900)	10104	5.00000	5.35
	133 Ethyl Acrylate	55	5.823	5.823	(1.240)	10763	5.00000	4.37(TaM)
M	94 1,2-Dichloroethylene (total)	96				20515	10.0000	(a)
M	95 Xylenes (total)	106				48898	15.0000	(a)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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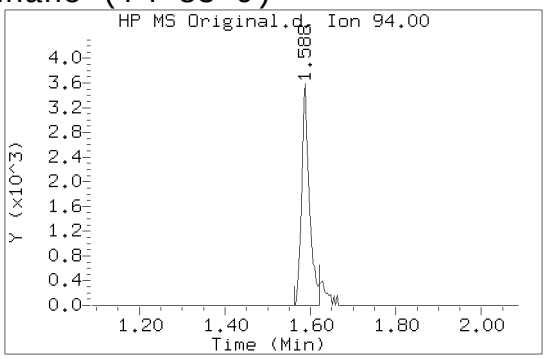
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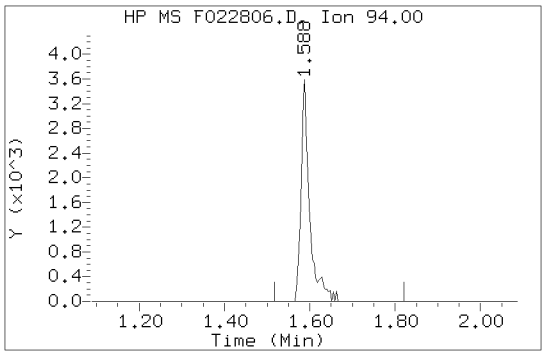
Bromomethane (74-83-9)

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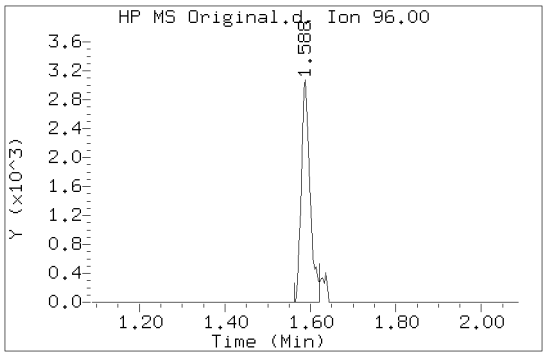
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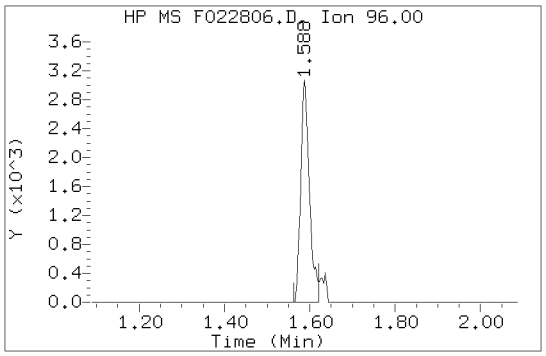
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11-Mar-2024
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BEFORE
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28-Feb-2024
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ALSHS
Server



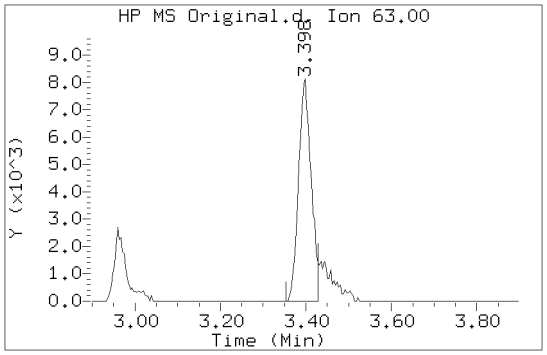
AFTER
MASS
96
AREA
4510
HEIGHT
3075
11-Mar-2024
13:57
ALSHS
Ser



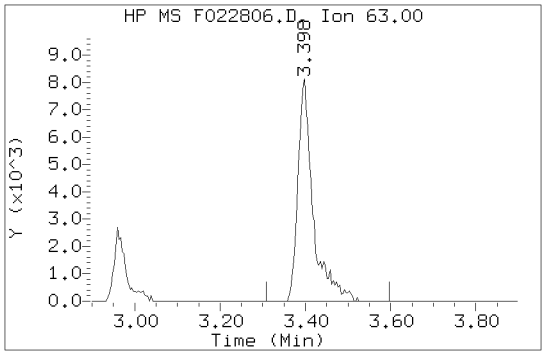
1,1-Dichloroethane (75-34-3)

Reason Code:

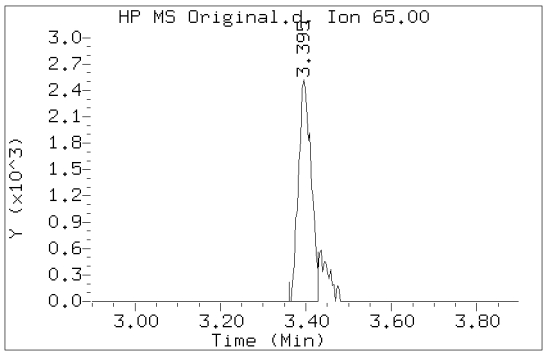
BEFORE
MASS
63
AREA
16952
HEIGHT
8131
28-Feb-2024
18:50
ALSHS
Server



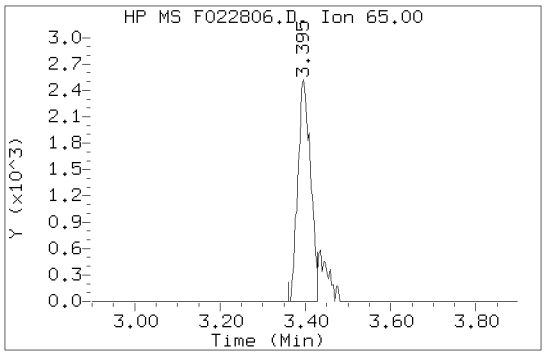
AFTER
MASS
63
AREA
20516
HEIGHT
8131
11-Mar-2024
13:57
ALSHS
Ser



BEFORE
MASS
65
AREA
5306
HEIGHT
2522
28-Feb-2024
18:50
ALSHS
Server



AFTER
MASS
65
AREA
5306
HEIGHT
2522
11-Mar-2024
13:57
ALSHS
Ser



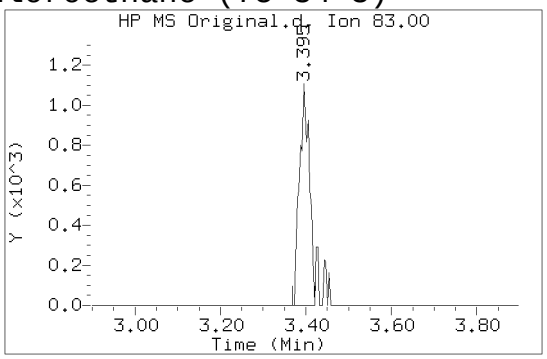
Data File : \\NAHSTWS005\Target\chem\voa10.i\G240228.b\F022806.D
Inj Date : 28-FEB-2024 18:33
InstruID : voa10.i
LabSampID : VSTD005

1,1-Dichloroethane (75-34-3)

Reason Code:

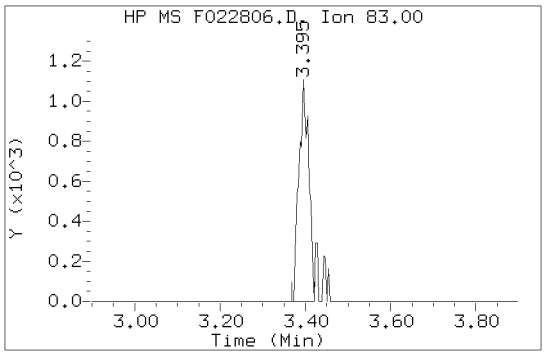
BEFORE

MASS
83
AREA
1804
HEIGHT
1108
28-Feb-2024
18:50
ALSHS
Server



AFTER

MASS
83
AREA
1804
HEIGHT
1108
11-Mar-2024
13:57
ALSHS
Ser

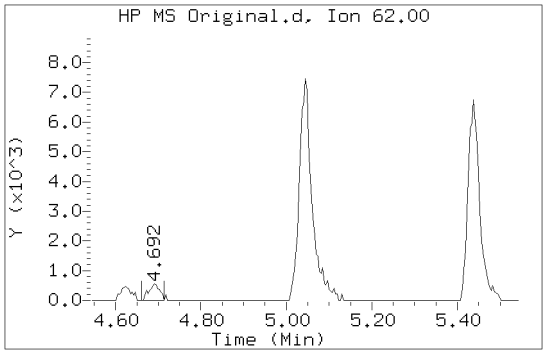


1,2-Dichloroethane (107-06-2)

Reason Code:

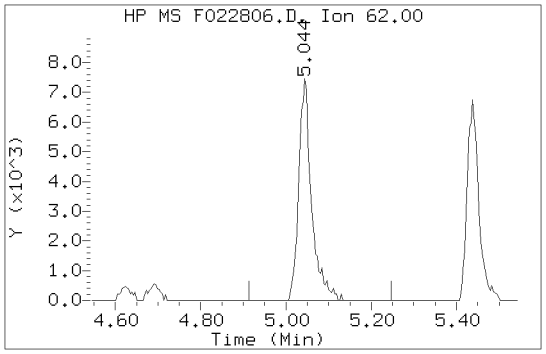
BEFORE

MASS
62
AREA
962
HEIGHT
564
28-Feb-2024
18:50
ALSHS
Server



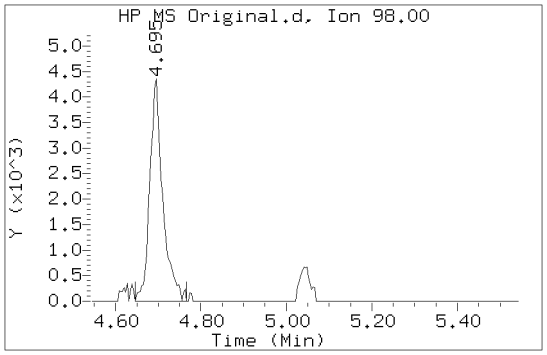
AFTER

MASS
62
AREA
15798
HEIGHT
7460
11-Mar-2024
13:57
ALSHS
Ser



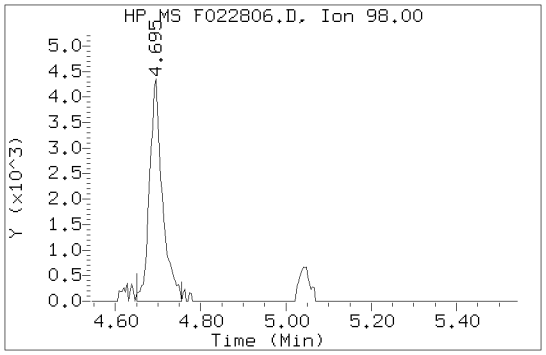
BEFORE

MASS
98
AREA
9206
HEIGHT
4355
28-Feb-2024
18:50
ALSHS
Server



AFTER

MASS
98
AREA
9118
HEIGHT
4355
11-Mar-2024
13:57
ALSHS
Ser

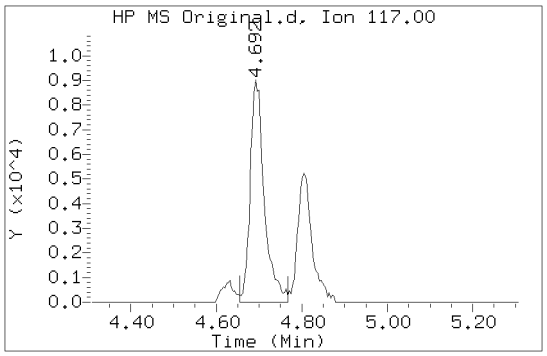


Carbon Tetrachloride (56-23-5)

Reason Code:

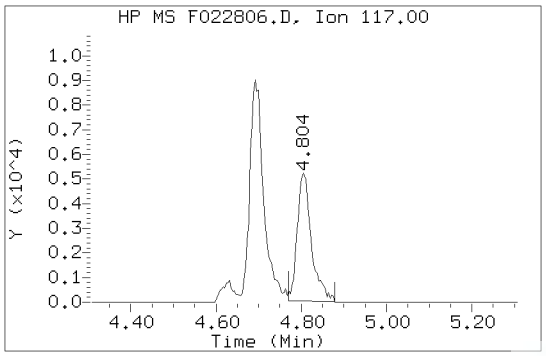
BEFORE

MASS
117
AREA
20765
HEIGHT
9022
28-Feb-2024
18:50
ALSHS
Server



AFTER

MASS
117
AREA
12372
HEIGHT
5214
11-Mar-2024
13:57
ALSHS
Ser



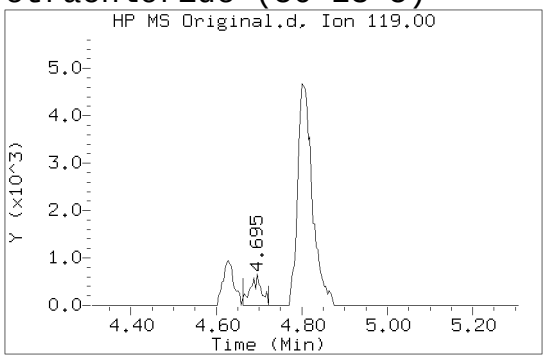
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Inj Date : 28-FEB-2024 18:33
InstruID : voa10.i
LabSampID : VSTD005

Carbon Tetrachloride (56-23-5)

Reason Code:

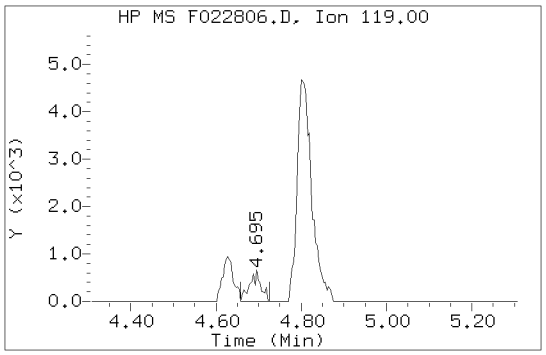
BEFORE

MASS
119
AREA
1166
HEIGHT
659
28-Feb-2024
18:50
ALSHS
Server



AFTER

MASS
119
AREA
1167
HEIGHT
659
11-Mar-2024
13:57
ALSHS
Ser

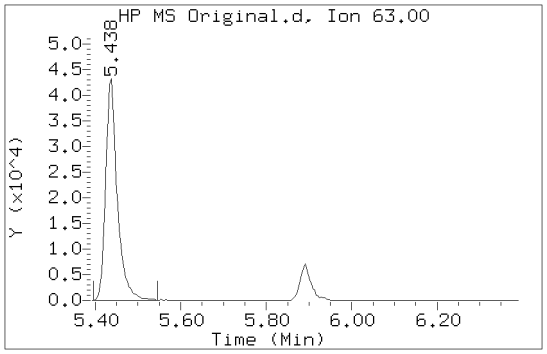


1,2-Dichloropropane (78-87-5)

Reason Code:

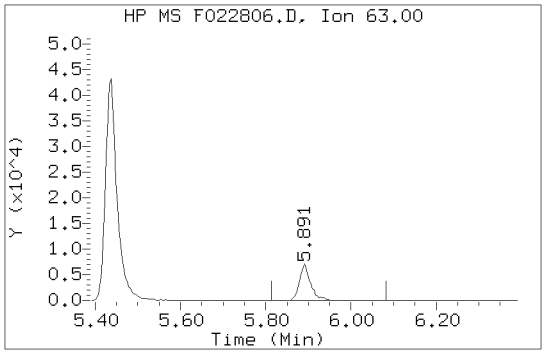
BEFORE

MASS
63
AREA
81471
HEIGHT
43264
28-Feb-2024
18:50
ALSHS
Server



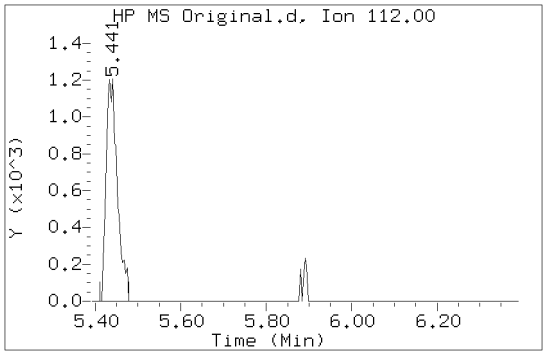
AFTER

MASS
63
AREA
12841
HEIGHT
7107
11-Mar-2024
13:57
ALSHS
Ser



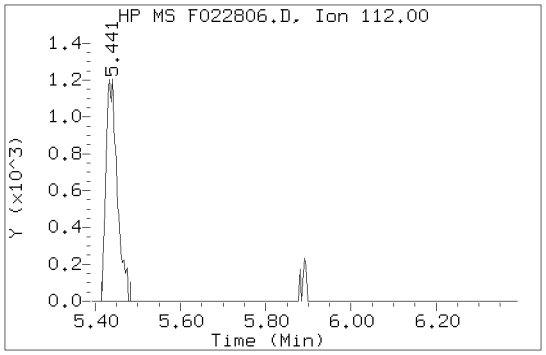
BEFORE

MASS
112
AREA
2196
HEIGHT
1206
28-Feb-2024
18:50
ALSHS
Server



AFTER

MASS
112
AREA
2196
HEIGHT
1206
11-Mar-2024
13:57
ALSHS
Ser

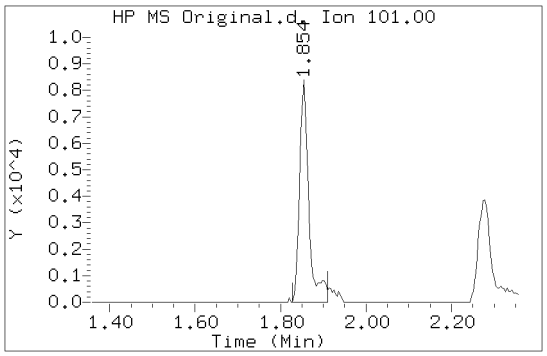


Trichlorofluoromethane (75-69-4)

Reason Code:

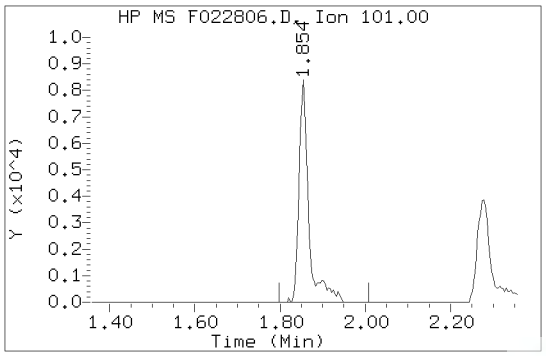
BEFORE

MASS
101
AREA
12969
HEIGHT
8395
28-Feb-2024
18:50
ALSHS
Server



AFTER

MASS
101
AREA
13731
HEIGHT
8395
11-Mar-2024
13:57
ALSHS
Ser

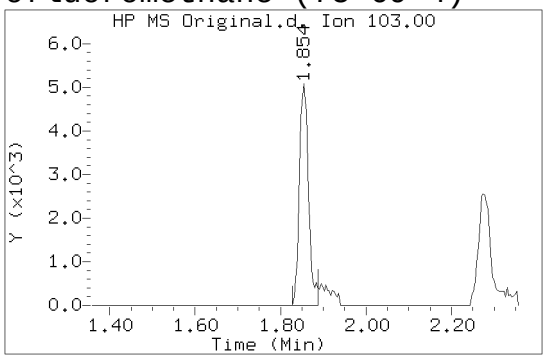


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Inj Date : 28-FEB-2024 18:33
InstruID : voa10.i
LabSampID : VSTD005

Trichlorofluoromethane (75-69-4)

BEFORE

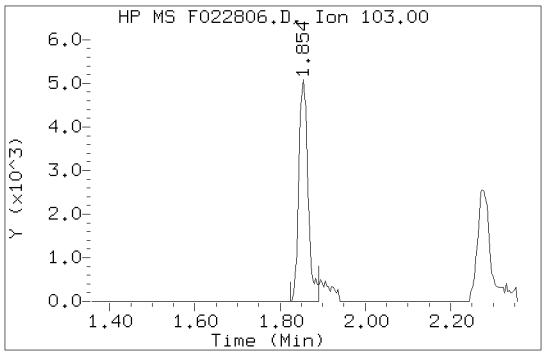
MASS
103
AREA
7794
HEIGHT
5084
28-Feb-2024
18:50
ALSHS
Server



Reason Code:

AFTER

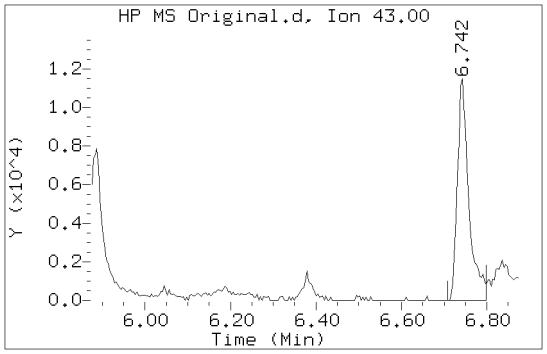
MASS
103
AREA
7878
HEIGHT
5084
11-Mar-2024
13:57
ALSHS
Ser



2-Nitropropane (79-46-9)

BEFORE

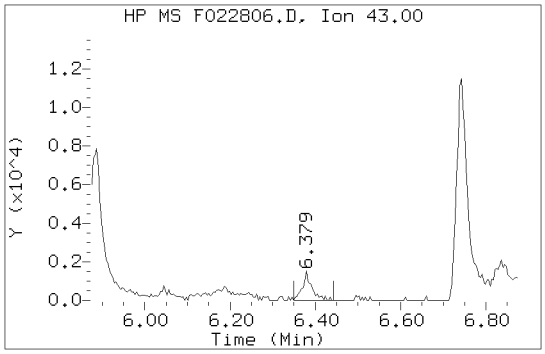
MASS
43
AREA
21438
HEIGHT
11493
28-Feb-2024
18:50
ALSHS
Server



Reason Code:

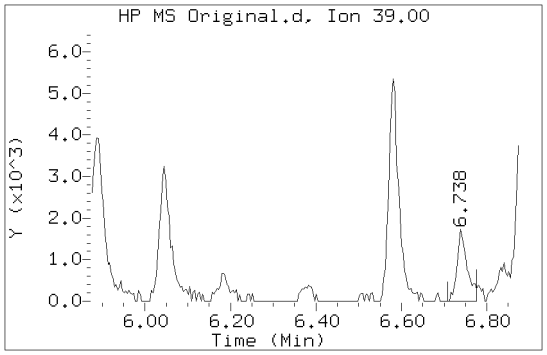
AFTER

MASS
43
AREA
2307
HEIGHT
1542
11-Mar-2024
13:57
ALSHS
Ser



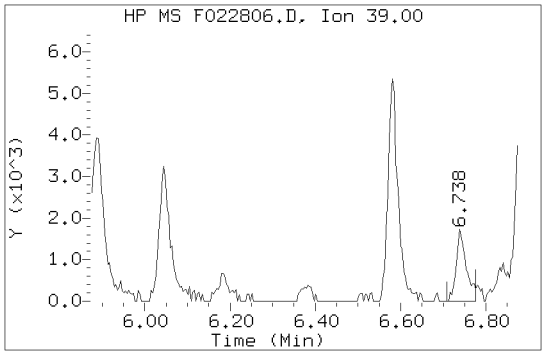
BEFORE

MASS
39
AREA
2874
HEIGHT
1729
28-Feb-2024
18:50
ALSHS
Server



AFTER

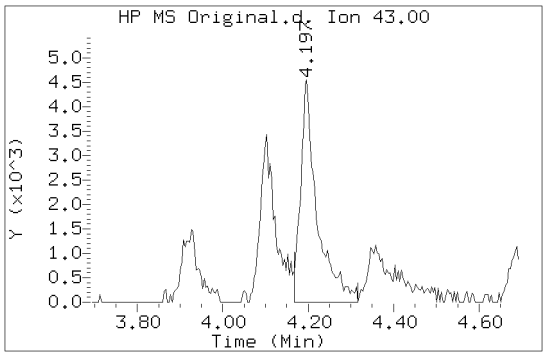
MASS
39
AREA
2874
HEIGHT
1729
11-Mar-2024
13:57
ALSHS
Ser



Ethyl Acetate (141-78-6)

BEFORE

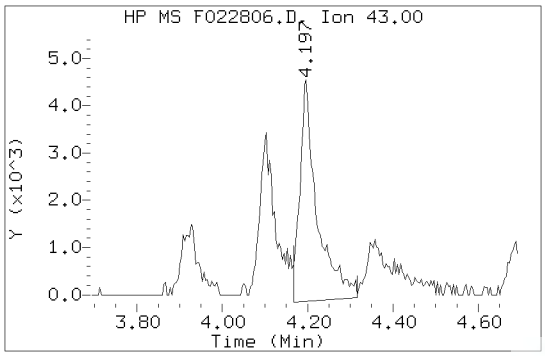
MASS
43
AREA
12427
HEIGHT
4548
28-Feb-2024
18:50
ALSHS
Server



Reason Code:

AFTER

MASS
43
AREA
13400
HEIGHT
4683
11-Mar-2024
13:57
ALSHS
Ser



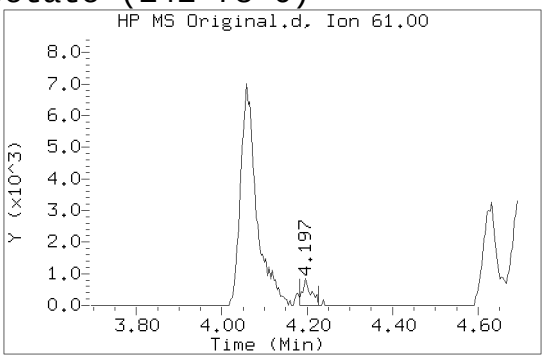
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Inj Date : 28-FEB-2024 18:33
InstruID : voa10.i
LabSampID : VSTD005

Ethyl Acetate (141-78-6)

Reason Code:

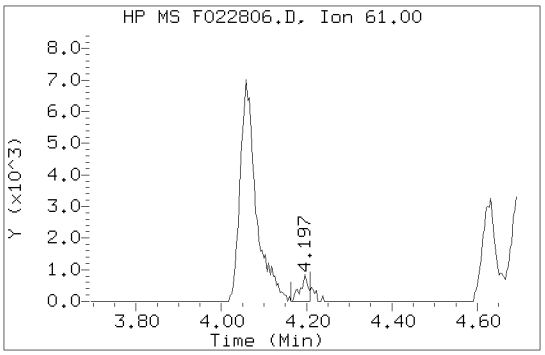
BEFORE

MASS
61
AREA
1192
HEIGHT
859
28-Feb-2024
18:50
ALSHS
Server



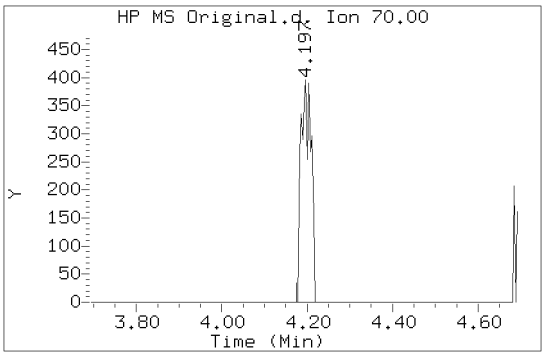
AFTER

MASS
61
AREA
1087
HEIGHT
859
11-Mar-2024
13:57
ALSHS
Ser



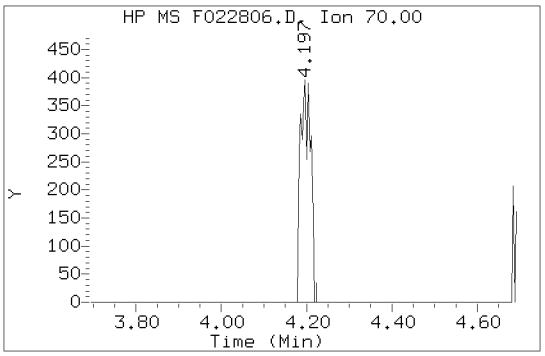
BEFORE

MASS
70
AREA
675
HEIGHT
396
28-Feb-2024
18:50
ALSHS
Server



AFTER

MASS
70
AREA
675
HEIGHT
396
11-Mar-2024
13:57
ALSHS
Ser

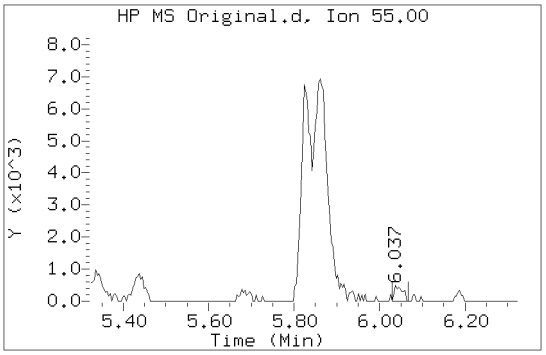


Ethyl Acrylate (140-88-5)

Reason Code:

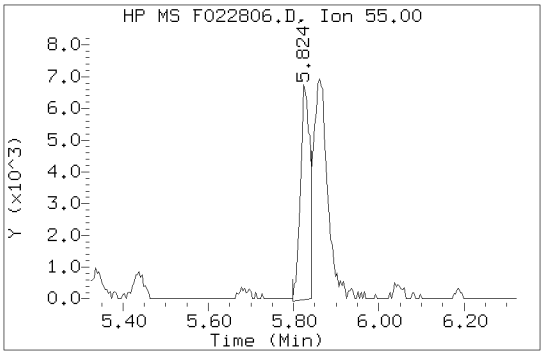
BEFORE

MASS
55
AREA
654
HEIGHT
509
28-Feb-2024
18:50
ALSHS
Server



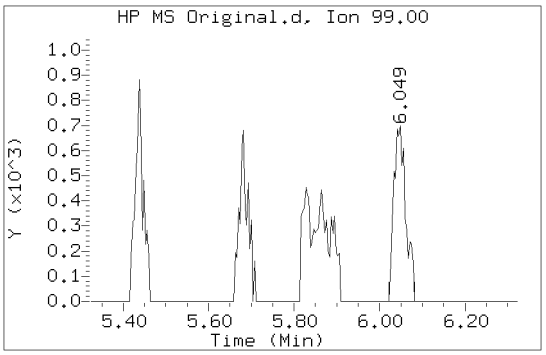
AFTER

MASS
55
AREA
10763
HEIGHT
6786
11-Mar-2024
13:57
ALSHS
Ser



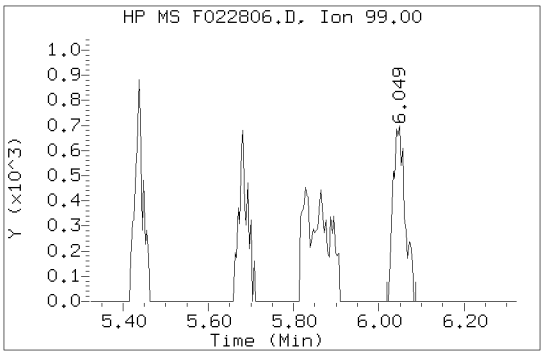
BEFORE

MASS
99
AREA
1365
HEIGHT
698
28-Feb-2024
18:50
ALSHS
Server



AFTER

MASS
99
AREA
1365
HEIGHT
698
11-Mar-2024
13:57
ALSHS
Ser



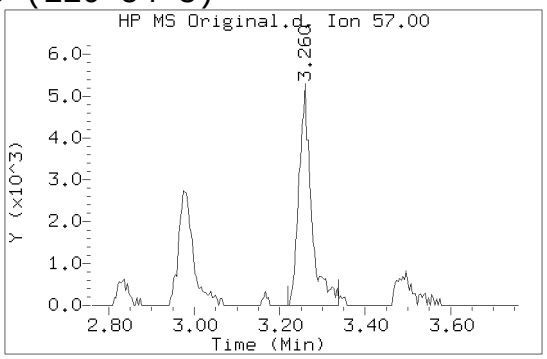
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Inj Date : 28-FEB-2024 18:33
InstruID : voa10.i
LabSampID : VSTD005

n-Hexane (110-54-3)

Reason Code:

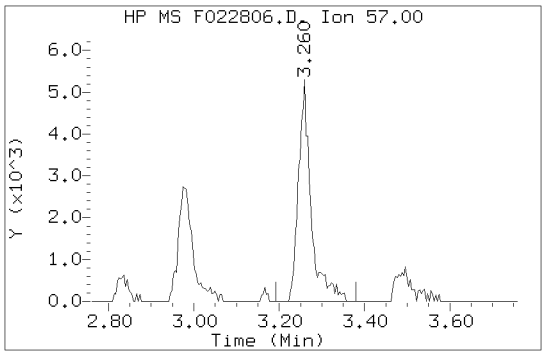
BEFORE

MASS
57
AREA
10991
HEIGHT
5299
28-Feb-2024
18:50
ALSHS
Server



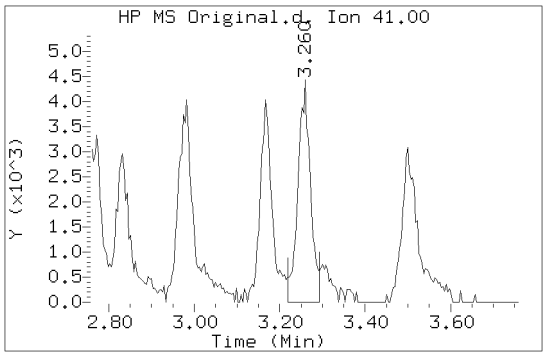
AFTER

MASS
57
AREA
11168
HEIGHT
5299
11-Mar-2024
13:57
ALSHS
Ser



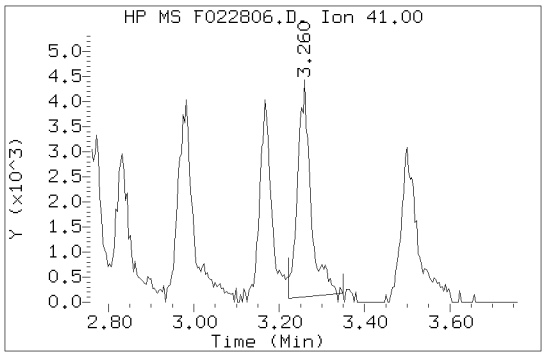
BEFORE

MASS
41
AREA
9203
HEIGHT
4432
28-Feb-2024
18:50
ALSHS
Server



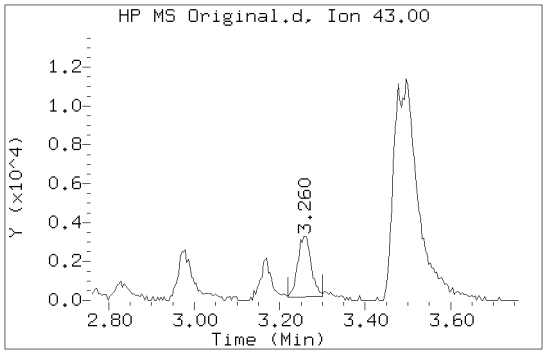
AFTER

MASS
41
AREA
9470
HEIGHT
4322
11-Mar-2024
13:57
ALSHS
Ser



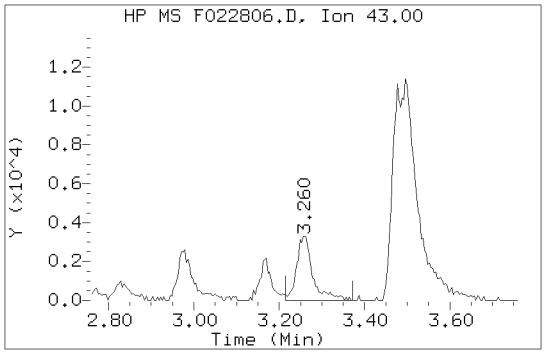
BEFORE

MASS
43
AREA
6983
HEIGHT
3129
28-Feb-2024
18:50
ALSHS
Server



AFTER

MASS
43
AREA
8886
HEIGHT
3306
11-Mar-2024
13:57
ALSHS
Ser

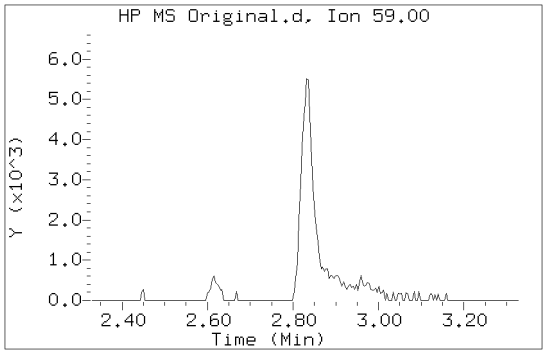


Diethyl ether (60-29-7)

Reason Code:

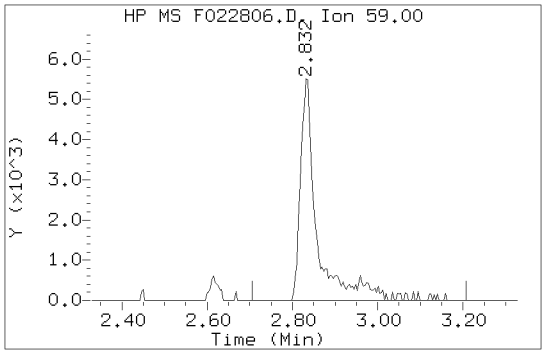
BEFORE

MASS
59
AREA
0
HEIGHT
0
28-Feb-2024
18:50
ALSHS
Server



AFTER

MASS
59
AREA
15390
HEIGHT
5514
11-Mar-2024
13:57
ALSHS
Ser

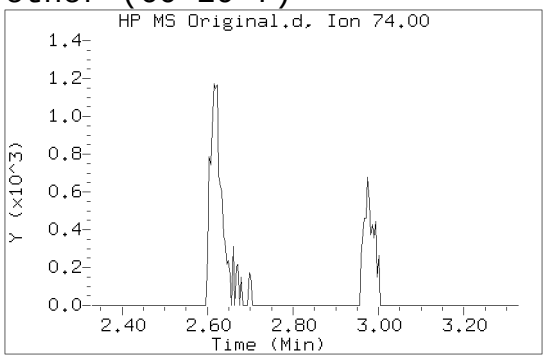


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Inj Date : 28-FEB-2024 18:33
InstruID : voa10.i
LabSampID : VSTD005

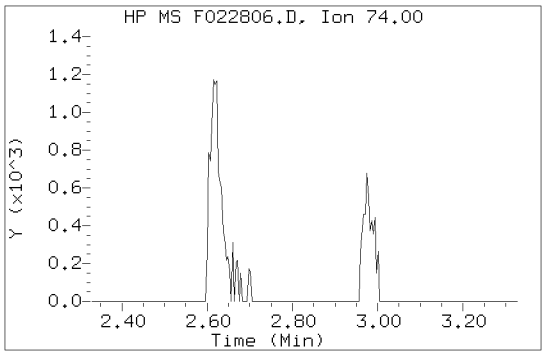
Diethyl ether (60-29-7)

Reason Code:

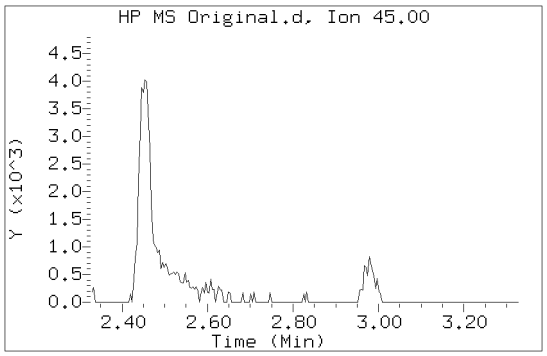
BEFORE
MASS
74
AREA
0
HEIGHT
0
28-Feb-2024
18:50
ALSHS
Server



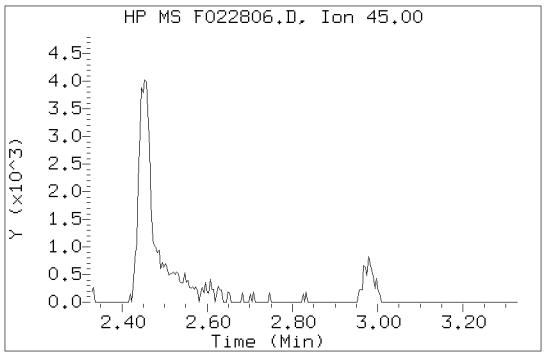
AFTER
MASS
74
AREA
0
HEIGHT
0
11-Mar-2024
13:57
ALSHS
Ser



BEFORE
MASS
45
AREA
0
HEIGHT
0
28-Feb-2024
18:50
ALSHS
Server



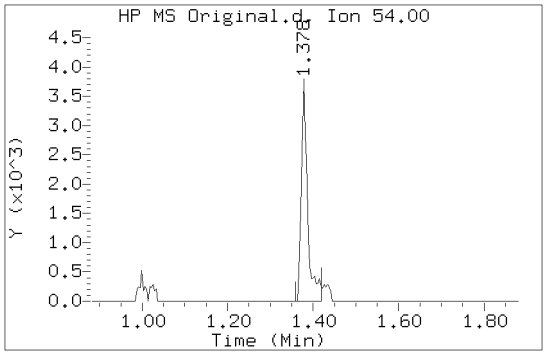
AFTER
MASS
45
AREA
0
HEIGHT
0
11-Mar-2024
13:57
ALSHS
Ser



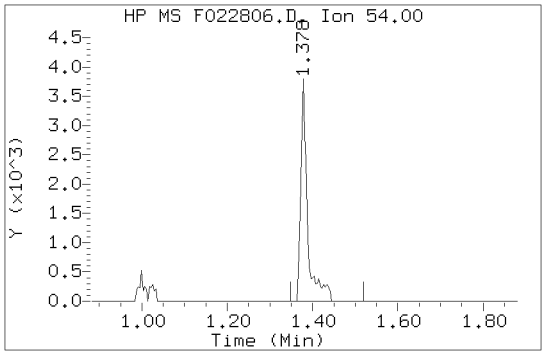
1,3-Butadiene (106-99-0)

Reason Code:

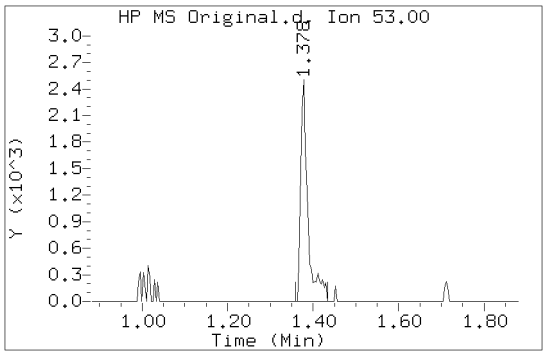
BEFORE
MASS
54
AREA
3987
HEIGHT
3797
28-Feb-2024
18:50
ALSHS
Server



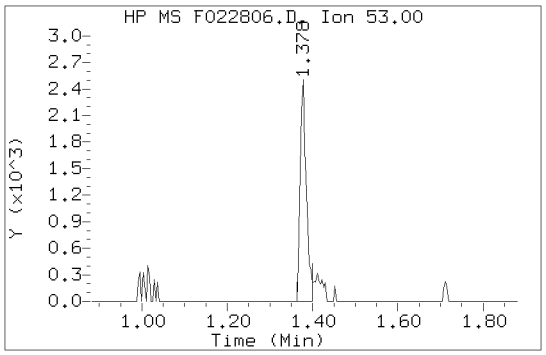
AFTER
MASS
54
AREA
4313
HEIGHT
3797
11-Mar-2024
13:57
ALSHS
Ser



BEFORE
MASS
53
AREA
2996
HEIGHT
2505
28-Feb-2024
18:50
ALSHS
Server



AFTER
MASS
53
AREA
2589
HEIGHT
2505
11-Mar-2024
13:57
ALSHS
Ser

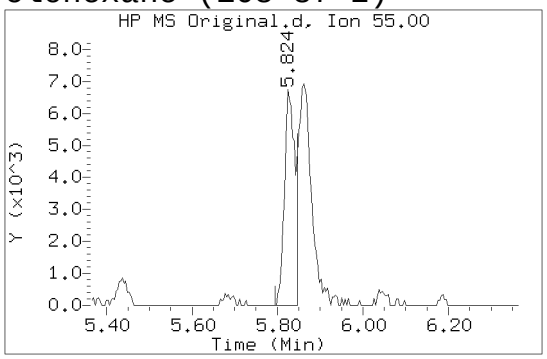


Data File : \\NAHSTWS005\Target\chem\voa10.i\G240228.b\F022806.D
Inj Date : 28-FEB-2024 18:33
InstruID : voa10.i
LabSampID : VSTD005

Methylcyclohexane (108-87-2)

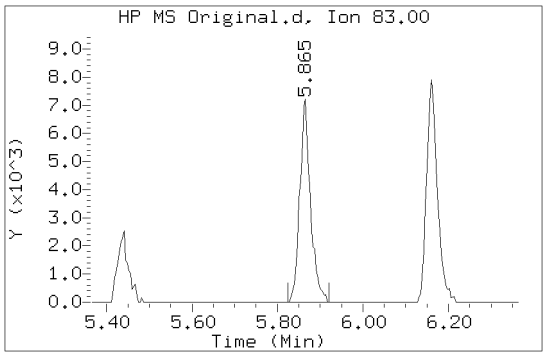
BEFORE

MASS
55
AREA
11728
HEIGHT
6756
28-Feb-2024
18:50
ALSHS
Server



BEFORE

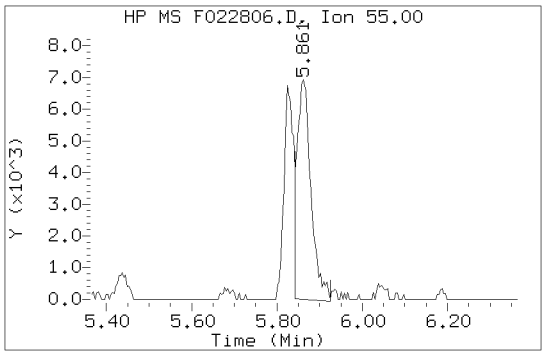
MASS
83
AREA
12827
HEIGHT
7217
28-Feb-2024
18:50
ALSHS
Server



Reason Code:

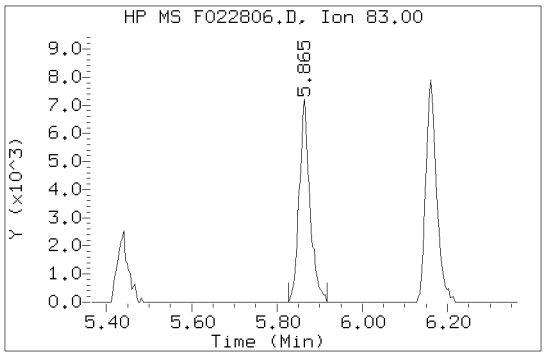
AFTER

MASS
55
AREA
16114
HEIGHT
6938
11-Mar-2024
13:57
ALSHS
Ser



AFTER

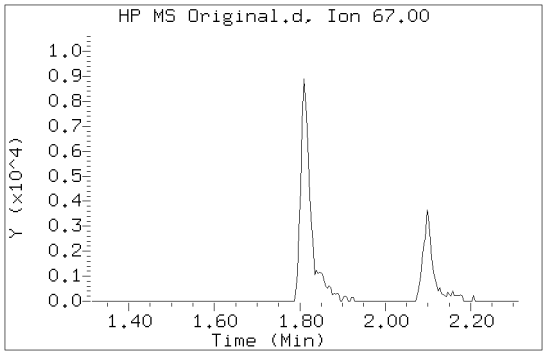
MASS
83
AREA
12826
HEIGHT
7217
11-Mar-2024
13:57
ALSHS
Ser



Dichlorofluoromethane (75-43-4)

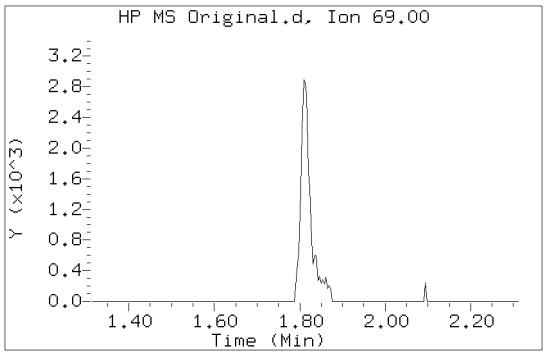
BEFORE

MASS
67
AREA
0
HEIGHT
0
28-Feb-2024
18:50
ALSHS
Server



BEFORE

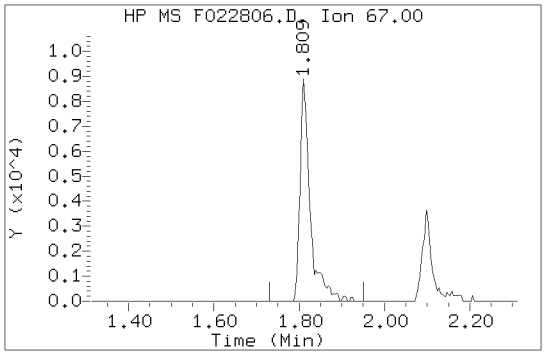
MASS
69
AREA
0
HEIGHT
0
28-Feb-2024
18:50
ALSHS
Server



Reason Code:

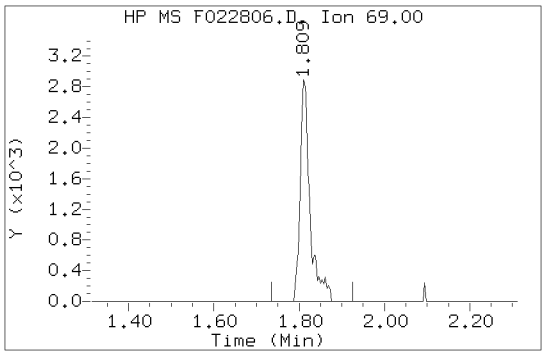
AFTER

MASS
67
AREA
15242
HEIGHT
8896
11-Mar-2024
13:57
ALSHS
Ser



AFTER

MASS
69
AREA
4789
HEIGHT
2893
11-Mar-2024
13:57
ALSHS
Ser



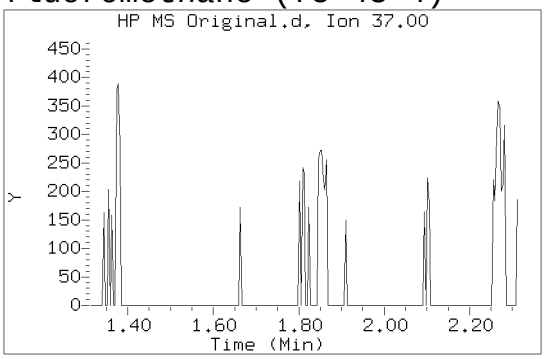
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Inj Date : 28-FEB-2024 18:33
InstruID : voa10.i
LabSampID : VSTD005

Dichlorofluoromethane (75-43-4)

Reason Code:

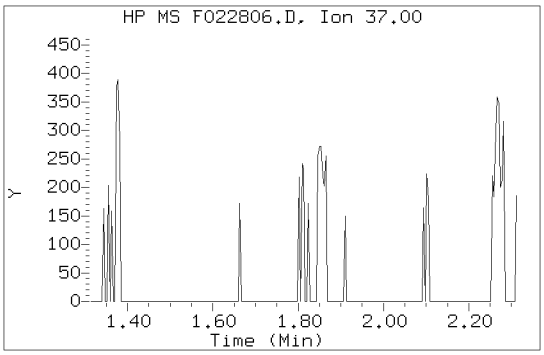
BEFORE

MASS
37
AREA
0
HEIGHT
0
28-Feb-2024
18:50
ALSHS
Server



AFTER

MASS
37
AREA
0
HEIGHT
0
11-Mar-2024
13:57
ALSHS
Ser

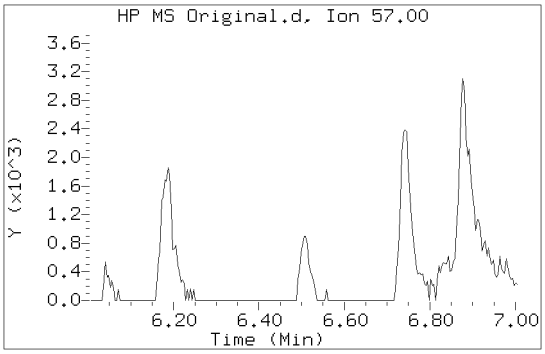


Epichlorohydrin (106-89-8)

Reason Code:

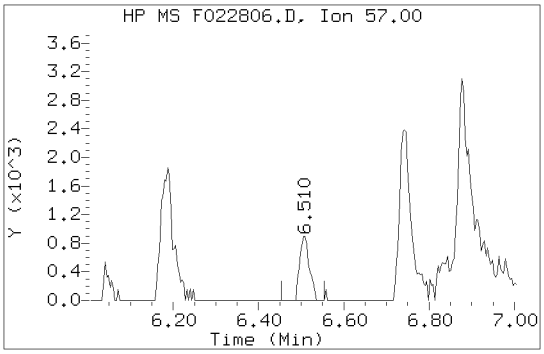
BEFORE

MASS
57
AREA
0
HEIGHT
0
28-Feb-2024
18:50
ALSHS
Server



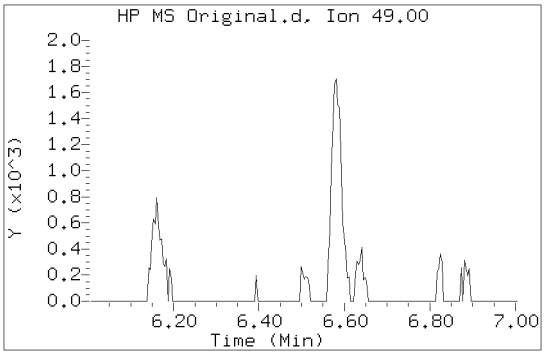
AFTER

MASS
57
AREA
1452
HEIGHT
900
11-Mar-2024
13:57
ALSHS
Ser



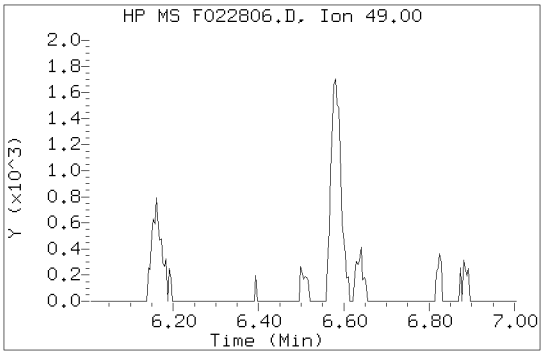
BEFORE

MASS
49
AREA
0
HEIGHT
0
28-Feb-2024
18:50
ALSHS
Server



AFTER

MASS
49
AREA
0
HEIGHT
0
11-Mar-2024
13:57
ALSHS
Ser

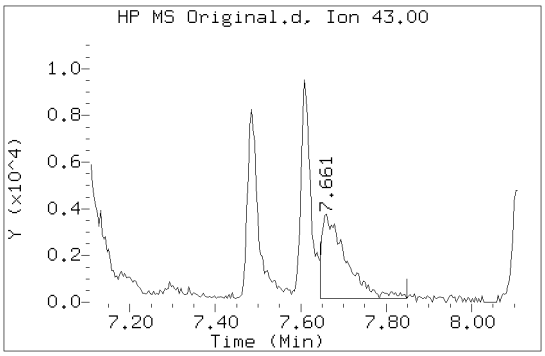


n-Butyl acetate (123-86-4)

Reason Code:

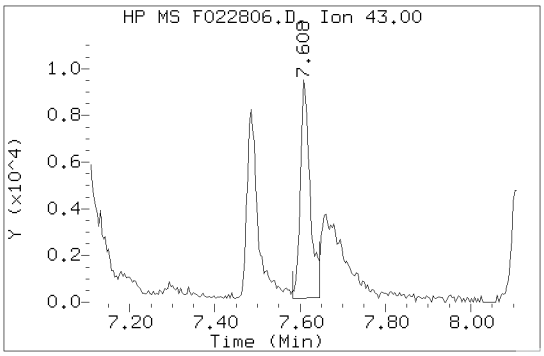
BEFORE

MASS
43
AREA
14199
HEIGHT
3603
28-Feb-2024
18:50
ALSHS
Server



AFTER

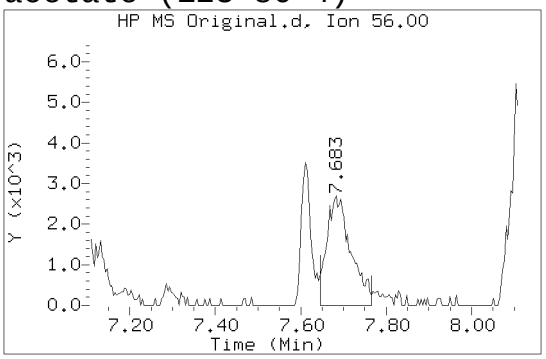
MASS
43
AREA
15302
HEIGHT
9347
11-Mar-2024
13:57
ALSHS
Ser



Data File : \\NAHSTWS005\Target\chem\voa10.i\G240228.b\F022806.D
Inj Date : 28-FEB-2024 18:33
InstruID : voa10.i
LabSampID : VSTD005

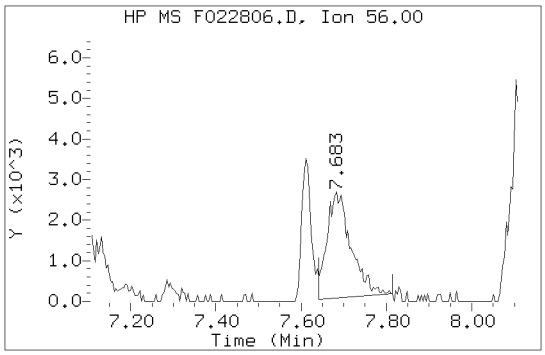
n-Butyl acetate (123-86-4)

BEFORE
MASS
56
AREA
10580
HEIGHT
2707
28-Feb-2024
18:50
ALSHS
Server

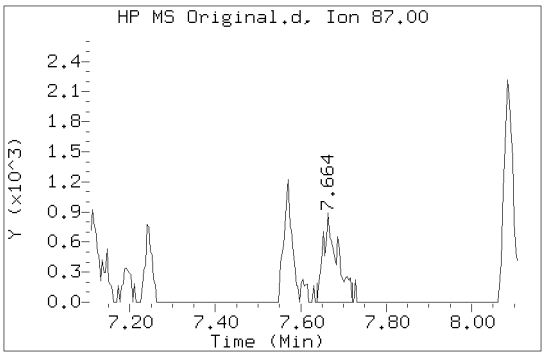


Reason Code:

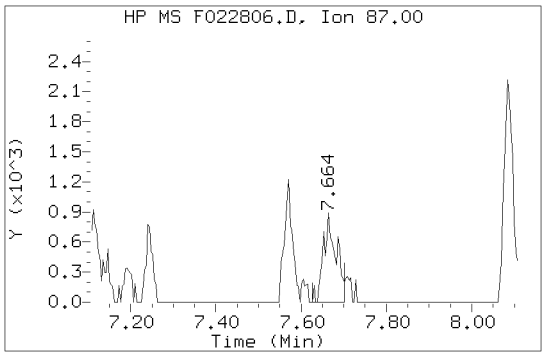
AFTER
MASS
56
AREA
10242
HEIGHT
2627
11-Mar-2024
13:57
ALSHS
Ser



BEFORE
MASS
87
AREA
2034
HEIGHT
894
28-Feb-2024
18:50
ALSHS
Server

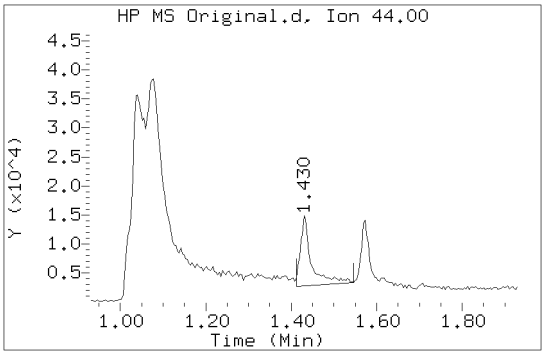


AFTER
MASS
87
AREA
1856
HEIGHT
894
11-Mar-2024
13:57
ALSHS
Ser



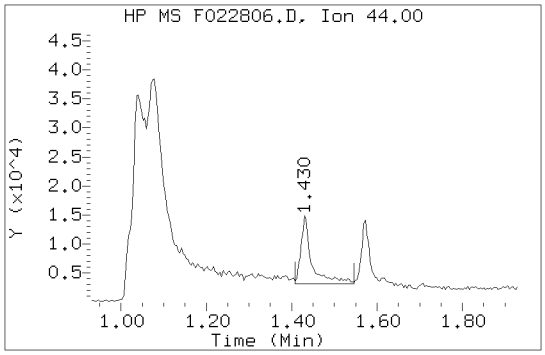
Acetaldehyde (75-07-0)

BEFORE
MASS
44
AREA
21977
HEIGHT
12080
28-Feb-2024
18:50
ALSHS
Server

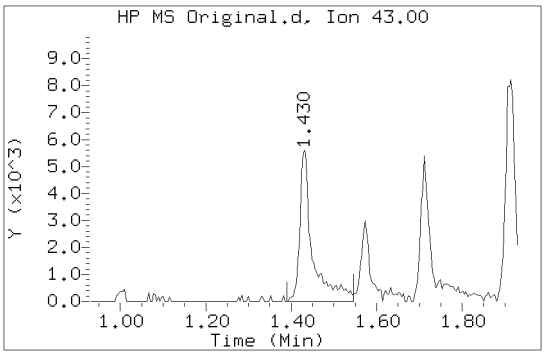


Reason Code:

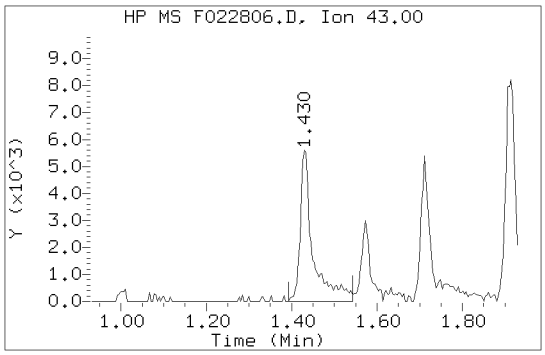
AFTER
MASS
44
AREA
21593
HEIGHT
11761
11-Mar-2024
13:57
ALSHS
Ser



BEFORE
MASS
43
AREA
11889
HEIGHT
5618
28-Feb-2024
18:50
ALSHS
Server



AFTER
MASS
43
AREA
11826
HEIGHT
5618
11-Mar-2024
13:57
ALSHS
Ser



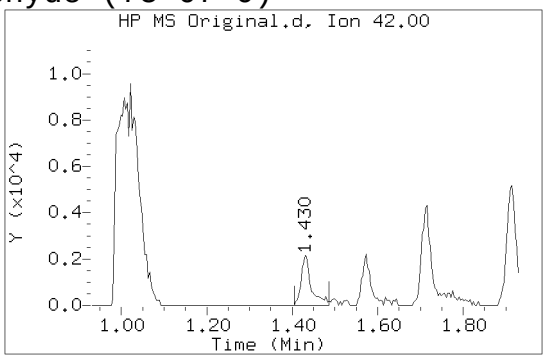
Data File : \\NAHSTWS005\Target\chem\voa10.i\G240228.b\F022806.D
Inj Date : 28-FEB-2024 18:33
InstruID : voa10.i
LabSampID : VSTD005

Acetaldehyde (75-07-0)

Reason Code:

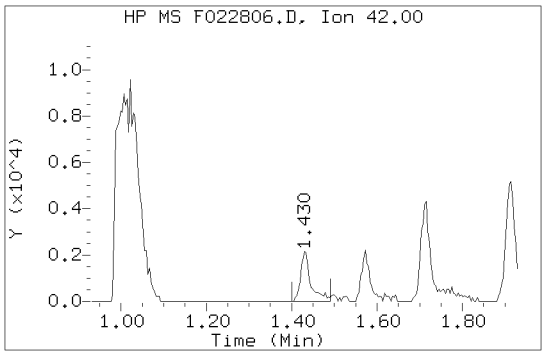
BEFORE

MASS
42
AREA
3618
HEIGHT
2165
28-Feb-2024
18:50
ALSHS
Server



AFTER

MASS
42
AREA
3652
HEIGHT
2165
11-Mar-2024
13:57
ALSHS
Ser



Data File: \\NAHSTWS005\Target\chem\voa10.i\G240228.b\F022807.D Page 1
Report Date: 11-Mar-2024 13:59

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa10.i\G240228.b\F022807.D
Lab Smp Id: VSTD020 Client Smp ID: VSTD020
Inj Date : 28-FEB-2024 18:54
Operator : FT Inst ID: voa10.i
Smp Info : VSTD020;VSTD020;1;6;;
Misc Info : V10;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa10.i\G240228.b\8260W.m
Meth Date : 11-Mar-2024 13:59 voa10.i Quant Type: ISTD
Cal Date : 28-FEB-2024 18:33 Cal File: F022806.D
Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 01_STD_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.695	4.695	(1.000)	236656	50.0000	
2 Dichlorodifluoromethane	85	1.152	1.152	(0.246)	34687	20.0000	16.98
3 Chloromethane	50	1.280	1.280	(0.273)	75980	20.0000	17.65
4 Propionitrile	54	4.155	4.155	(0.885)	48326	200.000	176.30(a)
5 Vinyl Chloride	62	1.355	1.355	(0.289)	48095	20.0000	17.12
6 Bromomethane	94	1.587	1.587	(0.338)	17708	20.0000	18.10
7 Chloroethane	64	1.662	1.662	(0.354)	28200	20.0000	16.93
8 Trichlorofluoromethane	101	1.853	1.853	(0.395)	47402	20.0000	17.07
9 Acrolein	56	3.165	3.165	(0.674)	25911	40.0000	36.45
10 Acetone	43	2.318	2.318	(0.494)	30825	40.0000	33.47
11 1,1-Dichloroethene	96	2.269	2.269	(0.483)	29483	20.0000	17.42(M)
12 Isobutyl Alcohol	43	5.163	5.163	(1.100)	122004	400.000	374.02
13 Acetonitrile	39	2.588	2.588	(0.551)	45664	200.000	154.65
14 Allyl Chloride	41	2.588	2.588	(0.551)	77202	20.0000	18.84
15 Iodomethane	142	2.397	2.397	(0.511)	36602	40.0000	33.13
16 Acrylonitrile	53	2.937	2.937	(0.626)	26262	40.0000	36.54
17 Methylene Chloride	84	2.704	2.704	(0.576)	36305	20.0000	17.96
18 Methyl tert-butyl ether	73	2.982	2.982	(0.635)	101522	20.0000	17.89
19 Carbon Disulfide	76	2.453	2.453	(0.523)	186946	40.0000	34.45
20 trans-1,2-Dichloroethene	96	2.967	2.967	(0.632)	35235	20.0000	17.60

21 Vinyl Acetate	43	3.480	3.480 (0.741)	170218	40.0000	35.38
22 1,1-Dichloroethane	63	3.398	3.398 (0.724)	68404	20.0000	16.72

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Report Date: 11-Mar-2024 13:59

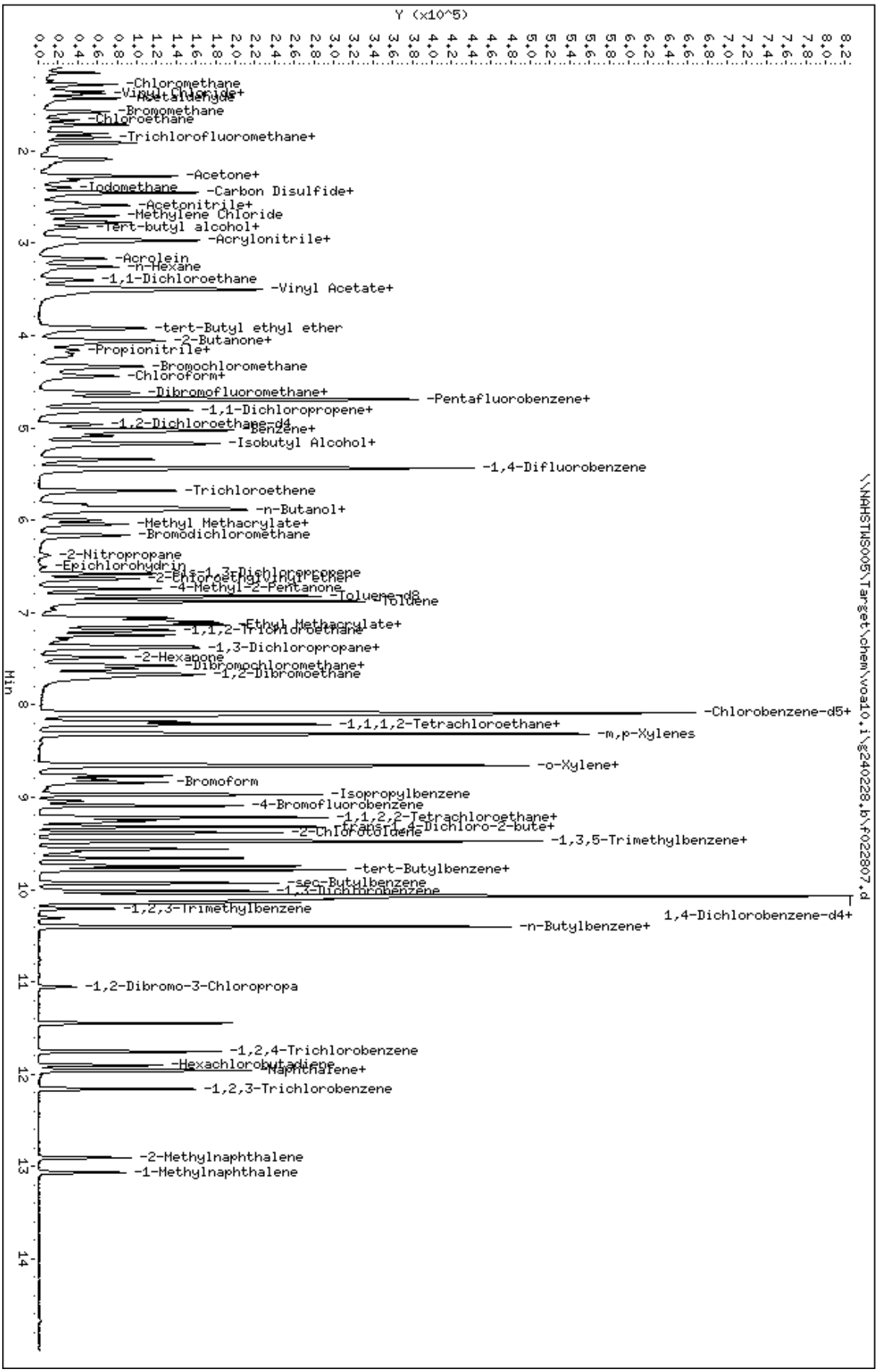
			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
	24	2-Butanone	43	4.099	4.099	(0.873)	29929	40.0000	32.09
	25	Methacrylonitrile	41	4.057	4.057	(0.864)	36376	20.0000	17.00
	26	2,2-Dichloropropane	77	4.057	4.057	(0.864)	49527	20.0000	17.76
	27	cis-1,2-Dichloroethene	96	4.061	4.061	(0.865)	38671	20.0000	17.53
	28	Chloroform	83	4.436	4.436	(0.945)	64614	20.0000	18.05
	29	Bromochloromethane	128	4.331	4.331	(0.923)	17571	20.0000	19.61
$	30	Dibromofluoromethane	113	4.616	4.616	(0.983)	33571	20.0000	18.24
	31	1,1,1-Trichloroethane	97	4.631	4.631	(0.986)	53954	20.0000	17.90
	32	1,1-Dichloropropene	75	4.807	4.807	(0.884)	52810	20.0000	17.27
	33	1,2-Dichloroethane	62	5.043	5.043	(0.928)	59608	20.0000	19.86(M)
	34	Carbon Tetrachloride	117	4.807	4.807	(0.884)	43933	20.0000	18.76(M)
$	35	1,2-Dichloroethane-d4	65	4.965	4.965	(1.057)	49531	20.0000	18.95
*	36	1,4-Difluorobenzene	114	5.437	5.437	(1.000)	348388	50.0000	
	37	Benzene	78	5.021	5.021	(0.923)	172954	20.0000	18.63
	38	Trichloroethene	130	5.681	5.681	(1.045)	39460	20.0000	18.97
	39	Bromodichloromethane	83	6.160	6.160	(1.133)	53179	20.0000	19.40
	40	Methyl Methacrylate	41	6.044	6.044	(1.287)	43264	20.0000	18.21
	42	1,2-Dichloropropane	63	5.891	5.891	(1.083)	47896	20.0000	19.13(M)
	43	2-Nitropropane	43	6.378	6.378	(1.358)	7399	20.0000	18.20(M)
	44	Dibromomethane	93	5.999	5.999	(1.103)	23120	20.0000	20.87
	45	4-Methyl-2-Pentanone	43	6.741	6.741	(0.834)	89773	40.0000	36.07
	46	cis-1,3-Dichloropropene	75	6.580	6.580	(1.210)	59894	20.0000	19.15
*	47	Chlorobenzene-d5	117	8.083	8.083	(1.000)	285588	50.0000	
$	48	Toluene-d8	98	6.820	6.820	(0.844)	151451	20.0000	19.46
	49	Ethyl Methacrylate	69	7.105	7.105	(1.307)	29535	20.0000	20.89
	50	Toluene	91	6.880	6.880	(0.851)	166741	20.0000	18.98
	51	trans-1,3-Dichloropropene	75	7.086	7.086	(1.303)	48978	20.0000	20.37
	52	2-Hexanone	43	7.484	7.484	(0.926)	59018	40.0000	38.44
	53	1,1,2-Trichloroethane	83	7.240	7.240	(0.896)	30161	20.0000	20.09
	54	1,3-Dichloropropane	76	7.386	7.386	(0.914)	66450	20.0000	20.16
	55	Dibromochloromethane	129	7.581	7.581	(0.938)	36514	20.0000	20.63
	56	Tetrachloroethene	164	7.364	7.364	(0.911)	28608	20.0000	18.61
	57	1,2-Dibromoethane	107	7.671	7.671	(0.949)	32930	20.0000	19.95
	58	1-Chlorohexane	55	8.106	8.106	(1.491)	40062	20.0000	18.80
	59	Chlorobenzene	112	8.110	8.110	(1.003)	97408	20.0000	18.76
	60	1,1,1,2-Tetrachloroethane	131	8.185	8.185	(1.013)	34922	20.0000	19.44
	61	Ethylbenzene	106	8.215	8.215	(1.016)	49843	20.0000	19.00
	62	m,p-Xylenes	106	8.316	8.316	(1.029)	124873	40.0000	37.09
	63	o-Xylene	106	8.653	8.653	(1.070)	61204	20.0000	18.84
	64	Styrene	104	8.665	8.665	(1.072)	107291	20.0000	20.46
	66	Bromoform	173	8.811	8.811	(1.090)	24317	20.0000	20.28
	67	Isopropylbenzene	105	8.972	8.972	(1.110)	151327	20.0000	18.50
	68	1,1,2,2-Tetrachloroethane	83	9.219	9.219	(0.916)	46896	20.0000	20.10
$	69	4-Bromofluorobenzene	95	9.092	9.092	(1.125)	55593	20.0000	19.32
*	70	1,4-Dichlorobenzene-d4	152	10.070	10.070	(1.000)	153909	50.0000	
	71	1,2,3-Trichloropropane	75	9.253	9.253	(0.919)	49713	20.0000	17.73
	72	trans-1,4-Dichloro-2-butene	53	9.272	9.272	(1.147)	11603	20.0000	20.10
	73	n-Propylbenzene	91	9.321	9.321	(0.926)	177698	20.0000	18.48
	74	Bromobenzene	156	9.216	9.216	(0.915)	41984	20.0000	18.71
	75	1,3,5-Trimethylbenzene	105	9.474	9.474	(0.941)	124878	20.0000	18.74
	76	2-Chlorotoluene	91	9.384	9.384	(0.932)	113914	20.0000	18.78
	77	4-Chlorotoluene	91	9.478	9.478	(0.941)	131791	20.0000	18.91

78	tert-Butylbenzene	119	9.744	9.744 (0.968)	98844	20.0000	17.80
79	1,2,4-Trimethylbenzene	105	9.785	9.785 (0.972)	129393	20.0000	19.13

						AMOUNTS	
		QUANT SIG				CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
	81 sec-Butylbenzene	105	9.932	9.932	(0.986)	135466	20.0000	17.82
	82 p-Isopropyltoluene	119	10.055	10.055	(0.999)	118261	20.0000	18.22
	83 1,3-Dichlorobenzene	146	10.018	10.018	(0.995)	75296	20.0000	18.48
	84 1,4-Dichlorobenzene	146	10.089	10.089	(1.002)	79998	20.0000	18.41
	87 n-Butylbenzene	91	10.400	10.400	(1.033)	113402	20.0000	17.69
	88 1,2-Dichlorobenzene	146	10.404	10.404	(1.033)	75247	20.0000	18.64
	89 1,2-Dibromo-3-Chloropropane	155	11.056	11.056	(1.098)	6396	20.0000	19.34
	90 1,2,4-Trichlorobenzene	180	11.753	11.753	(1.167)	46255	20.0000	18.27
	91 Hexachlorobutadiene	225	11.907	11.907	(1.182)	20042	20.0000	17.41
	92 Naphthalene	128	11.960	11.960	(1.188)	117308	20.0000	18.18
	93 1,2,3-Trichlorobenzene	180	12.162	12.162	(1.208)	40633	20.0000	18.28
	135 1,4-Dioxane	88	6.044	6.044	(1.287)	5652	400.000	393.91(a)
	130 Ethyl Acetate	43	4.192	4.192	(0.893)	39874	20.0000	16.22
	136 n-Hexane	57	3.259	3.259	(0.694)	46377	20.0000	18.79
	138 Freon TF	101	2.281	2.281	(0.486)	31856	20.0000	18.47
	139 Diethyl ether	59	2.828	2.828	(0.602)	53415	20.0000	20.39(M)
	141 Cyclohexane	56	4.687	4.687	(0.998)	66247	20.0000	17.56
	142 Tetrahydrofuran	42	4.402	4.402	(0.938)	12682	40.0000	38.90
	146 Methyl Acetate	43	2.618	2.618	(0.558)	51133	20.0000	17.76
	147 Methylcyclohexane	55	5.864	5.864	(1.079)	71481	20.0000	21.04(M)
	148 Tert-butyl alcohol	59	2.828	2.828	(0.602)	45305	400.000	311.03
	149 Isopropyl alcohol	45	2.453	2.453	(0.523)	32466	400.000	350.39(T)
	151 4-Methyl-2-pentanol	45	7.105	7.105	(1.307)	217756	400.000	417.66(M)
	156 Diisopropyl ether	45	3.503	3.503	(0.746)	161553	20.0000	17.53(T)
	158 Dichlorofluoromethane	67	1.812	1.812	(0.386)	57417	20.0000	17.28
	166 1,2,3-Trimethylbenzene	105	10.141	10.141	(1.007)	120526	20.0000	18.90
	160 2-Methylnaphthalene	142	12.904	12.904	(1.281)	36202	20.0000	15.97
	180 1-Methylnaphthalene	142	13.065	13.065	(1.297)	35257	20.0000	16.81
	174 tert-Amyl methyl ether	73	5.175	5.175	(1.102)	108009	20.0000	18.10
	175 tert-Butyl ethyl ether	59	3.923	3.923	(0.836)	121063	20.0000	17.77
	132 n-Butanol	56	5.861	5.861	(1.248)	21809	400.000	393.75(a)
	140 1,3-Butadiene	54	1.381	1.381	(0.294)	16460	20.0000	18.83(M)
	189 n-Butyl acetate	43	7.611	7.611	(0.942)	64886	20.0000	17.82(M)
	86 Benzyl Chloride	91	10.400	10.400	(1.287)	113402	20.0000	18.02
	182 Epichlorohydrin	57	6.502	6.502	(1.196)	4443	80.0000	64.57
	150 Allyl alcohol	57	3.488	3.488	(0.743)	7790	400.000	348.54
	162 Butyl acrylate	55	8.642	8.642	(1.069)	78111	20.0000	17.59
	194 Acetaldehyde	44	1.430	1.430	(0.305)	72455	80.0000	74.84
	131 Methyl Acrylate	55	4.222	4.222	(0.899)	34896	20.0000	17.94
	133 Ethyl Acrylate	55	5.827	5.827	(1.241)	49206	20.0000	19.42(M)
M	94 1,2-Dichloroethylene (total)	96				73906	40.0000	(a)
M	95 Xylenes (total)	106				186077	60.0000	(a)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Sample Info: VSTD020;VSTD020;1;6;;
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Column phase: DB624

Instrument: voa10.i
Operator: FT
Column diameter: 0.18

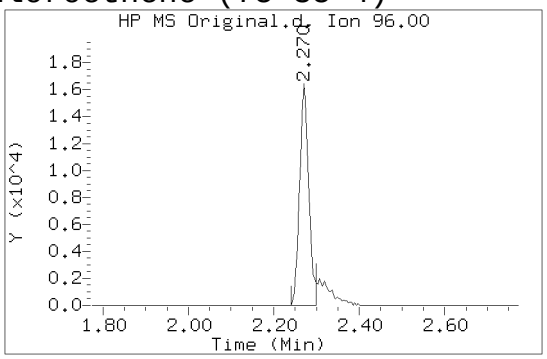
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InstruID : voa10.i
LabSampID : VSTD020

1,1-Dichloroethene (75-35-4)

Reason Code:

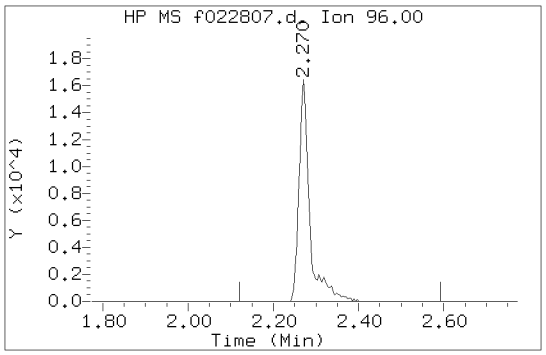
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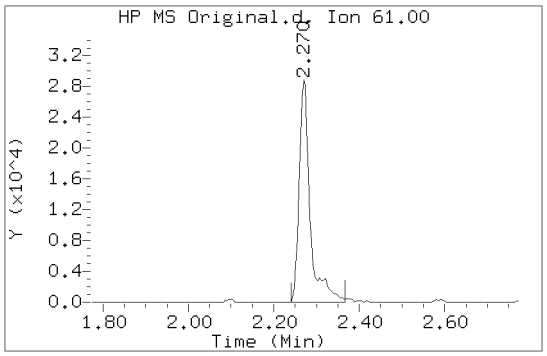
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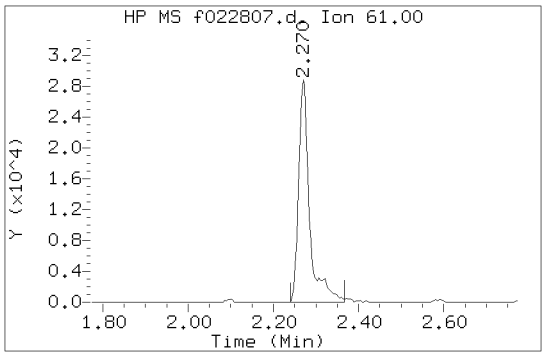
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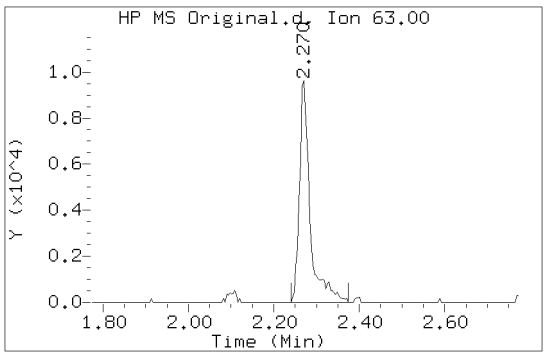
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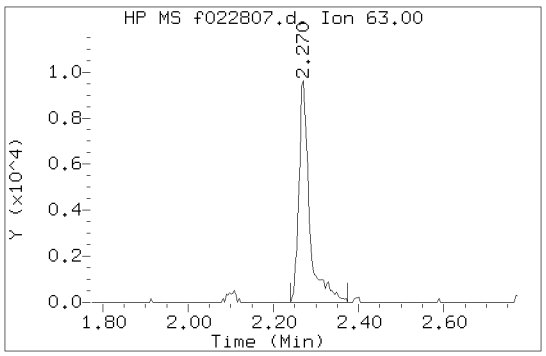
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AFTER

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Ser

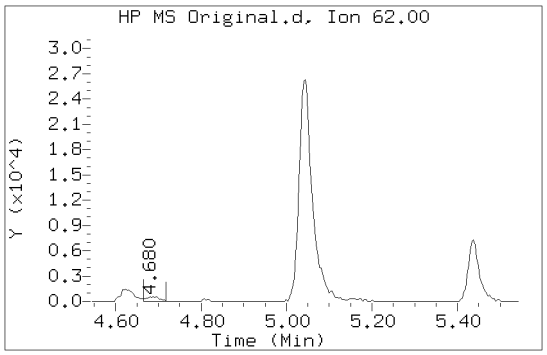


1,2-Dichloroethane (107-06-2)

Reason Code:

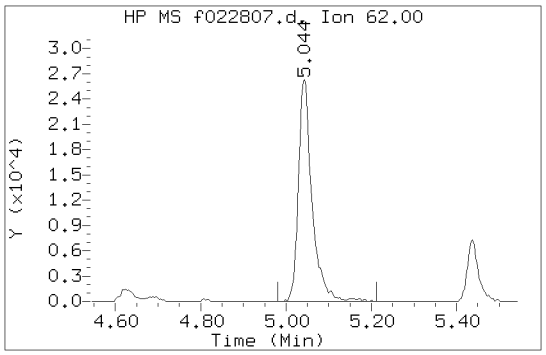
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AFTER

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18:39
ALSHS
Ser



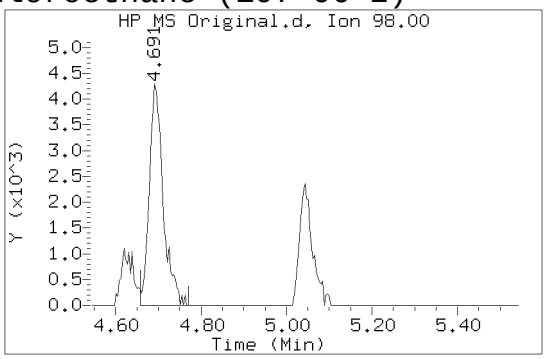
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LabSampID : VSTD020

1,2-Dichloroethane (107-06-2)

Reason Code:

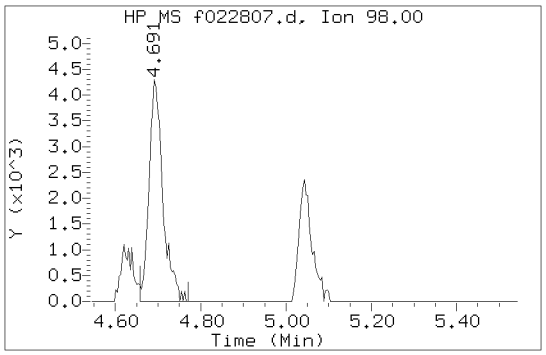
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AFTER

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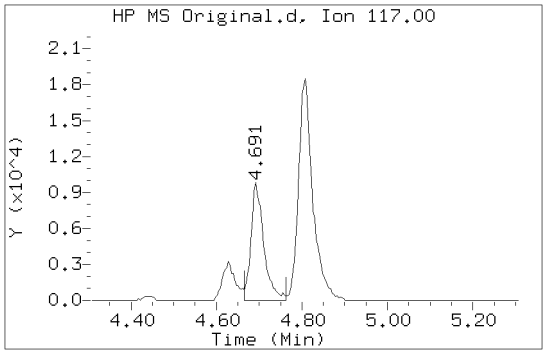


Carbon Tetrachloride (56-23-5)

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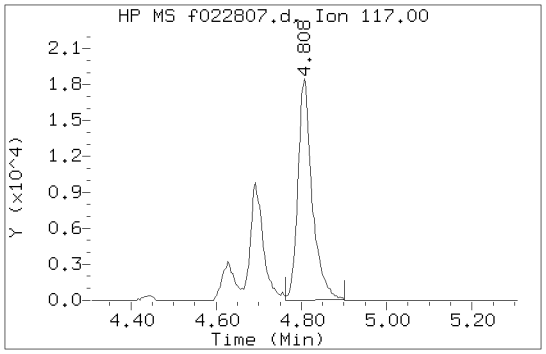
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ALSHS
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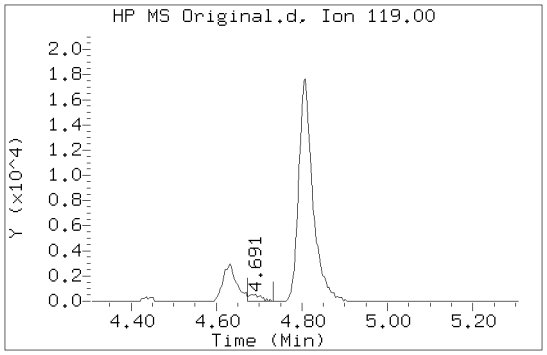
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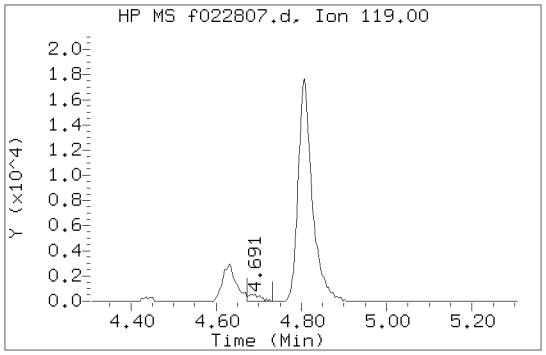
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AFTER

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ALSHS
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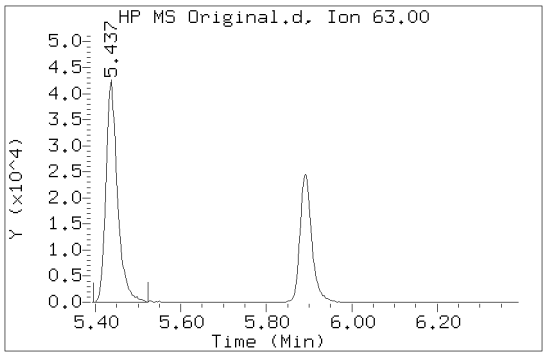


1,2-Dichloropropane (78-87-5)

Reason Code:

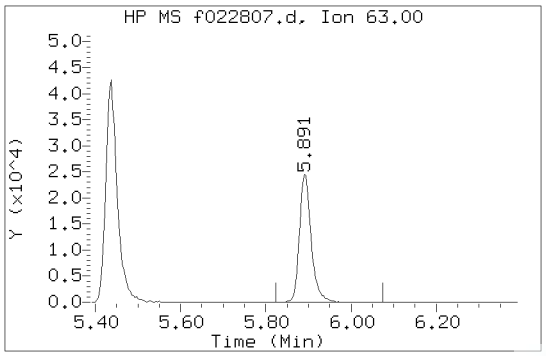
BEFORE

MASS
63
AREA
79745
HEIGHT
42640
28-Feb-2024
19:11
ALSHS
Server



AFTER

MASS
63
AREA
47896
HEIGHT
24592
11-Mar-2024
18:39
ALSHS
Ser

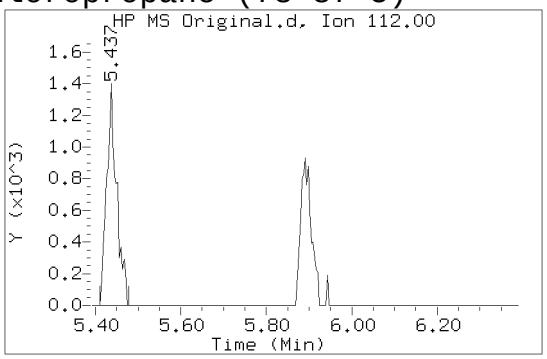


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Inj Date : 28-FEB-2024 18:54
InstruID : voa10.i
LabSampID : VSTD020

1,2-Dichloropropane (78-87-5)

BEFORE

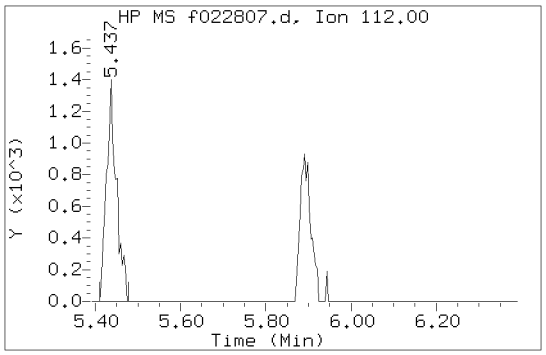
MASS
112
AREA
2254
HEIGHT
1400
28-Feb-2024
19:11
ALSHS
Server



AFTER

MASS
112
AREA
2254
HEIGHT
1400
11-Mar-2024
18:39
ALSHS
Ser

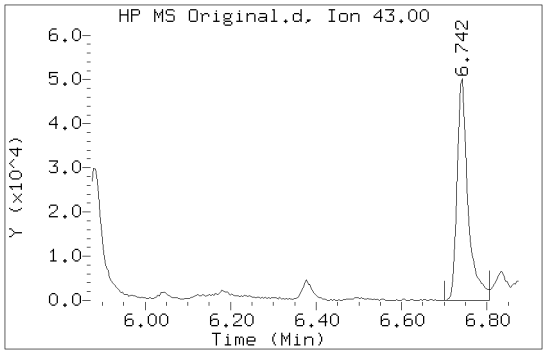
Reason Code:



2-Nitropropane (79-46-9)

BEFORE

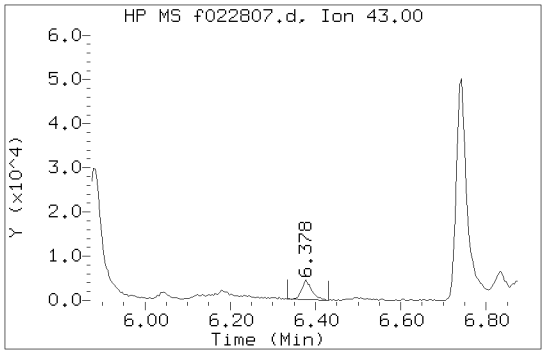
MASS
43
AREA
89773
HEIGHT
50184
28-Feb-2024
19:11
ALSHS
Server



AFTER

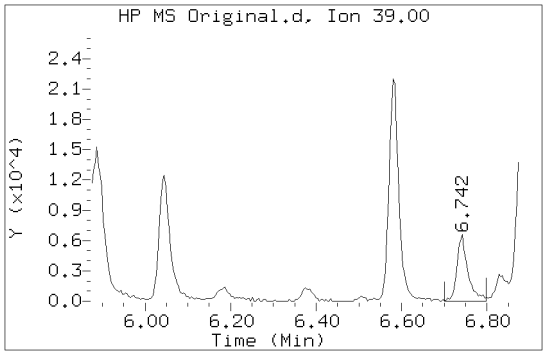
MASS
43
AREA
7399
HEIGHT
4489
11-Mar-2024
18:39
ALSHS
Ser

Reason Code:



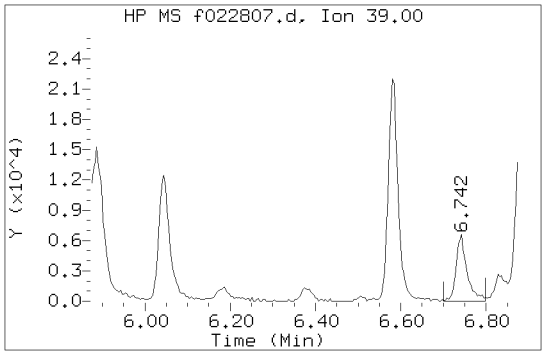
BEFORE

MASS
39
AREA
11704
HEIGHT
6600
28-Feb-2024
19:11
ALSHS
Server



AFTER

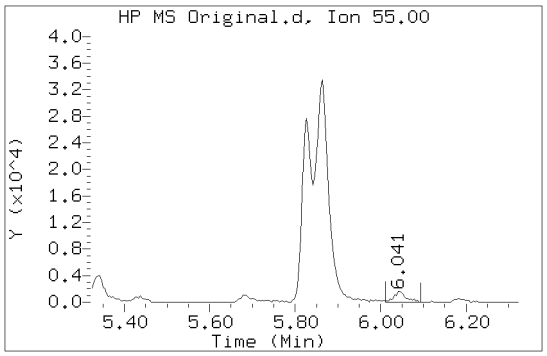
MASS
39
AREA
11704
HEIGHT
6600
11-Mar-2024
18:39
ALSHS
Ser



Ethyl Acrylate (140-88-5)

BEFORE

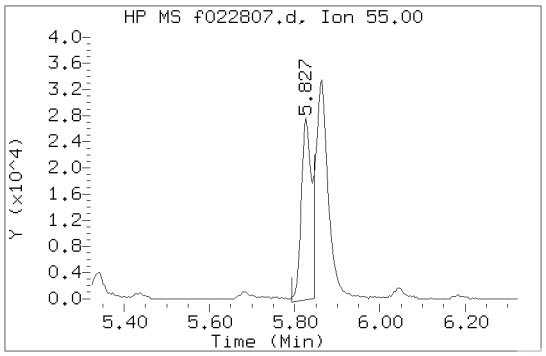
MASS
55
AREA
3185
HEIGHT
1655
28-Feb-2024
19:11
ALSHS
Server



AFTER

MASS
55
AREA
49206
HEIGHT
27881
11-Mar-2024
18:39
ALSHS
Ser

Reason Code:



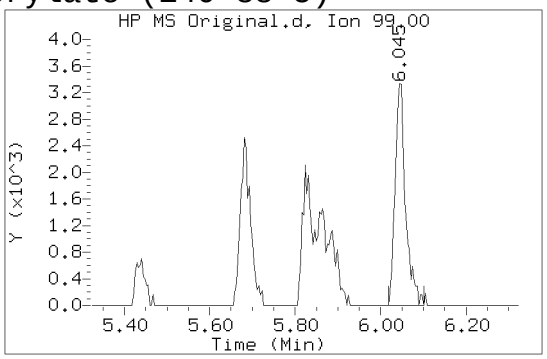
Data File : \\nahstws005\target\chem\voa10.i\g240228.b\f022807.d
Inj Date : 28-FEB-2024 18:54
InstruID : voa10.i
LabSampID : VSTD020

Ethyl Acrylate (140-88-5)

Reason Code:

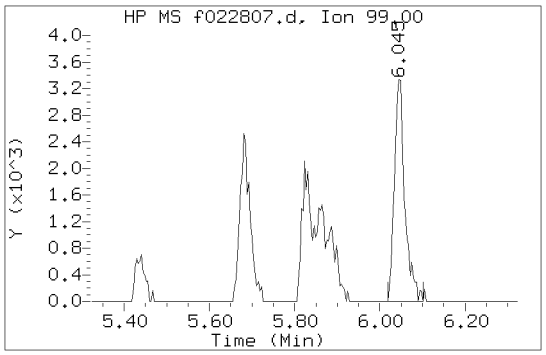
BEFORE

MASS
99
AREA
5670
HEIGHT
3334
28-Feb-2024
19:11
ALSHS
Server



AFTER

MASS
99
AREA
5670
HEIGHT
3334
11-Mar-2024
18:39
ALSHS
Ser

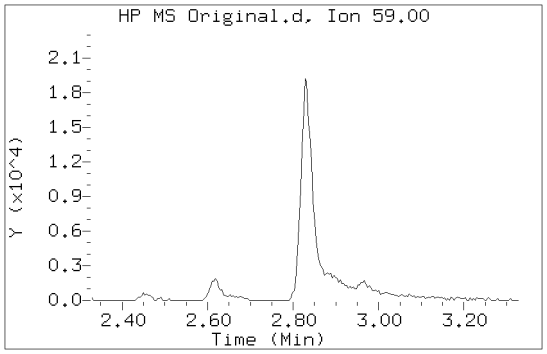


Diethyl ether (60-29-7)

Reason Code:

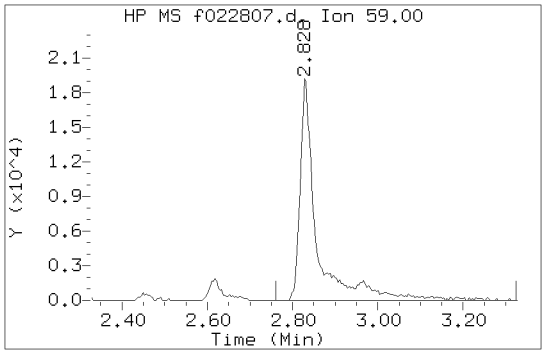
BEFORE

MASS
59
AREA
0
HEIGHT
0
28-Feb-2024
19:11
ALSHS
Server



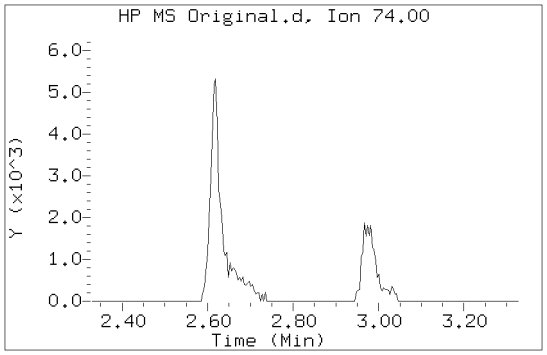
AFTER

MASS
59
AREA
53415
HEIGHT
19200
11-Mar-2024
18:39
ALSHS
Ser



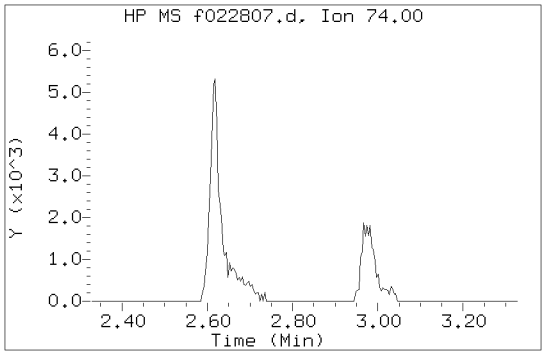
BEFORE

MASS
74
AREA
0
HEIGHT
0
28-Feb-2024
19:11
ALSHS
Server



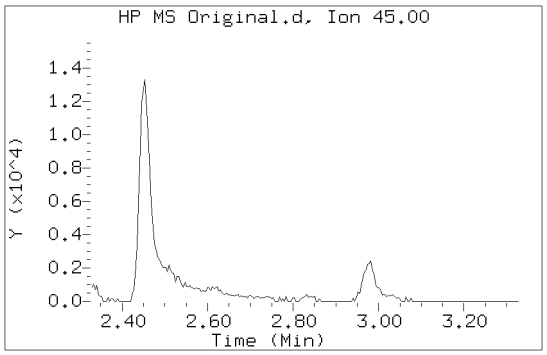
AFTER

MASS
74
AREA
0
HEIGHT
0
11-Mar-2024
18:39
ALSHS
Ser



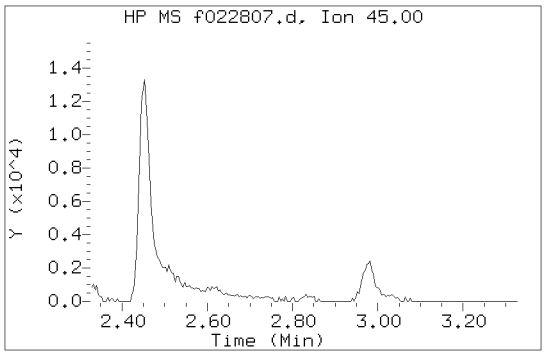
BEFORE

MASS
45
AREA
0
HEIGHT
0
28-Feb-2024
19:11
ALSHS
Server



AFTER

MASS
45
AREA
0
HEIGHT
0
11-Mar-2024
18:39
ALSHS
Ser



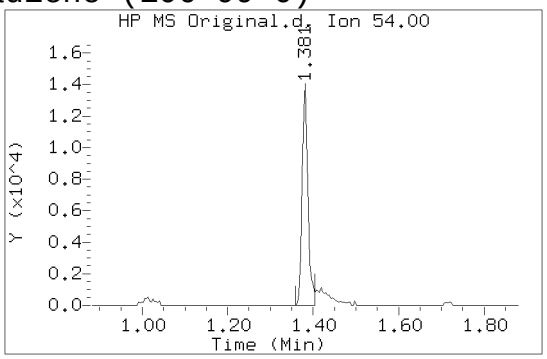
Data File : \\nahstws005\target\chem\voa10.i\g240228.b\f022807.d
Inj Date : 28-FEB-2024 18:54
InstruID : voa10.i
LabSampID : VSTD020

1,3-Butadiene (106-99-0)

Reason Code:

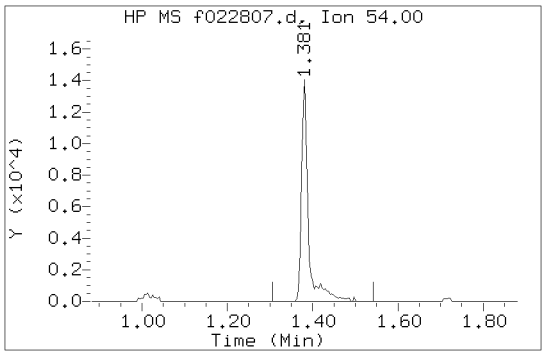
BEFORE

MASS
54
AREA
13917
HEIGHT
14052
28-Feb-2024
19:11
ALSHS
Server



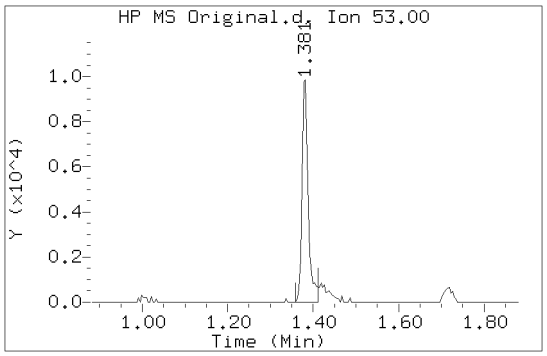
AFTER

MASS
54
AREA
16460
HEIGHT
14052
11-Mar-2024
18:39
ALSHS
Ser



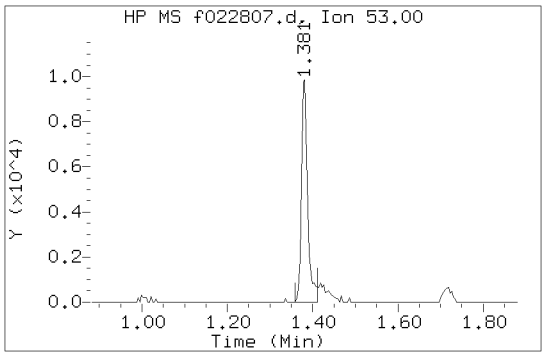
BEFORE

MASS
53
AREA
10317
HEIGHT
9856
28-Feb-2024
19:11
ALSHS
Server



AFTER

MASS
53
AREA
10317
HEIGHT
9856
11-Mar-2024
18:39
ALSHS
Ser

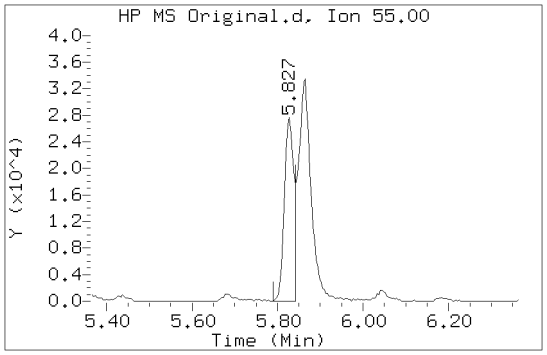


Methylcyclohexane (108-87-2)

Reason Code:

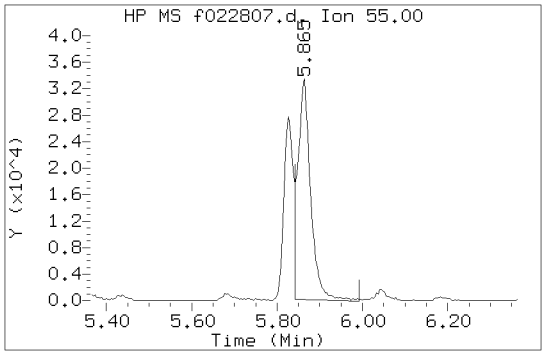
BEFORE

MASS
55
AREA
44094
HEIGHT
27720
28-Feb-2024
19:11
ALSHS
Server



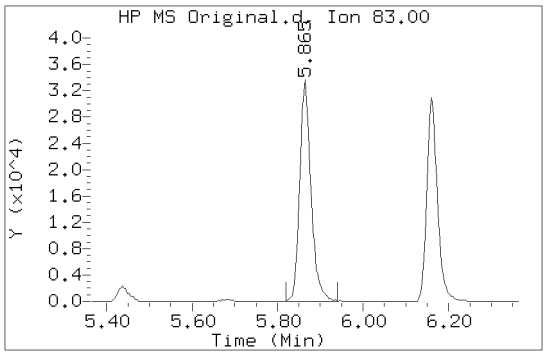
AFTER

MASS
55
AREA
71481
HEIGHT
33314
11-Mar-2024
18:39
ALSHS
Ser



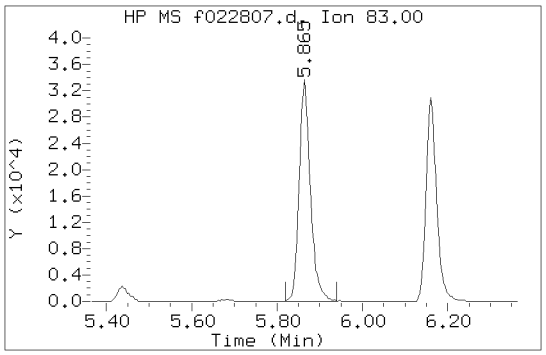
BEFORE

MASS
83
AREA
63331
HEIGHT
33672
28-Feb-2024
19:11
ALSHS
Server



AFTER

MASS
83
AREA
63331
HEIGHT
33672
11-Mar-2024
18:39
ALSHS
Ser



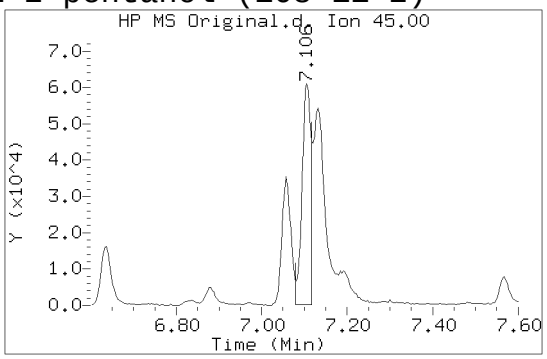
Data File : \\nahstws005\target\chem\voa10.i\g240228.b\f022807.d
Inj Date : 28-FEB-2024 18:54
InstruID : voa10.i
LabSampID : VSTD020

4-Methyl-2-pentanol (108-11-2)

Reason Code:

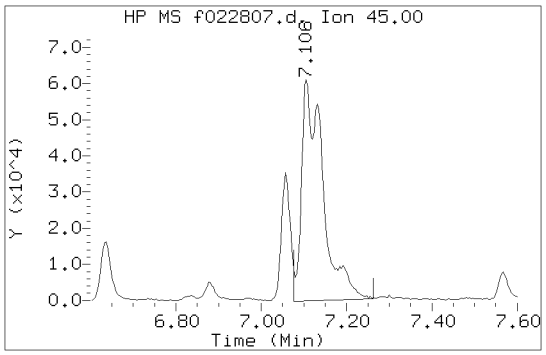
BEFORE

MASS
45
AREA
90301
HEIGHT
60882
28-Feb-2024
19:11
ALSHS
Server



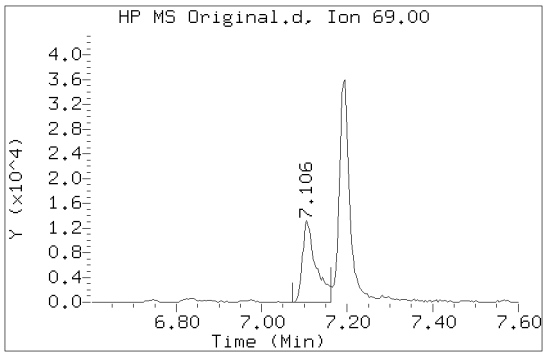
AFTER

MASS
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AREA
217756
HEIGHT
61173
11-Mar-2024
18:39
ALSHS
Ser



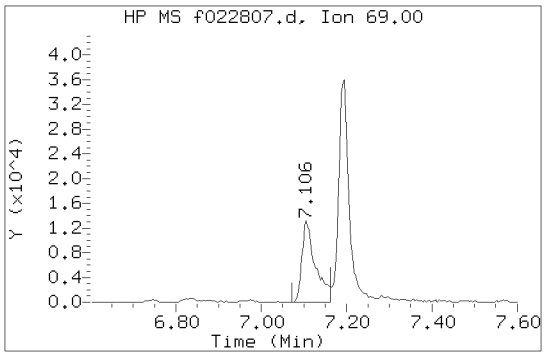
BEFORE

MASS
69
AREA
29535
HEIGHT
13195
28-Feb-2024
19:11
ALSHS
Server



AFTER

MASS
69
AREA
29535
HEIGHT
13195
11-Mar-2024
18:39
ALSHS
Ser

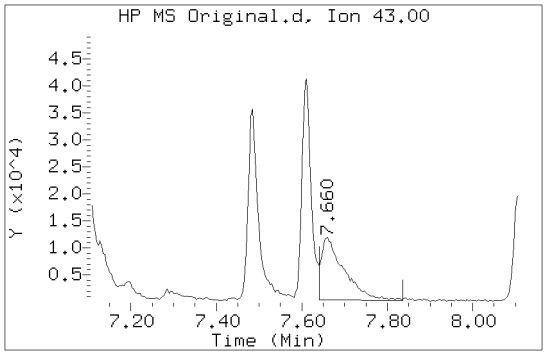


n-Butyl acetate (123-86-4)

Reason Code:

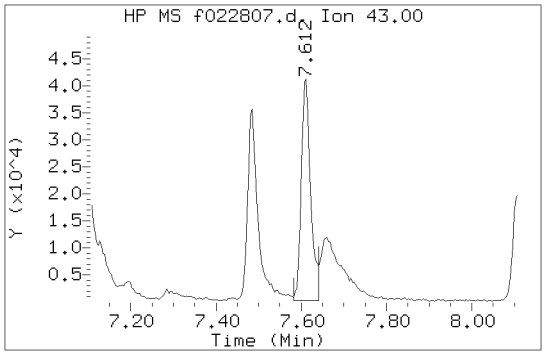
BEFORE

MASS
43
AREA
43300
HEIGHT
11614
28-Feb-2024
19:11
ALSHS
Server



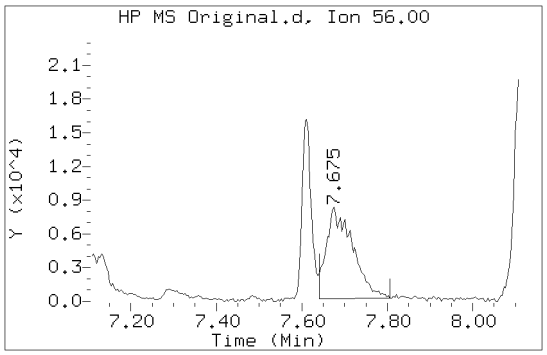
AFTER

MASS
43
AREA
64886
HEIGHT
41020
11-Mar-2024
18:39
ALSHS
Ser



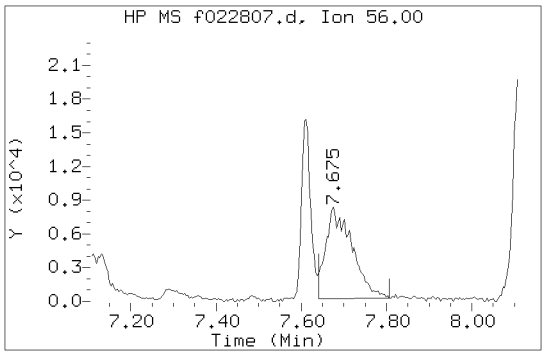
BEFORE

MASS
56
AREA
34837
HEIGHT
8115
28-Feb-2024
19:11
ALSHS
Server



AFTER

MASS
56
AREA
34837
HEIGHT
8115
11-Mar-2024
18:39
ALSHS
Ser



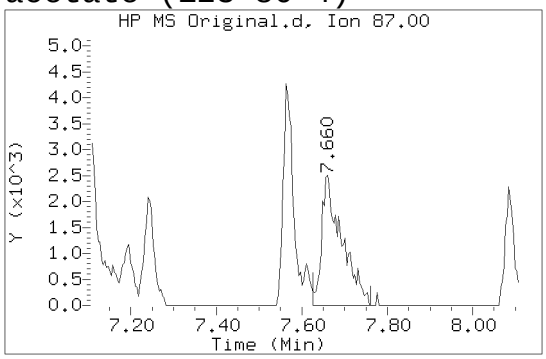
Data File : \\nahstws005\target\chem\voa10.i\g240228.b\f022807.d
Inj Date : 28-FEB-2024 18:54
InstruID : voa10.i
LabSampID : VSTD020

n-Butyl acetate (123-86-4)

Reason Code:

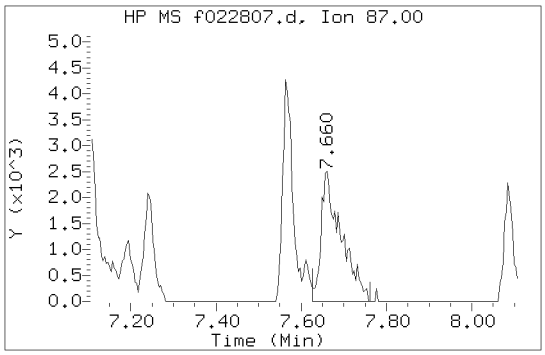
BEFORE

MASS
87
AREA
8202
HEIGHT
2509
28-Feb-2024
19:11
ALSHS
Server



AFTER

MASS
87
AREA
8202
HEIGHT
2509
11-Mar-2024
18:39
ALSHS
Ser



Data File: \\NAHSTWS005\Target\chem\voa10.i\G240228.b\F022808.D Page 1
Report Date: 11-Mar-2024 13:59

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa10.i\G240228.b\F022808.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 28-FEB-2024 19:15
Operator : FT Inst ID: voa10.i
Smp Info : VSTD050;VSTD050;1;7;;
Misc Info : V10;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa10.i\G240228.b\8260W.m
Meth Date : 11-Mar-2024 13:59 voa10.i Quant Type: ISTD
Cal Date : 28-FEB-2024 18:54 Cal File: F022807.D
Als bottle: 8 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 01_STD_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.691	4.691	(1.000)	222466	50.0000	
2	Dichlorodifluoromethane	85	1.152	1.152	(0.246)	92834	50.0000	48.35
3	Chloromethane	50	1.280	1.280	(0.273)	190858	50.0000	47.18
4	Propionitrile	54	4.151	4.151	(0.885)	124973	500.000	485.02
5	Vinyl Chloride	62	1.355	1.355	(0.289)	128132	50.0000	48.54
6	Bromomethane	94	1.587	1.587	(0.338)	46974	50.0000	53.07
7	Chloroethane	64	1.662	1.662	(0.354)	77231	50.0000	49.34
8	Trichlorofluoromethane	101	1.857	1.857	(0.396)	131655	50.0000	50.43
9	Acrolein	56	3.165	3.165	(0.675)	73953	100.000	110.68
10	Acetone	43	2.314	2.314	(0.493)	83226	100.000	99.27
11	1,1-Dichloroethene	96	2.269	2.269	(0.484)	80831	50.0000	50.82
12	Isobutyl Alcohol	43	5.160	5.160	(1.100)	341022	1000.00	1112.15
13	Acetonitrile	39	2.588	2.588	(0.552)	127537	500.000	458.64
14	Allyl Chloride	41	2.588	2.588	(0.552)	196918	50.0000	51.50
15	Iodomethane	142	2.397	2.397	(0.511)	110325	100.000	95.75
16	Acrylonitrile	53	2.933	2.933	(0.625)	68671	100.000	107.60
17	Methylene Chloride	84	2.704	2.704	(0.577)	94675	50.0000	50.57
18	Methyl tert-butyl ether	73	2.974	2.974	(0.634)	280983	50.0000	52.67
19	Carbon Disulfide	76	2.453	2.453	(0.523)	527419	100.000	100.42
20	trans-1,2-Dichloroethene	96	2.963	2.963	(0.632)	93101	50.0000	49.48

21 Vinyl Acetate	43	3.473	3.473 (0.740)	472492	100.000	104.47
22 1,1-Dichloroethane	63	3.398	3.398 (0.724)	186804	50.0000	48.58

Data File: \\NAHSTWS005\Target\chem\voa10.i\G240228.b\F022808.D Page 2
Report Date: 11-Mar-2024 13:59

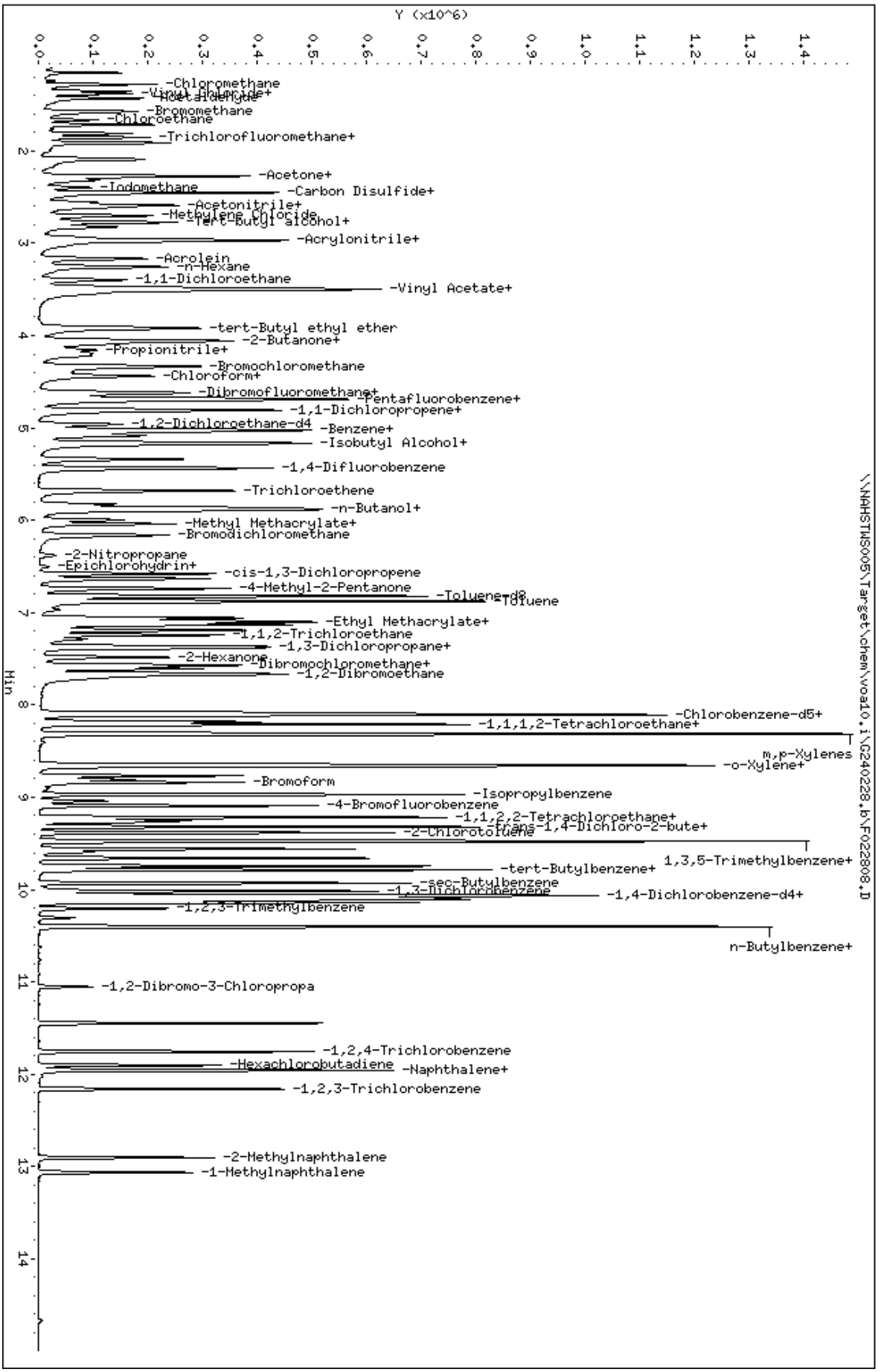
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	24 2-Butanone	43	4.095	4.095	(0.873)	86388	100.000	99.01
	25 Methacrylonitrile	41	4.054	4.054	(0.864)	107167	50.0000	56.22
	26 2,2-Dichloropropane	77	4.054	4.054	(0.864)	138711	50.0000	52.94
	27 cis-1,2-Dichloroethene	96	4.061	4.061	(0.866)	101058	50.0000	48.73
	28 Chloroform	83	4.436	4.436	(0.946)	171133	50.0000	52.45
	29 Bromochloromethane	128	4.331	4.331	(0.923)	43582	50.0000	51.74
$	30 Dibromofluoromethane	113	4.612	4.612	(0.983)	82509	50.0000	49.07
	31 1,1,1-Trichloroethane	97	4.627	4.627	(0.986)	147295	50.0000	52.00
	32 1,1-Dichloropropene	75	4.811	4.811	(0.885)	144966	50.0000	48.38
	33 1,2-Dichloroethane	62	5.043	5.043	(0.928)	146609	50.0000	49.84(M)
	34 Carbon Tetrachloride	117	4.807	4.807	(0.884)	118916	50.0000	52.89(M)
$	35 1,2-Dichloroethane-d4	65	4.961	4.961	(1.058)	116575	50.0000	49.76
*	36 1,4-Difluorobenzene	114	5.437	5.437	(1.000)	341450	50.0000	
	37 Benzene	78	5.021	5.021	(0.923)	433789	50.0000	47.68
	38 Trichloroethene	130	5.681	5.681	(1.045)	100038	50.0000	49.08
	39 Bromodichloromethane	83	6.160	6.160	(1.133)	136194	50.0000	50.70
	40 Methyl Methacrylate	41	6.041	6.041	(1.288)	113148	50.0000	50.66
	42 1,2-Dichloropropane	63	5.891	5.891	(1.083)	120236	50.0000	49.00(M)
	43 2-Nitropropane	43	6.374	6.374	(1.359)	18388	50.0000	47.18(M)
	44 Dibromomethane	93	5.996	5.996	(1.103)	56821	50.0000	52.34
	45 4-Methyl-2-Pentanone	43	6.738	6.738	(0.834)	239766	100.000	97.80
	46 cis-1,3-Dichloropropene	75	6.580	6.580	(1.210)	162492	50.0000	53.01
*	47 Chlorobenzene-d5	117	8.084	8.084	(1.000)	278771	50.0000	
$	48 Toluene-d8	98	6.820	6.820	(0.844)	356043	50.0000	49.30
	49 Ethyl Methacrylate	69	7.101	7.101	(1.306)	69665	50.0000	50.73
	50 Toluene	91	6.880	6.880	(0.851)	420031	50.0000	49.00
	51 trans-1,3-Dichloropropene	75	7.086	7.086	(1.303)	129153	50.0000	54.82
	52 2-Hexanone	43	7.484	7.484	(0.926)	147629	100.000	98.51
	53 1,1,2-Trichloroethane	83	7.240	7.240	(0.896)	76092	50.0000	51.92
	54 1,3-Dichloropropane	76	7.386	7.386	(0.914)	162112	50.0000	50.40
	55 Dibromochloromethane	129	7.581	7.581	(0.938)	93443	50.0000	54.09
	56 Tetrachloroethene	164	7.368	7.368	(0.911)	75946	50.0000	50.63
	57 1,2-Dibromoethane	107	7.671	7.671	(0.949)	83007	50.0000	51.52
	58 1-Chlorohexane	55	8.106	8.106	(1.491)	104453	50.0000	51.34
	59 Chlorobenzene	112	8.110	8.110	(1.003)	247654	50.0000	48.86
	60 1,1,1,2-Tetrachloroethane	131	8.185	8.185	(1.013)	90001	50.0000	51.33
	61 Ethylbenzene	106	8.211	8.211	(1.016)	132333	50.0000	51.68
	62 m,p-Xylenes	106	8.316	8.316	(1.029)	328581	100.000	99.98
	63 o-Xylene	106	8.653	8.653	(1.070)	160187	50.0000	50.52
	64 Styrene	104	8.665	8.665	(1.072)	279492	50.0000	54.60
	66 Bromoform	173	8.811	8.811	(1.090)	62773	50.0000	53.64
	67 Isopropylbenzene	105	8.972	8.972	(1.110)	408405	50.0000	51.17
	68 1,1,2,2-Tetrachloroethane	83	9.219	9.219	(0.916)	117223	50.0000	51.01
$	69 4-Bromofluorobenzene	95	9.092	9.092	(1.125)	130190	50.0000	50.17
*	70 1,4-Dichlorobenzene-d4	152	10.070	10.070	(1.000)	151620	50.0000	
	71 1,2,3-Trichloropropane	75	9.253	9.253	(0.919)	125666	50.0000	47.97
	72 trans-1,4-Dichloro-2-butene	53	9.272	9.272	(1.147)	29833	50.0000	52.96
	73 n-Propylbenzene	91	9.321	9.321	(0.926)	487001	50.0000	51.43
	74 Bromobenzene	156	9.216	9.216	(0.915)	106464	50.0000	48.18
	75 1,3,5-Trimethylbenzene	105	9.471	9.471	(0.940)	337983	50.0000	51.50
	76 2-Chlorotoluene	91	9.384	9.384	(0.932)	295730	50.0000	49.50
	77 4-Chlorotoluene	91	9.478	9.478	(0.941)	344073	50.0000	50.11

78	tert-Butylbenzene	119	9.744	9.744 (0.968)	269954	50.0000	49.35
79	1,2,4-Trimethylbenzene	105	9.785	9.785 (0.972)	346800	50.0000	52.05

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
81 sec-Butylbenzene	105	9.932	9.932	(0.986)	379565	50.0000	50.68
82 p-Isopropyltoluene	119	10.055	10.055	(0.999)	339510	50.0000	53.10
83 1,3-Dichlorobenzene	146	10.014	10.014	(0.994)	197132	50.0000	49.12
84 1,4-Dichlorobenzene	146	10.093	10.093	(1.002)	205768	50.0000	48.07
87 n-Butylbenzene	91	10.400	10.400	(1.033)	325704	50.0000	51.57
88 1,2-Dichlorobenzene	146	10.404	10.404	(1.033)	196458	50.0000	49.40
89 1,2-Dibromo-3-Chloropropane	155	11.056	11.056	(1.098)	16747	50.0000	50.26
90 1,2,4-Trichlorobenzene	180	11.753	11.753	(1.167)	127166	50.0000	50.67
91 Hexachlorobutadiene	225	11.907	11.907	(1.182)	54941	50.0000	46.93
92 Naphthalene	128	11.956	11.956	(1.187)	313821	50.0000	49.66
93 1,2,3-Trichlorobenzene	180	12.162	12.162	(1.208)	110919	50.0000	49.38
135 1,4-Dioxane	88	6.041	6.041	(1.288)	13938	1000.00	1060.61(M)
130 Ethyl Acetate	43	4.189	4.189	(0.893)	116384	50.0000	50.38
136 n-Hexane	57	3.259	3.259	(0.695)	130463	50.0000	56.23
138 Freon TF	101	2.277	2.277	(0.485)	85504	50.0000	52.75
139 Diethyl ether	59	2.824	2.824	(0.602)	123733	50.0000	50.46(M)
141 Cyclohexane	56	4.684	4.684	(0.998)	179183	50.0000	53.53
142 Tetrahydrofuran	42	4.399	4.399	(0.938)	33078	100.000	107.95
146 Methyl Acetate	43	2.614	2.614	(0.557)	139514	50.0000	51.54
147 Methylcyclohexane	55	5.861	5.861	(1.078)	160388	50.0000	48.19(M)
148 Tert-butyl alcohol	59	2.824	2.824	(0.602)	132233	1000.00	957.02
149 Isopropyl alcohol	45	2.446	2.446	(0.521)	86589	1000.00	1008.71
151 4-Methyl-2-pentanol	45	7.105	7.105	(1.307)	487036	1000.00	918.10(M)
156 Diisopropyl ether	45	3.503	3.503	(0.747)	432480	50.0000	49.92
158 Dichlorofluoromethane	67	1.812	1.812	(0.386)	149819	50.0000	47.99
166 1,2,3-Trimethylbenzene	105	10.142	10.142	(1.007)	313530	50.0000	51.52
160 2-Methylnaphthalene	142	12.904	12.904	(1.281)	118035	50.0000	47.23
180 1-Methylnaphthalene	142	13.062	13.062	(1.297)	108361	50.0000	49.15
174 tert-Amyl methyl ether	73	5.171	5.171	(1.102)	303881	50.0000	54.18
175 tert-Butyl ethyl ether	59	3.919	3.919	(0.835)	331491	50.0000	51.77
132 n-Butanol	56	5.861	5.861	(1.249)	52032	1000.00	999.35
140 1,3-Butadiene	54	1.381	1.381	(0.294)	43445	50.0000	52.87
189 n-Butyl acetate	43	7.607	7.607	(0.941)	174027	50.0000	47.34(M)
86 Benzyl Chloride	91	10.400	10.400	(1.287)	325704	50.0000	53.04
182 Epichlorohydrin	57	6.505	6.505	(1.196)	12252	200.000	172.22
150 Allyl alcohol	57	3.484	3.484	(0.743)	23177	1000.00	1042.83
162 Butyl acrylate	55	8.638	8.638	(1.069)	210286	50.0000	44.71
194 Acetaldehyde	44	1.430	1.430	(0.305)	195561	200.000	230.74
131 Methyl Acrylate	55	4.219	4.219	(0.899)	101331	50.0000	55.44
133 Ethyl Acrylate	55	5.823	5.823	(1.241)	131714	50.0000	55.31(M)
M 94 1,2-Dichloroethylene (total)	96				194159	100.000	(a)
M 95 Xylenes (total)	106				488768	150.000	(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Client ID: VSTD050
Sample Info: VSTD050;VSTD050;1;7;;
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Column phase: DB624

Instrument: voa10.i
Operator: FT
Column diameter: 0.18

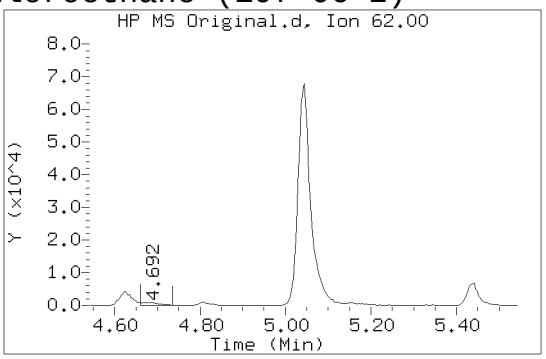
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InstruID : voa10.i
LabSampID : VSTD050

1,2-Dichloroethane (107-06-2)

Reason Code:

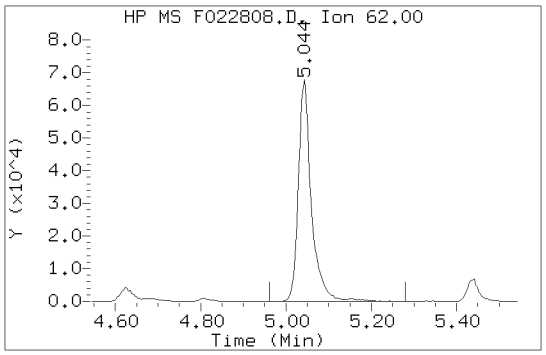
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19:31
ALSHS
Server



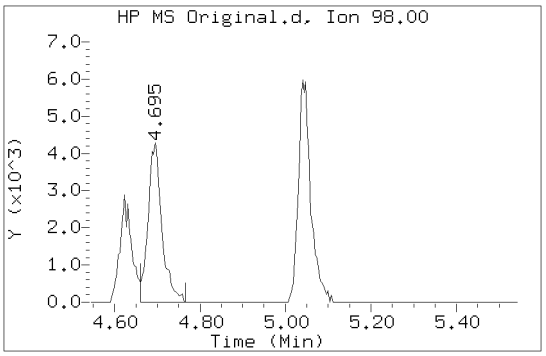
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13:57
ALSHS
Ser



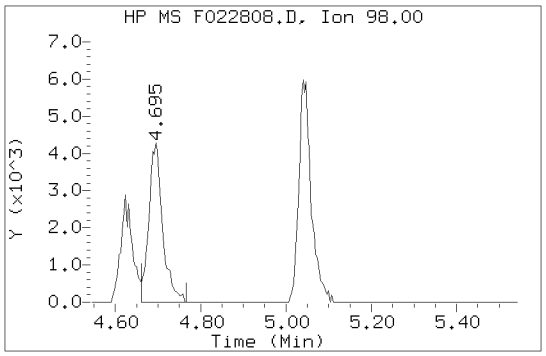
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AFTER

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11-Mar-2024
13:57
ALSHS
Ser

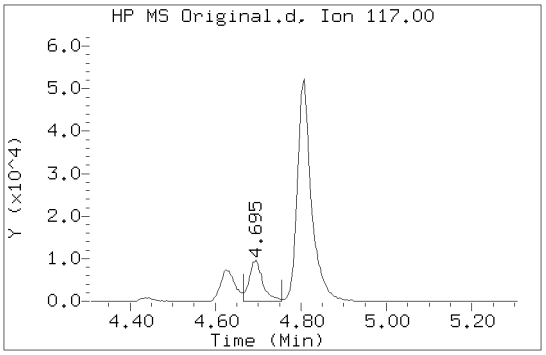


Carbon Tetrachloride (56-23-5)

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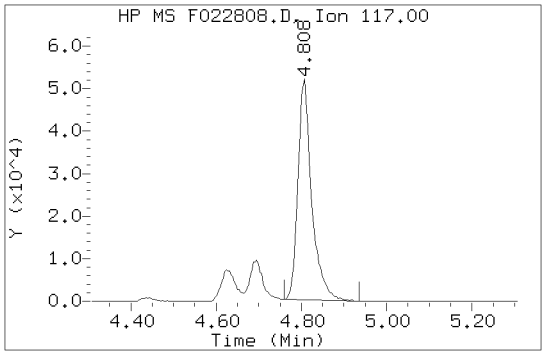
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ALSHS
Server



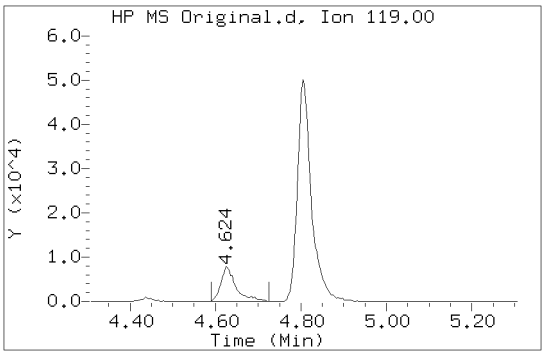
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Ser



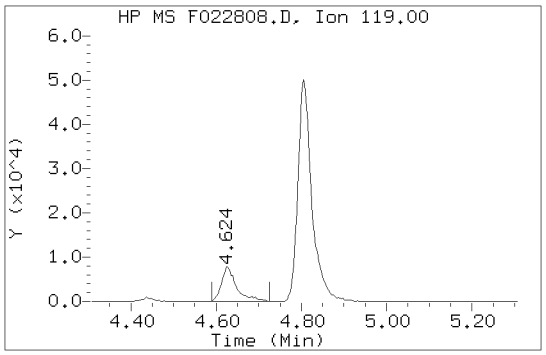
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28-Feb-2024
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AFTER

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18897
HEIGHT
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11-Mar-2024
13:57
ALSHS
Ser



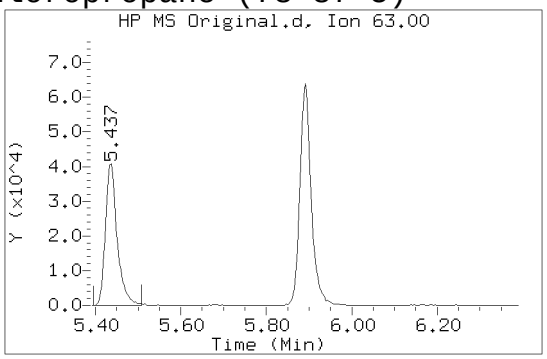
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InstruID : voa10.i
LabSampID : VSTD050

1,2-Dichloropropane (78-87-5)

Reason Code:

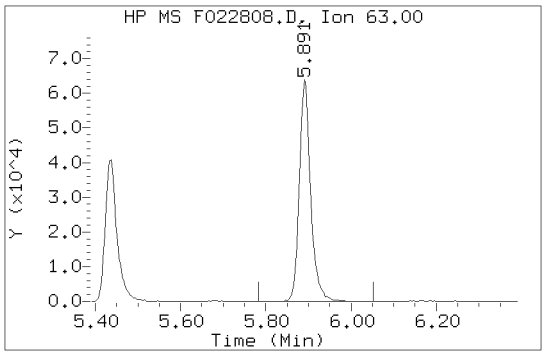
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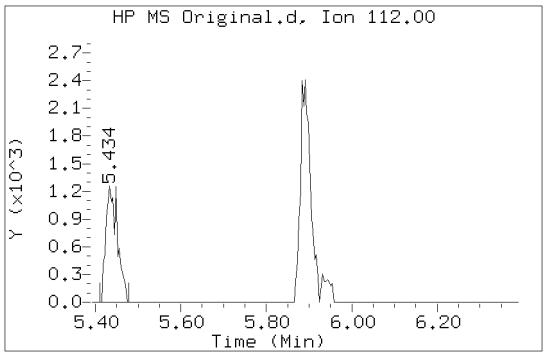
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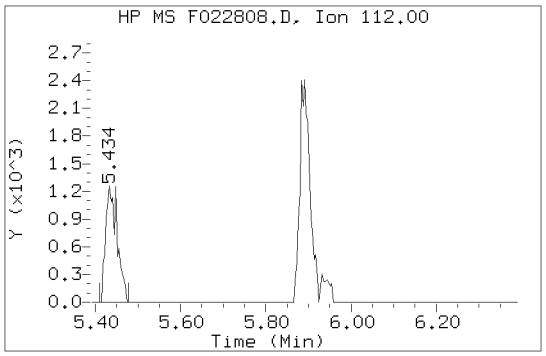
BEFORE

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AFTER

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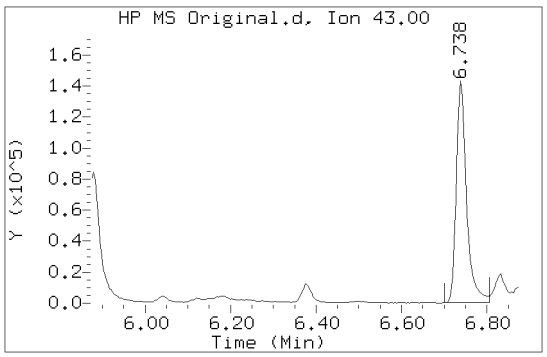


2-Nitropropane (79-46-9)

Reason Code:

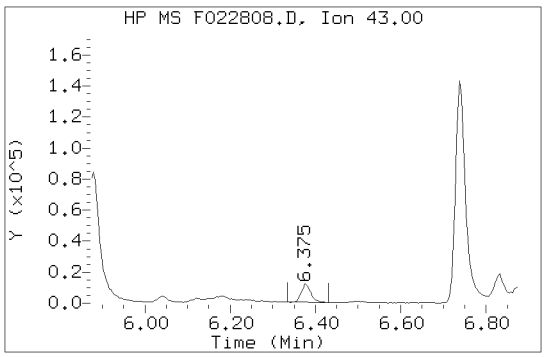
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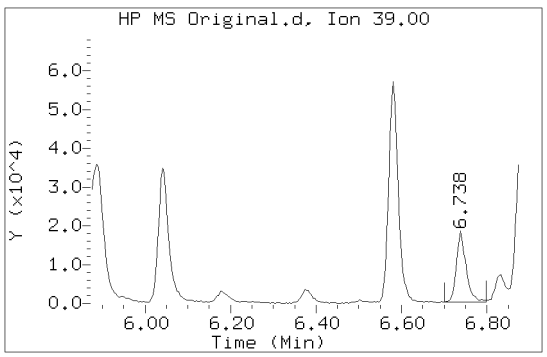
AFTER

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11-Mar-2024
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ALSHS
Ser



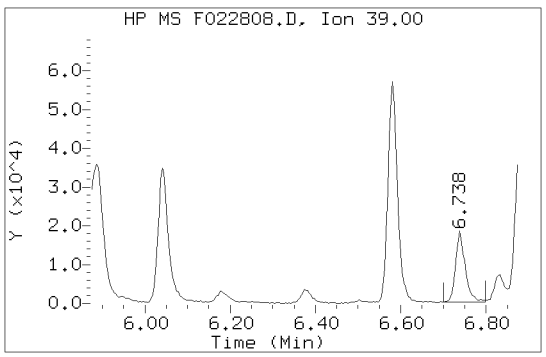
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AFTER

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AREA
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HEIGHT
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11-Mar-2024
13:57
ALSHS
Ser



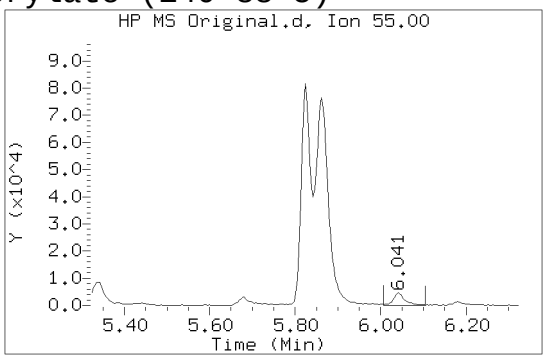
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LabSampID : VSTD050

Ethyl Acrylate (140-88-5)

Reason Code:

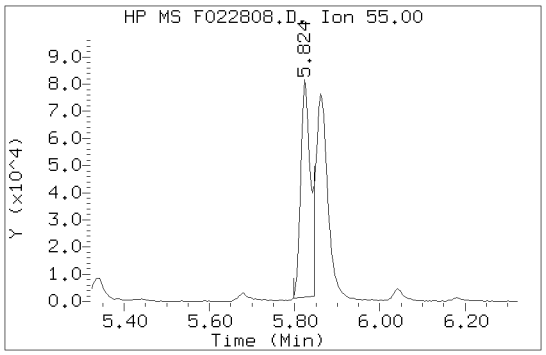
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ALSHS
Server



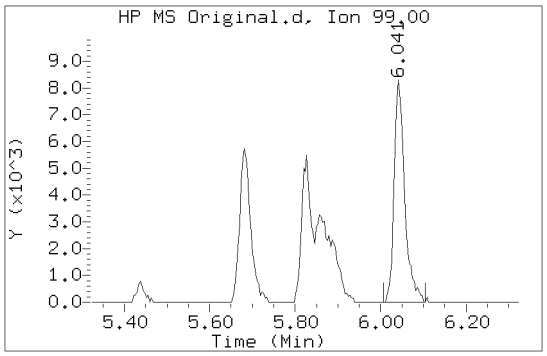
AFTER

MASS
55
AREA
131714
HEIGHT
80047
11-Mar-2024
13:57
ALSHS
Ser



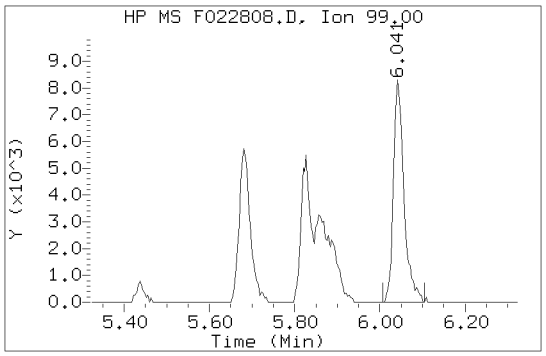
BEFORE

MASS
99
AREA
14257
HEIGHT
8298
28-Feb-2024
19:31
ALSHS
Server



AFTER

MASS
99
AREA
14257
HEIGHT
8298
11-Mar-2024
13:57
ALSHS
Ser

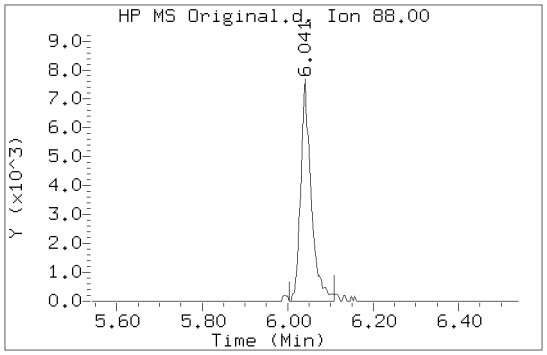


1,4-Dioxane ()

Reason Code:

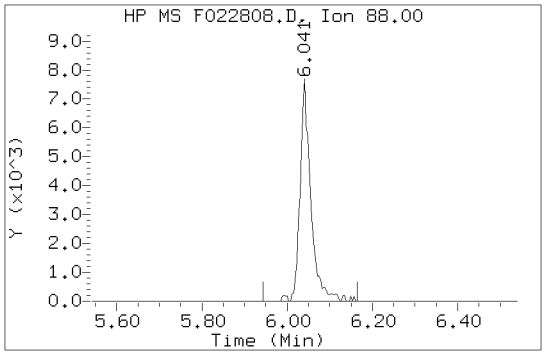
BEFORE

MASS
88
AREA
13457
HEIGHT
7696
28-Feb-2024
19:31
ALSHS
Server



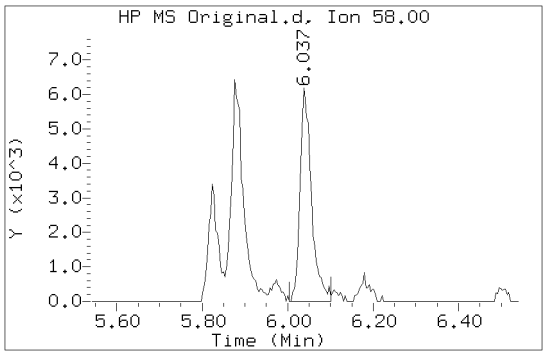
AFTER

MASS
88
AREA
13938
HEIGHT
7696
11-Mar-2024
13:57
ALSHS
Ser



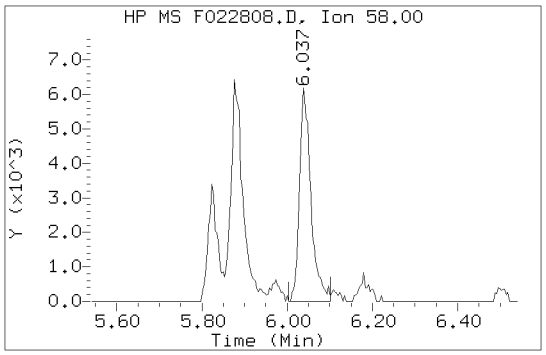
BEFORE

MASS
58
AREA
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HEIGHT
6179
28-Feb-2024
19:31
ALSHS
Server



AFTER

MASS
58
AREA
11783
HEIGHT
6179
11-Mar-2024
13:57
ALSHS
Ser

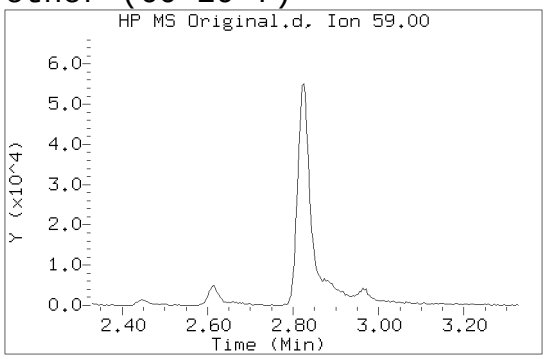


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Inj Date : 28-FEB-2024 19:15
InstruID : voa10.i
LabSampID : VSTD050

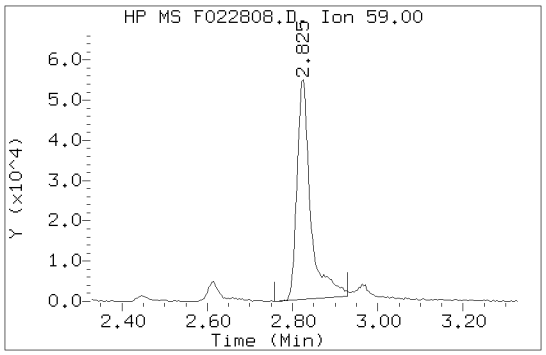
Diethyl ether (60-29-7)

Reason Code:

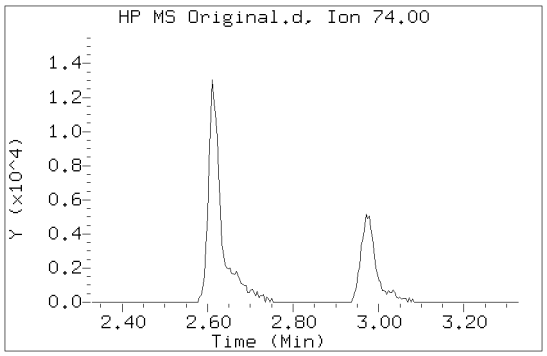
BEFORE
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AREA
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HEIGHT
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28-Feb-2024
19:31
ALSHS
Server



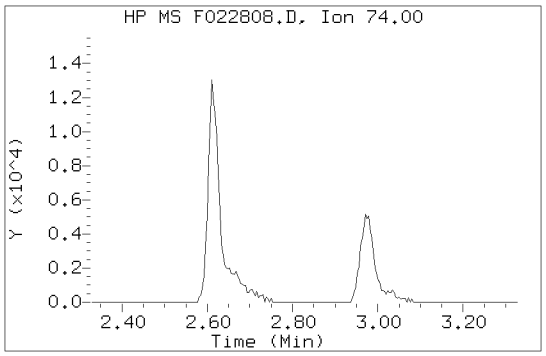
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HEIGHT
54621
11-Mar-2024
13:57
ALSHS
Ser



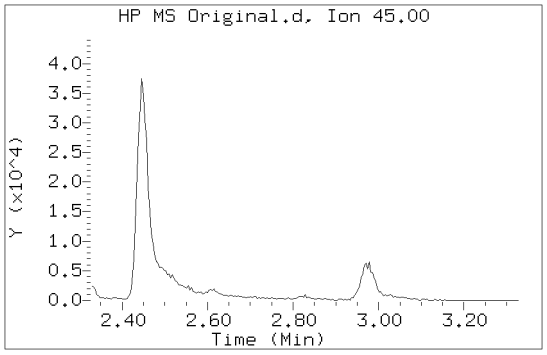
BEFORE
MASS
74
AREA
0
HEIGHT
0
28-Feb-2024
19:31
ALSHS
Server



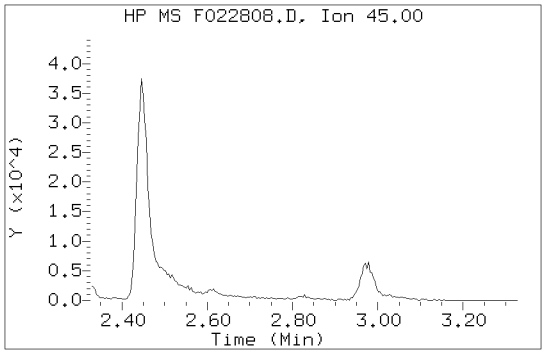
AFTER
MASS
74
AREA
0
HEIGHT
0
11-Mar-2024
13:57
ALSHS
Ser



BEFORE
MASS
45
AREA
0
HEIGHT
0
28-Feb-2024
19:31
ALSHS
Server



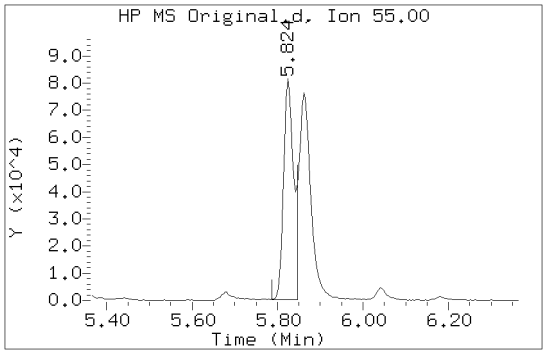
AFTER
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AREA
0
HEIGHT
0
11-Mar-2024
13:57
ALSHS
Ser



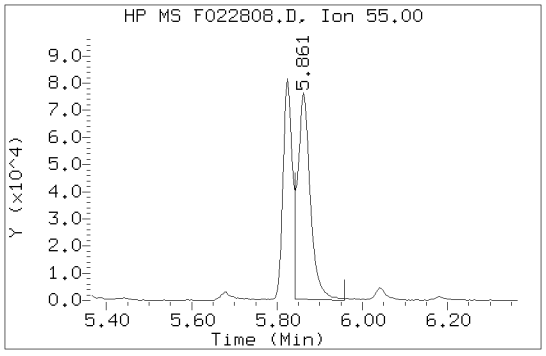
Methylcyclohexane (108-87-2)

Reason Code:

BEFORE
MASS
55
AREA
136078
HEIGHT
81396
28-Feb-2024
19:31
ALSHS
Server



AFTER
MASS
55
AREA
160388
HEIGHT
76067
11-Mar-2024
13:57
ALSHS
Ser



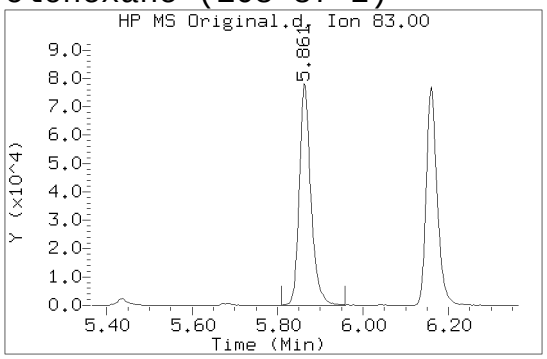
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Inj Date : 28-FEB-2024 19:15
InstruID : voa10.i
LabSampID : VSTD050

Methylcyclohexane (108-87-2)

Reason Code:

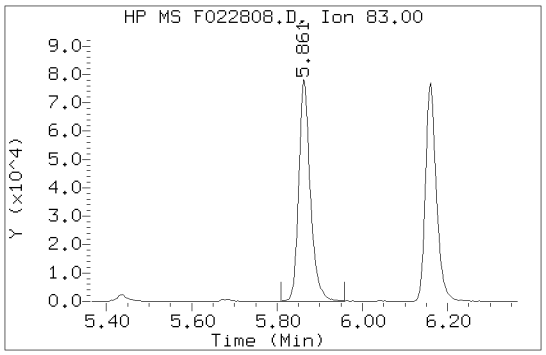
BEFORE

MASS
83
AREA
150740
HEIGHT
78120
28-Feb-2024
19:31
ALSHS
Server



AFTER

MASS
83
AREA
150740
HEIGHT
78120
11-Mar-2024
13:57
ALSHS
Ser

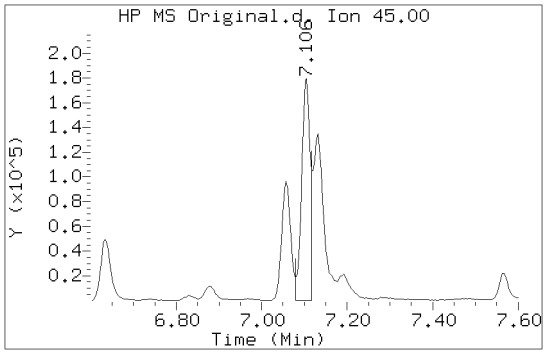


4-Methyl-2-pentanol (108-11-2)

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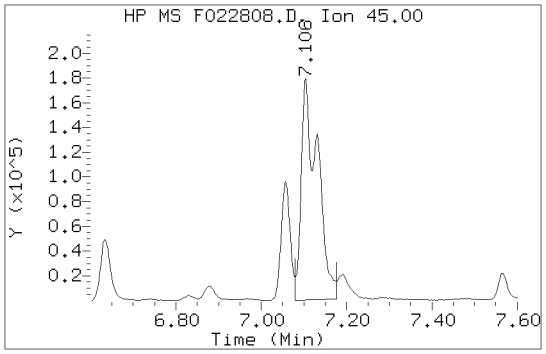
BEFORE

MASS
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AREA
257662
HEIGHT
179122
28-Feb-2024
19:31
ALSHS
Server



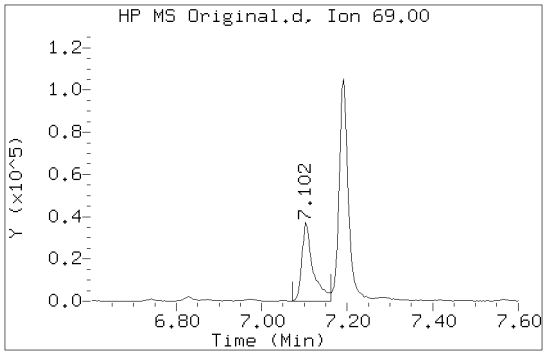
AFTER

MASS
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HEIGHT
178947
11-Mar-2024
13:57
ALSHS
Ser



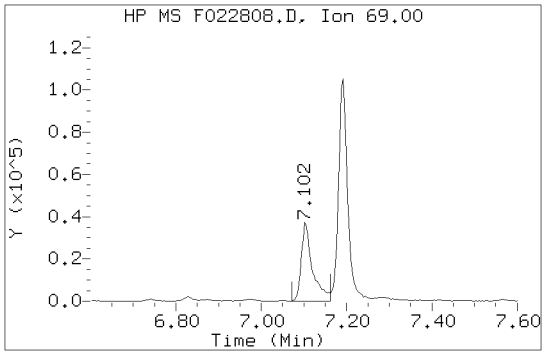
BEFORE

MASS
69
AREA
69665
HEIGHT
37584
28-Feb-2024
19:31
ALSHS
Server



AFTER

MASS
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AREA
69665
HEIGHT
37584
11-Mar-2024
13:57
ALSHS
Ser

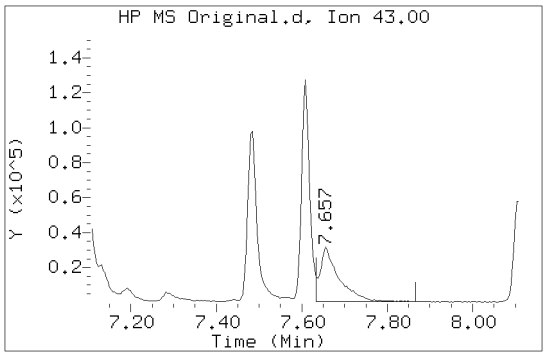


n-Butyl acetate (123-86-4)

Reason Code:

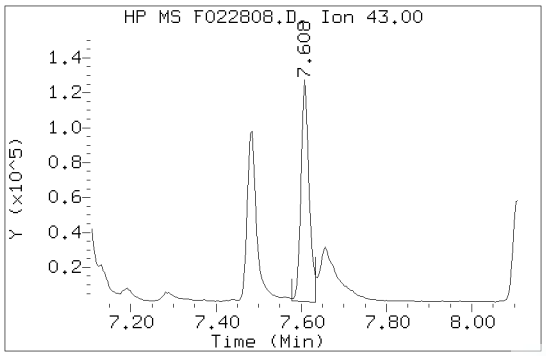
BEFORE

MASS
43
AREA
97022
HEIGHT
31184
28-Feb-2024
19:31
ALSHS
Server



AFTER

MASS
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AREA
174027
HEIGHT
126913
11-Mar-2024
13:57
ALSHS
Ser



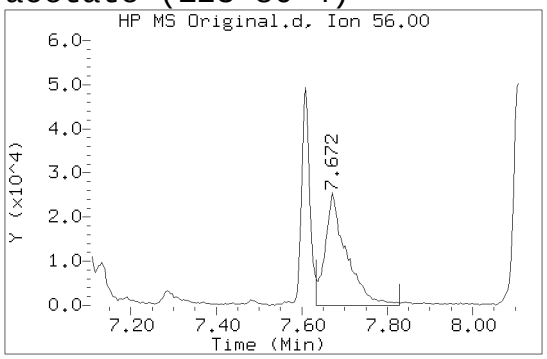
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Inj Date : 28-FEB-2024 19:15
InstruID : voa10.i
LabSampID : VSTD050

n-Butyl acetate (123-86-4)

Reason Code:

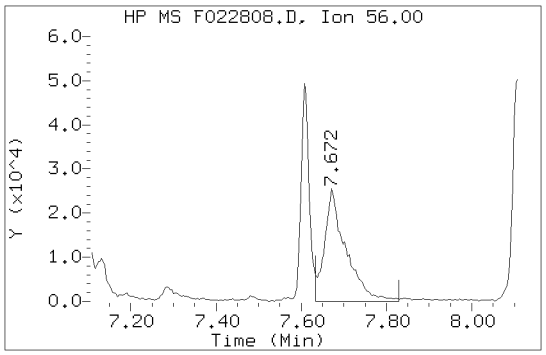
BEFORE

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56
AREA
88830
HEIGHT
25600
28-Feb-2024
19:31
ALSHS
Server



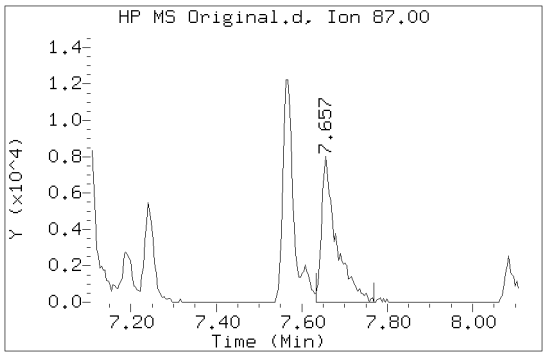
AFTER

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11-Mar-2024
13:57
ALSHS
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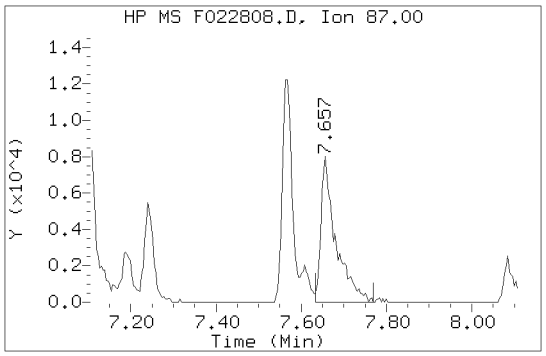
BEFORE

MASS
87
AREA
19370
HEIGHT
8037
28-Feb-2024
19:31
ALSHS
Server



AFTER

MASS
87
AREA
19370
HEIGHT
8037
11-Mar-2024
13:57
ALSHS
Ser



Data File: \\NAHSTWS005\Target\chem\voa10.i\G240228.b\F022809.D Page 1
Report Date: 11-Mar-2024 13:59

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa10.i\G240228.b\F022809.D
Lab Smp Id: VSTD100 Client Smp ID: VSTD100
Inj Date : 28-FEB-2024 19:36
Operator : FT Inst ID: voa10.i
Smp Info : VSTD100;VSTD100;1;8;;
Misc Info : V10;WATER;0;1;
Comment :
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Meth Date : 11-Mar-2024 13:59 voa10.i Quant Type: ISTD
Cal Date : 28-FEB-2024 19:15 Cal File: F022808.D
Als bottle: 9 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 01_STD_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.691	4.691	(1.000)	218457	50.0000	
2	Dichlorodifluoromethane	85	1.152	1.152	(0.246)	178204	100.000	94.53
3	Chloromethane	50	1.280	1.280	(0.273)	367024	100.000	92.40
4	Propionitrile	54	4.155	4.155	(0.886)	244133	1000.00	964.87
5	Vinyl Chloride	62	1.355	1.355	(0.289)	242162	100.000	93.42
6	Bromomethane	94	1.587	1.587	(0.338)	87863	100.000	102.07
7	Chloroethane	64	1.662	1.662	(0.354)	145139	100.000	94.43
8	Trichlorofluoromethane	101	1.857	1.857	(0.396)	242684	100.000	94.67
9	Acrolein	56	3.169	3.169	(0.676)	134168	200.000	204.49
10	Acetone	43	2.314	2.314	(0.493)	173736	200.000	223.51
11	1,1-Dichloroethene	96	2.269	2.269	(0.484)	152159	100.000	97.43
12	Isobutyl Alcohol	43	5.160	5.160	(1.100)	683747	2000.00	2270.79
13	Acetonitrile	39	2.588	2.588	(0.552)	253830	1000.00	1000.42
14	Allyl Chloride	41	2.588	2.588	(0.552)	388545	100.000	98.78
15	Iodomethane	142	2.397	2.397	(0.511)	237368	200.000	194.57
16	Acrylonitrile	53	2.937	2.937	(0.626)	137020	200.000	222.09
17	Methylene Chloride	84	2.701	2.701	(0.576)	184709	100.000	100.88
18	Methyl tert-butyl ether	73	2.974	2.974	(0.634)	545841	100.000	104.21
19	Carbon Disulfide	76	2.457	2.457	(0.524)	1002424	200.000	192.97
20	trans-1,2-Dichloroethene	96	2.967	2.967	(0.632)	172731	100.000	93.48

21 Vinyl Acetate	43	3.473	3.473 (0.740)	896215	200.000	201.80
22 1,1-Dichloroethane	63	3.398	3.398 (0.724)	350767	100.000	92.90

Data File: \\NAHSTWS005\Target\chem\voa10.i\G240228.b\F022809.D Page 2
Report Date: 11-Mar-2024 13:59

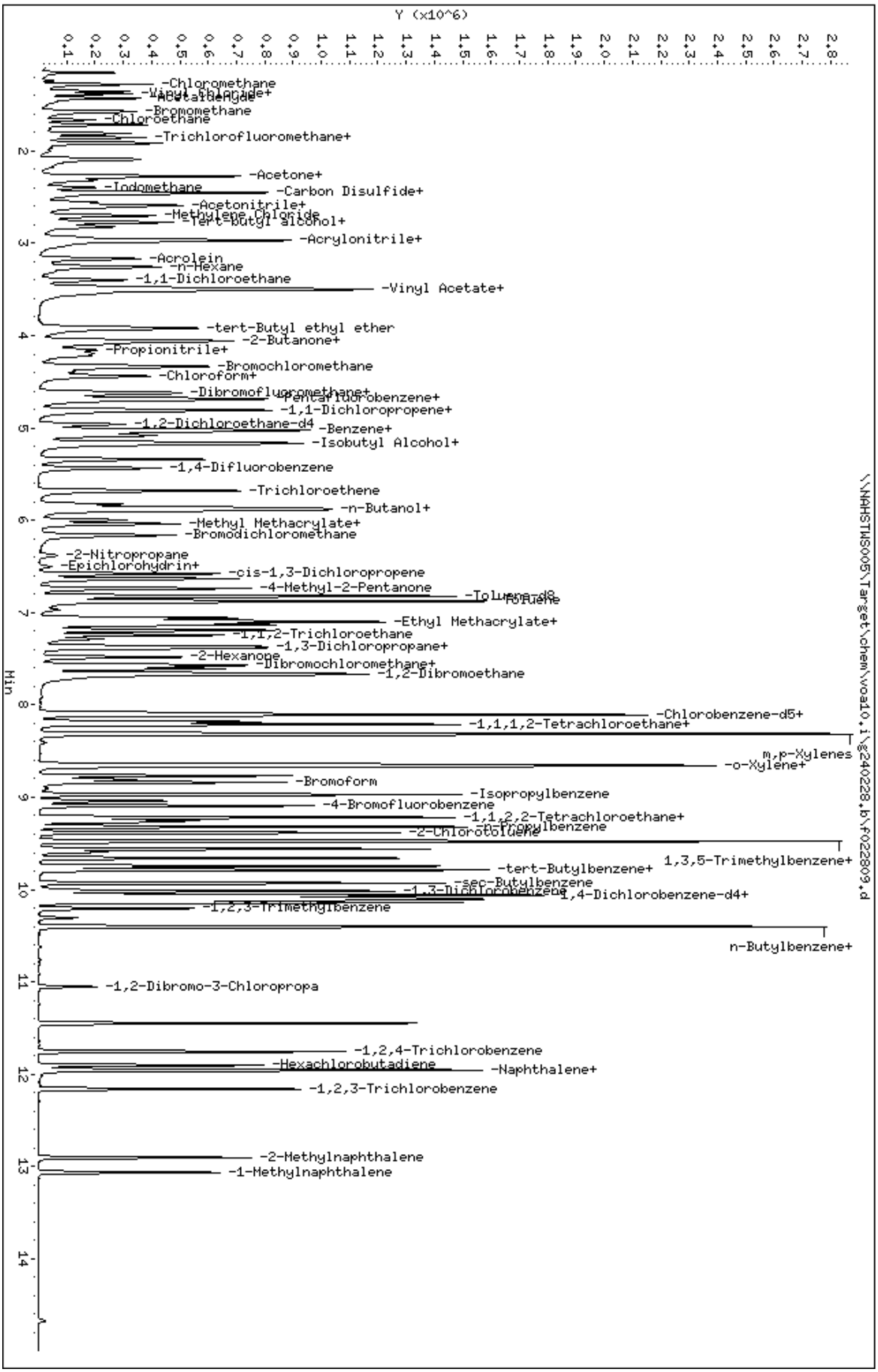
			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
	24	2-Butanone	43	4.091	4.091	(0.872)	171023	200.000	211.33
	25	Methacrylonitrile	41	4.058	4.058	(0.865)	185908	100.000	100.38
	26	2,2-Dichloropropane	77	4.054	4.054	(0.864)	254575	100.000	98.94
	27	cis-1,2-Dichloroethene	96	4.061	4.061	(0.866)	190161	100.000	93.38
	28	Chloroform	83	4.440	4.440	(0.946)	324594	100.000	102.13
	29	Bromochloromethane	128	4.327	4.327	(0.922)	80620	100.000	97.47
$	30	Dibromofluoromethane	113	4.612	4.612	(0.983)	155869	100.000	98.50
	31	1,1,1-Trichloroethane	97	4.627	4.627	(0.986)	272404	100.000	97.93
	32	1,1-Dichloropropene	75	4.807	4.807	(0.884)	270113	100.000	91.42
	33	1,2-Dichloroethane	62	5.040	5.040	(0.927)	274949	100.000	94.80(M)
	34	Carbon Tetrachloride	117	4.807	4.807	(0.884)	216813	100.000	98.32(M)
$	35	1,2-Dichloroethane-d4	65	4.965	4.965	(1.058)	217052	100.000	99.95
*	36	1,4-Difluorobenzene	114	5.437	5.437	(1.000)	336690	50.0000	
	37	Benzene	78	5.021	5.021	(0.923)	821836	100.000	91.61
	38	Trichloroethene	130	5.681	5.681	(1.045)	188432	100.000	93.75
	39	Bromodichloromethane	83	6.160	6.160	(1.133)	262202	100.000	98.98
	40	Methyl Methacrylate	41	6.041	6.041	(1.288)	230597	100.000	105.15
	42	1,2-Dichloropropane	63	5.891	5.891	(1.083)	232380	100.000	96.05(M)
	43	2-Nitropropane	43	6.378	6.378	(1.360)	37064	100.000	97.26(M)
	44	Dibromomethane	93	5.996	5.996	(1.103)	108201	100.000	101.09
	45	4-Methyl-2-Pentanone	43	6.738	6.738	(0.834)	498688	200.000	214.07
	46	cis-1,3-Dichloropropene	75	6.580	6.580	(1.210)	318534	100.000	105.39
*	47	Chlorobenzene-d5	117	8.084	8.084	(1.000)	272502	50.0000	
$	48	Toluene-d8	98	6.820	6.820	(0.844)	688756	100.000	101.48
	49	Ethyl Methacrylate	69	7.105	7.105	(1.307)	149336	100.000	106.22
	50	Toluene	91	6.880	6.880	(0.851)	798112	100.000	95.26
	51	trans-1,3-Dichloropropene	75	7.086	7.086	(1.303)	259712	100.000	111.80
	52	2-Hexanone	43	7.480	7.480	(0.925)	313625	200.000	214.10
	53	1,1,2-Trichloroethane	83	7.244	7.244	(0.896)	148270	100.000	103.51
	54	1,3-Dichloropropane	76	7.386	7.386	(0.914)	318733	100.000	101.39
	55	Dibromochloromethane	129	7.581	7.581	(0.938)	186050	100.000	110.17
	56	Tetrachloroethene	164	7.368	7.368	(0.911)	144192	100.000	98.35
	57	1,2-Dibromoethane	107	7.671	7.671	(0.949)	164423	100.000	104.41
	58	1-Chlorohexane	55	8.102	8.102	(1.490)	186080	100.000	93.40
	59	Chlorobenzene	112	8.106	8.106	(1.003)	478417	100.000	96.57
	60	1,1,1,2-Tetrachloroethane	131	8.185	8.185	(1.013)	177769	100.000	103.73
	61	Ethylbenzene	106	8.211	8.211	(1.016)	249796	100.000	99.81
	62	m,p-Xylenes	106	8.316	8.316	(1.029)	634221	200.000	197.43
	63	o-Xylene	106	8.653	8.653	(1.070)	310838	100.000	100.29
	64	Styrene	104	8.665	8.665	(1.072)	560148	100.000	111.95
	66	Bromoform	173	8.807	8.807	(1.089)	125948	100.000	110.11
	67	Isopropylbenzene	105	8.972	8.972	(1.110)	777159	100.000	99.61
	68	1,1,2,2-Tetrachloroethane	83	9.219	9.219	(0.916)	227940	100.000	94.75
$	69	4-Bromofluorobenzene	95	9.092	9.092	(1.125)	253800	100.000	103.21
*	70	1,4-Dichlorobenzene-d4	152	10.070	10.070	(1.000)	158733	50.0000	
	71	1,2,3-Trichloropropane	75	9.253	9.253	(0.919)	254878	100.000	104.11
	72	trans-1,4-Dichloro-2-butene	53	9.268	9.268	(1.147)	62255	100.000	113.07
	73	n-Propylbenzene	91	9.321	9.321	(0.926)	954376	100.000	96.27
	74	Bromobenzene	156	9.216	9.216	(0.915)	215376	100.000	93.10
	75	1,3,5-Trimethylbenzene	105	9.471	9.471	(0.940)	682900	100.000	99.40
	76	2-Chlorotoluene	91	9.384	9.384	(0.932)	582687	100.000	93.16
	77	4-Chlorotoluene	91	9.478	9.478	(0.941)	690273	100.000	96.03

78	tert-Butylbenzene	119	9.748	9.748 (0.968)	541697	100.000	94.59
79	1,2,4-Trimethylbenzene	105	9.789	9.789 (0.972)	698314	100.000	100.12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	81 sec-Butylbenzene	105	9.932	9.932	(0.986)	771332	100.000	98.38
	82 p-Isopropyltoluene	119	10.055	10.055	(0.999)	701400	100.000	104.79
	83 1,3-Dichlorobenzene	146	10.014	10.014	(0.994)	398169	100.000	94.76
	84 1,4-Dichlorobenzene	146	10.093	10.093	(1.002)	420166	100.000	93.77
	87 n-Butylbenzene	91	10.400	10.400	(1.033)	684822	100.000	103.55
	88 1,2-Dichlorobenzene	146	10.404	10.404	(1.033)	399598	100.000	95.99
	89 1,2-Dibromo-3-Chloropropane	155	11.056	11.056	(1.098)	34440	100.000	98.05
	90 1,2,4-Trichlorobenzene	180	11.753	11.753	(1.167)	270841	100.000	102.90
	91 Hexachlorobutadiene	225	11.907	11.907	(1.182)	128811	100.000	104.04
	92 Naphthalene	128	11.960	11.960	(1.188)	655212	100.000	104.08
	93 1,2,3-Trichlorobenzene	180	12.162	12.162	(1.208)	238266	100.000	100.57
	135 1,4-Dioxane	88	6.037	6.037	(1.287)	27373	2000.00	2137.95(M)
	130 Ethyl Acetate	43	4.189	4.189	(0.893)	245105	100.000	108.06
	136 n-Hexane	57	3.259	3.259	(0.695)	243424	100.000	106.84
	138 Freon TF	101	2.277	2.277	(0.485)	147918	100.000	92.93
	139 Diethyl ether	59	2.820	2.820	(0.601)	250938	100.000	104.37(M)
	141 Cyclohexane	56	4.684	4.684	(0.998)	313372	100.000	96.58
	142 Tetrahydrofuran	42	4.399	4.399	(0.938)	62783	200.000	208.66
	146 Methyl Acetate	43	2.611	2.611	(0.557)	272631	100.000	102.58
	147 Methylcyclohexane	55	5.861	5.861	(1.078)	318498	100.000	97.05(M)
	148 Tert-butyl alcohol	59	2.820	2.820	(0.601)	270851	2000.00	2129.09
	149 Isopropyl alcohol	45	2.446	2.446	(0.521)	171621	2000.00	2104.12
	151 4-Methyl-2-pentanol	45	7.101	7.101	(1.306)	1059963	2000.00	1993.39(M)
	156 Diisopropyl ether	45	3.503	3.503	(0.747)	852905	100.000	100.26
	158 Dichlorofluoromethane	67	1.812	1.812	(0.386)	289637	100.000	94.48
	166 1,2,3-Trimethylbenzene	105	10.142	10.142	(1.007)	665859	100.000	105.51
	160 2-Methylnaphthalene	142	12.904	12.904	(1.281)	287160	100.000	104.78
	180 1-Methylnaphthalene	142	13.062	13.062	(1.297)	247283	100.000	105.60
	174 tert-Amyl methyl ether	73	5.171	5.171	(1.102)	591346	100.000	107.37
	175 tert-Butyl ethyl ether	59	3.919	3.919	(0.835)	654179	100.000	104.04
	132 n-Butanol	56	5.864	5.864	(1.250)	102193	2000.00	1998.78
	140 1,3-Butadiene	54	1.381	1.381	(0.294)	81450	100.000	100.94
	189 n-Butyl acetate	43	7.607	7.607	(0.941)	390493	100.000	107.48(M)
	86 Benzyl Chloride	91	10.400	10.400	(1.287)	684822	100.000	114.09
	182 Epichlorohydrin	57	6.502	6.502	(1.196)	27560	400.000	405.19
	150 Allyl alcohol	57	3.480	3.480	(0.742)	44384	2000.00	2007.19
	162 Butyl acrylate	55	8.638	8.638	(1.069)	480072	100.000	101.54
	194 Acetaldehyde	44	1.430	1.430	(0.305)	316078	400.000	395.76
	131 Methyl Acrylate	55	4.219	4.219	(0.899)	198294	100.000	110.49
	133 Ethyl Acrylate	55	5.823	5.823	(1.241)	270576	100.000	115.72(M)
M	94 1,2-Dichloroethylene (total)	96				362892	200.000	(a)
M	95 Xylenes (total)	106				945059	300.000	(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.


Y (x10^6)
0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8
Min
2 3 4 5 6 7 8 9 10 11 12 13 14
-Chloromethane
-Vinyl chloride+
-Acetaldehyde+
-Bromomethane
-Chloroethane
-Trichlorofluoromethane+
-Acetone+
-Iodomethane
-Carbon Disulfide+
-Acetonitrile+
-Methylene Chloride
-Tert-butyl alcohol+
-Acrylonitrile+
-Acrolein
-n-Hexane
-1,1-Dichloroethane
-Vinyl Acetate+
-tert-Butyl ethyl ether
-2-Butanone+
-Propionitrile+
-Bromochloromethane
-Chloroform+
-Dibromofluoromethane+
-Pentafluorobenzene+
-1,1-Dichloropropene+
-1,2-Dichloroethane-d4
-Benzene+
-Isobutyl Alcohol+
-1,4-Difluorobenzene
-Trichloroethene
-n-Butanol+
-Methyl Methacrylate+
-Bromodichloromethane
-2-Nitropropane
-Epichlorohydrin+
-cis-1,3-Dichloropropene
-4-Methyl-2-Pentanone
-Toluene-d8
Toluene
-Ethyl Methacrylate+
-1,1,2-Trichloroethane
-1,3-Dichloropropane+
-2-Hexanone
-Dibromochloromethane+
-1,2-Dibromoethane
-Chlorobenzene-d5+
-1,1,1,2-Tetrachloroethane+
m,p-Xylenes
-o-Xylene+
-Bromoform
-Isopropylbenzene
-4-Bromofluorobenzene
-1,1,2,2-Tetrachloroethane+
-n-Propylbenzene
-2-Chlorotoluene
1,3,5-Trimethylbenzene+
-tert-Butylbenzene+
-sec-Butylbenzene
-1,3-Dichlorobenzene
1,4-Dichlorobenzene-d4+
-1,2,3-Trimethylbenzene
n-Butylbenzene+
-1,2-Dibromo-3-Chloropropa
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene+
-1,2,3-Trichlorobenzene
-2-Methylnaphthalene
-1-Methylnaphthalene
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Client ID: VSTD100
Sample Info: VSTD100;VSTD100;1;8;;
Purge Volume: 5.0
Column phase: DB624
Instrument: voa10.i
Operator: FT
Column diameter: 0.18
Page 1

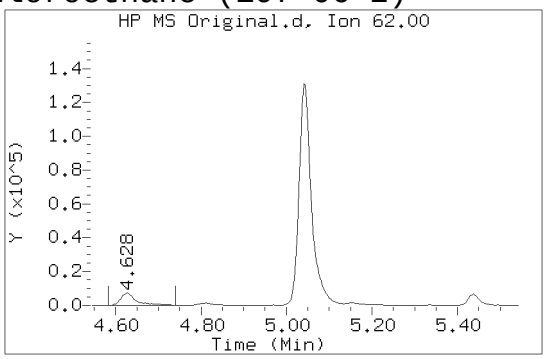
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InstruID : voa10.i
LabSampID : VSTD100

1,2-Dichloroethane (107-06-2)

Reason Code:

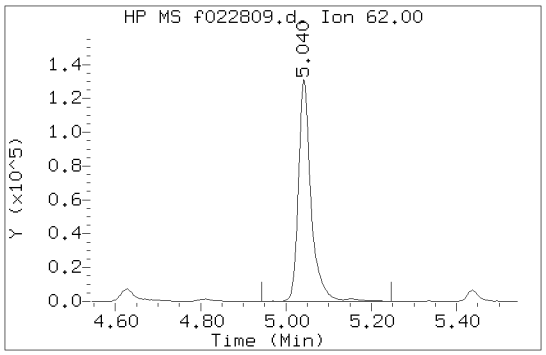
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28-Feb-2024
19:53
ALSHS
Server



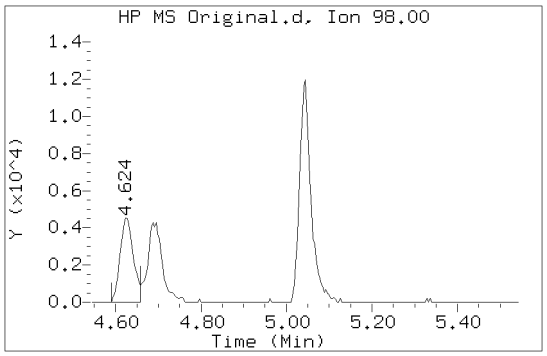
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11-Mar-2024
18:39
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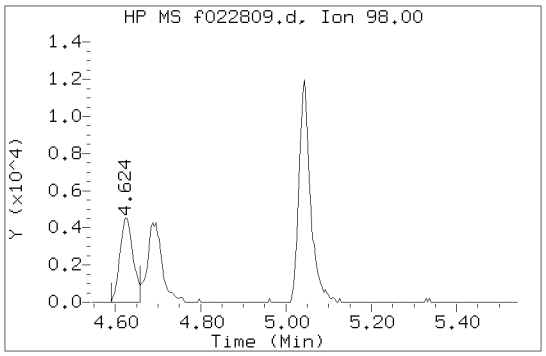
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AFTER

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11-Mar-2024
18:39
ALSHS
Ser

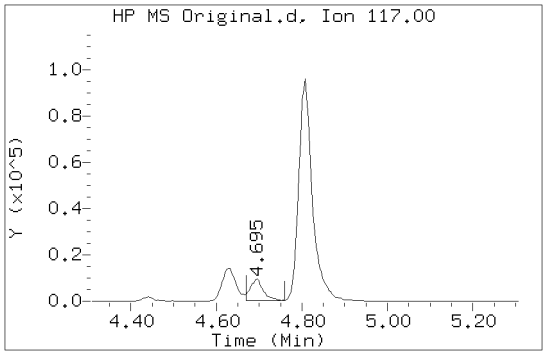


Carbon Tetrachloride (56-23-5)

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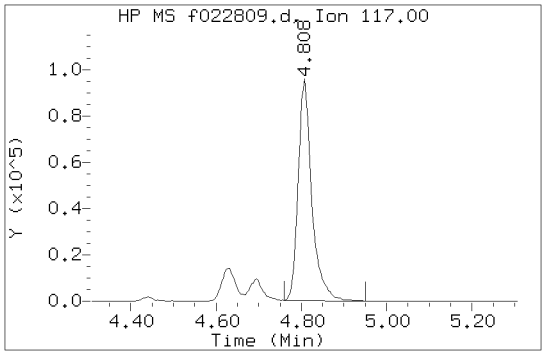
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19:53
ALSHS
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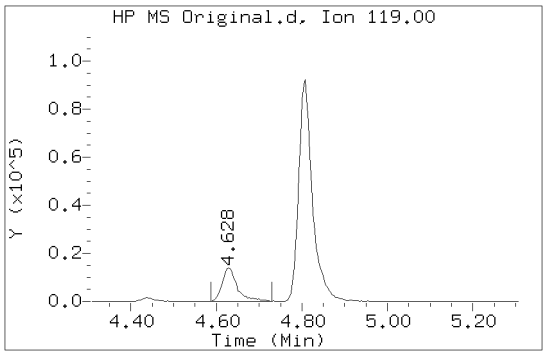
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18:39
ALSHS
Ser



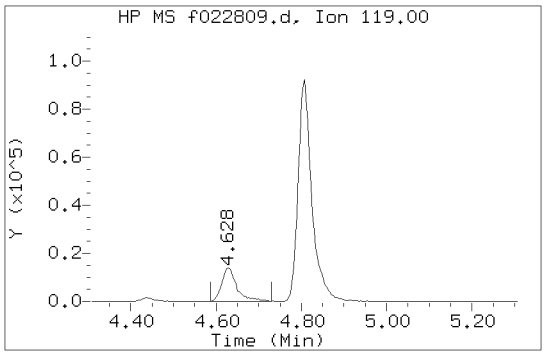
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AREA
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HEIGHT
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28-Feb-2024
19:53
ALSHS
Server



AFTER

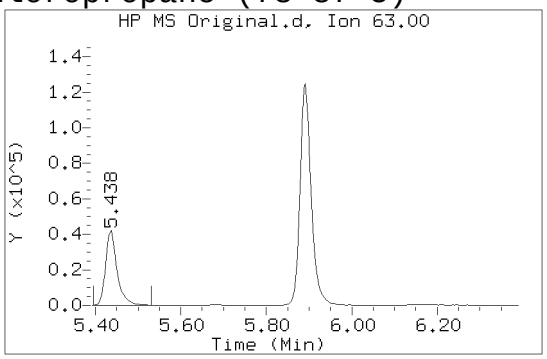
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11-Mar-2024
18:39
ALSHS
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InstruID : voa10.i
LabSampID : VSTD100

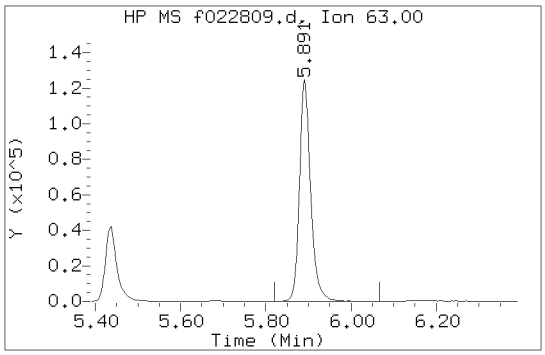
1,2-Dichloropropane (78-87-5)

BEFORE
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28-Feb-2024
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ALSHS
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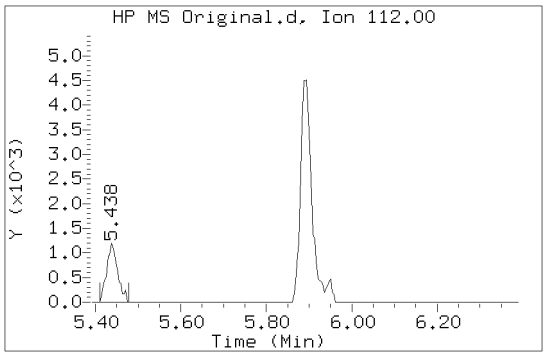


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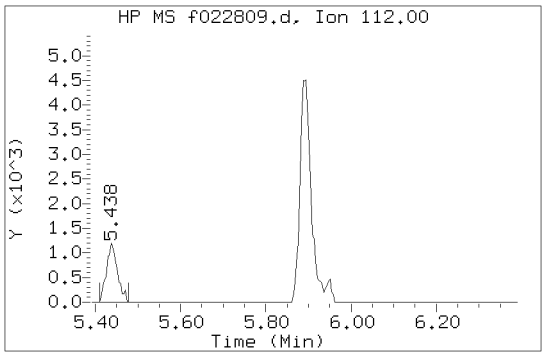
AFTER
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11-Mar-2024
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ALSHS
Ser



BEFORE
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AREA
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HEIGHT
1200
28-Feb-2024
19:53
ALSHS
Server

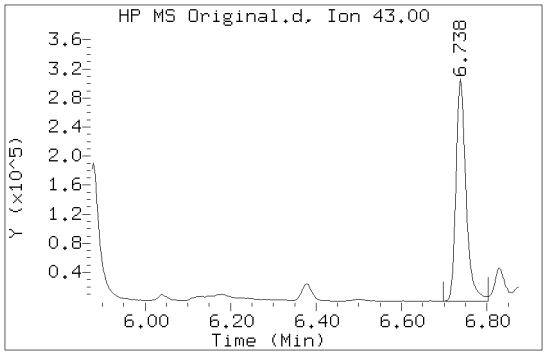


AFTER
MASS
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AREA
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HEIGHT
1200
11-Mar-2024
18:39
ALSHS
Ser



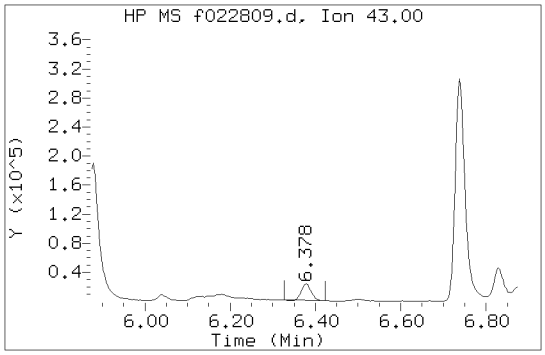
2-Nitropropane (79-46-9)

BEFORE
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HEIGHT
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28-Feb-2024
19:53
ALSHS
Server

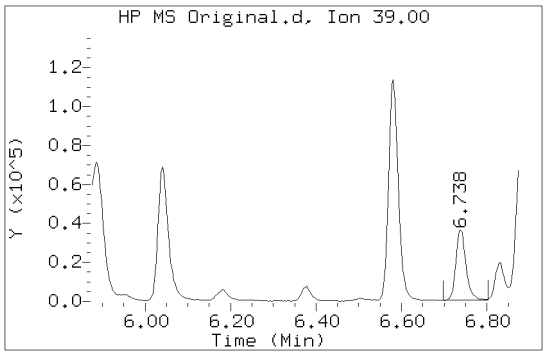


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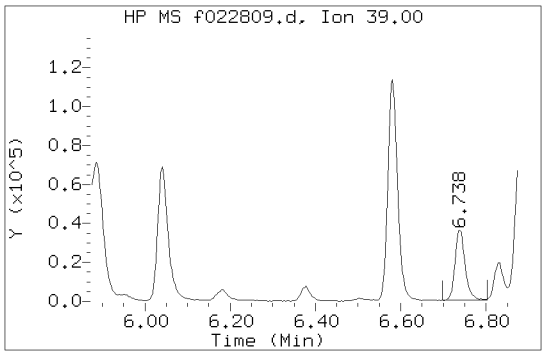
AFTER
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HEIGHT
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11-Mar-2024
18:39
ALSHS
Ser



BEFORE
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AREA
59731
HEIGHT
35913
28-Feb-2024
19:53
ALSHS
Server



AFTER
MASS
39
AREA
59731
HEIGHT
35913
11-Mar-2024
18:39
ALSHS
Ser



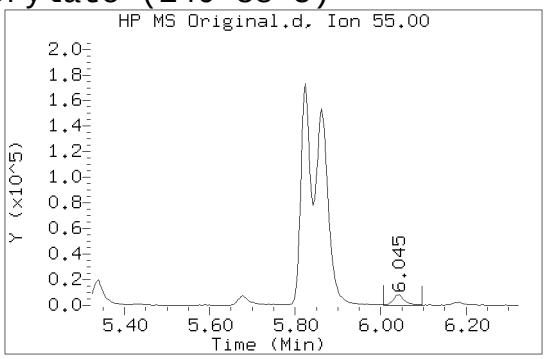
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Inj Date : 28-FEB-2024 19:36
InstruID : voa10.i
LabSampID : VSTD100

Ethyl Acrylate (140-88-5)

Reason Code:

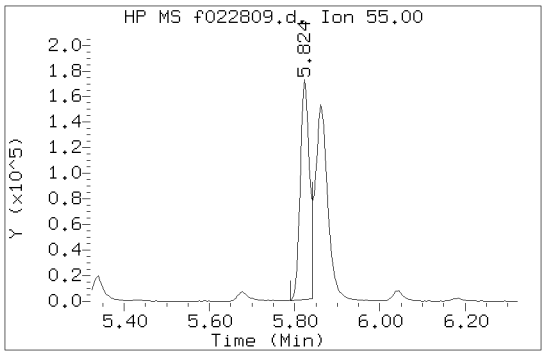
BEFORE

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AREA
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28-Feb-2024
19:53
ALSHS
Server



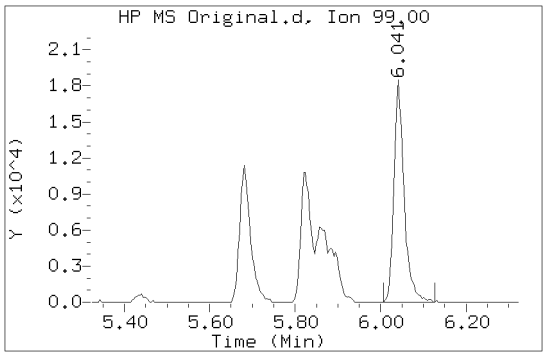
AFTER

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11-Mar-2024
18:39
ALSHS
Ser



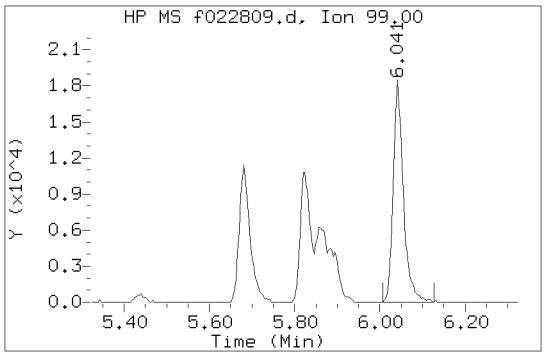
BEFORE

MASS
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28-Feb-2024
19:53
ALSHS
Server



AFTER

MASS
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AREA
30607
HEIGHT
18496
11-Mar-2024
18:39
ALSHS
Ser

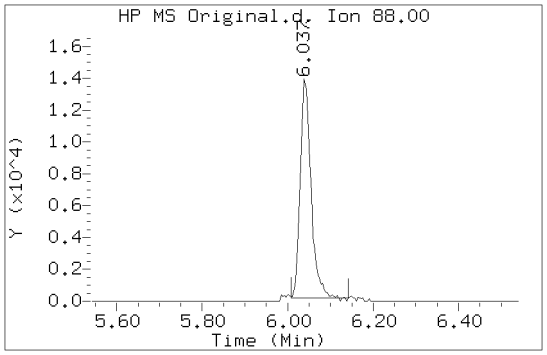


1,4-Dioxane ()

Reason Code:

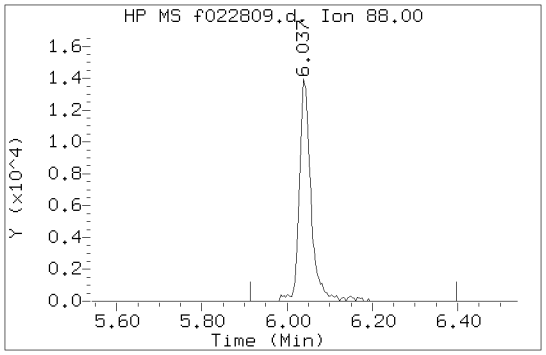
BEFORE

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28-Feb-2024
19:53
ALSHS
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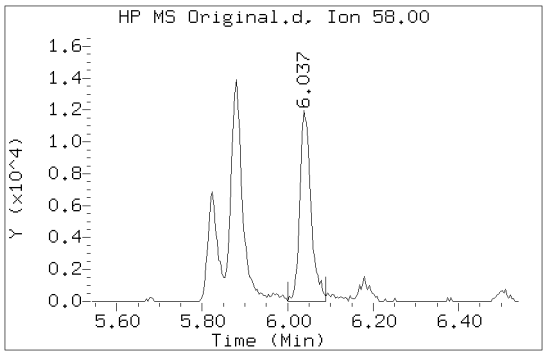
AFTER

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11-Mar-2024
18:39
ALSHS
Ser



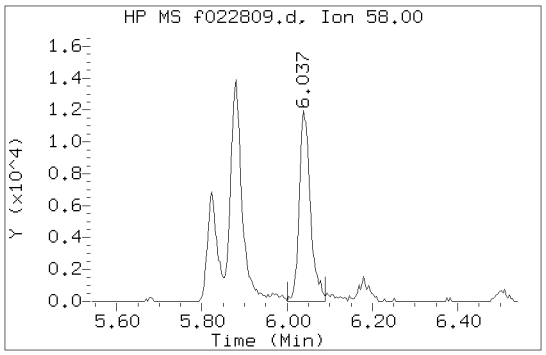
BEFORE

MASS
58
AREA
22210
HEIGHT
11990
28-Feb-2024
19:53
ALSHS
Server



AFTER

MASS
58
AREA
22210
HEIGHT
11990
11-Mar-2024
18:39
ALSHS
Ser

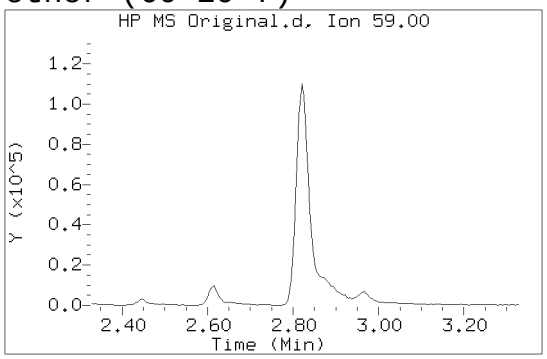


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Inj Date : 28-FEB-2024 19:36
InstruID : voa10.i
LabSampID : VSTD100

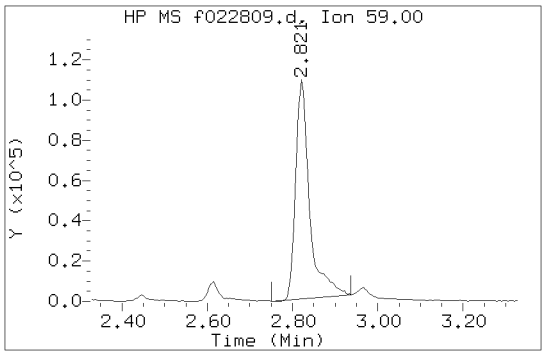
Diethyl ether (60-29-7)

Reason Code:

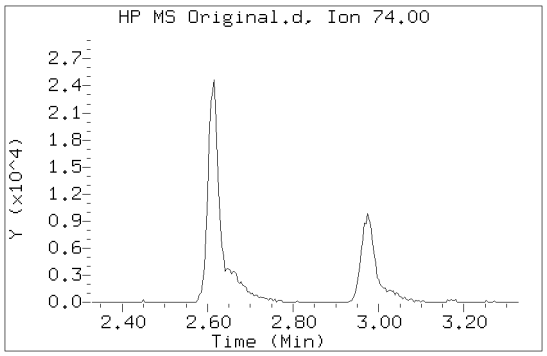
BEFORE
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59
AREA
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HEIGHT
0
28-Feb-2024
19:53
ALSHS
Server



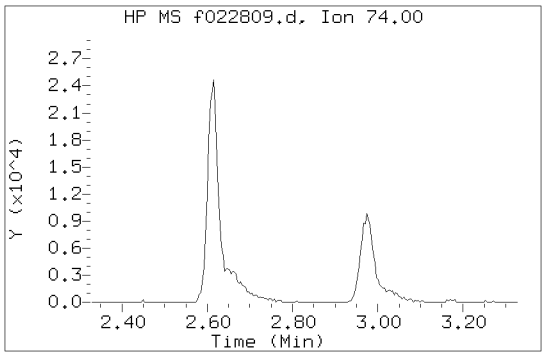
AFTER
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AREA
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HEIGHT
108846
11-Mar-2024
18:39
ALSHS
Ser



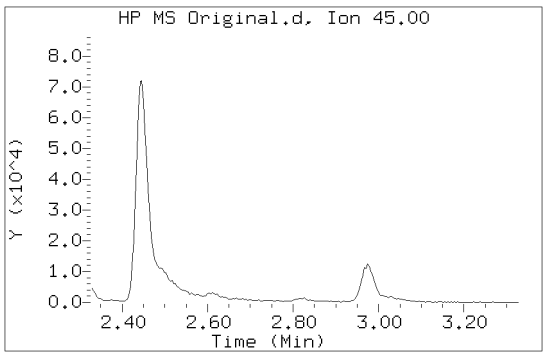
BEFORE
MASS
74
AREA
0
HEIGHT
0
28-Feb-2024
19:53
ALSHS
Server



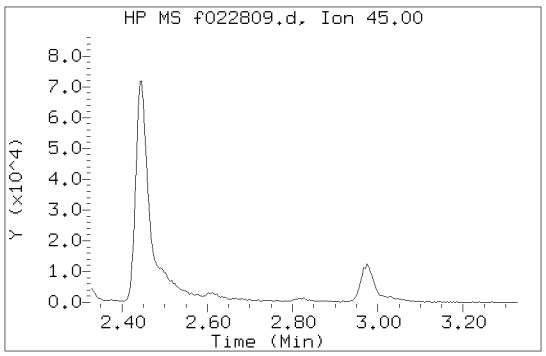
AFTER
MASS
74
AREA
0
HEIGHT
0
11-Mar-2024
18:39
ALSHS
Ser



BEFORE
MASS
45
AREA
0
HEIGHT
0
28-Feb-2024
19:53
ALSHS
Server



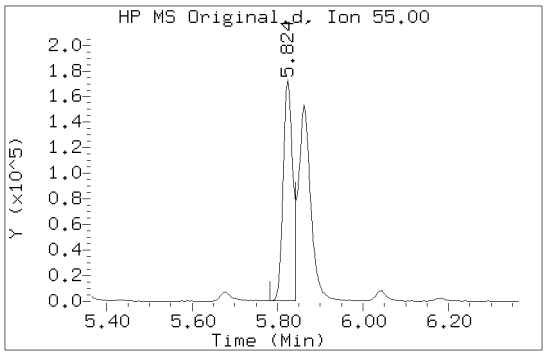
AFTER
MASS
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AREA
0
HEIGHT
0
11-Mar-2024
18:39
ALSHS
Ser



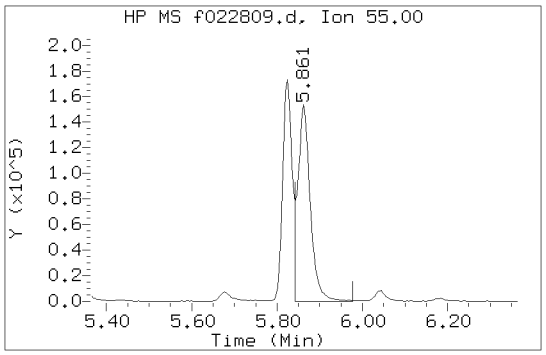
Methylcyclohexane (108-87-2)

Reason Code:

BEFORE
MASS
55
AREA
273062
HEIGHT
172718
28-Feb-2024
19:53
ALSHS
Server



AFTER
MASS
55
AREA
318498
HEIGHT
153547
11-Mar-2024
18:39
ALSHS
Ser



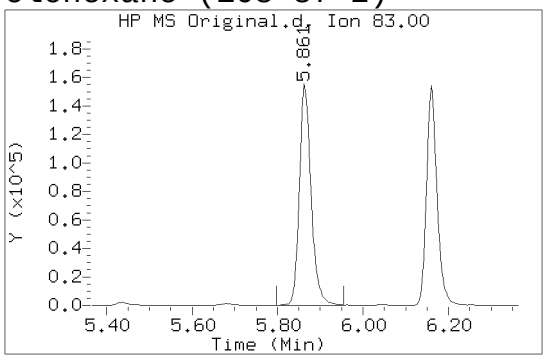
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Inj Date : 28-FEB-2024 19:36
InstruID : voa10.i
LabSampID : VSTD100

Methylcyclohexane (108-87-2)

Reason Code:

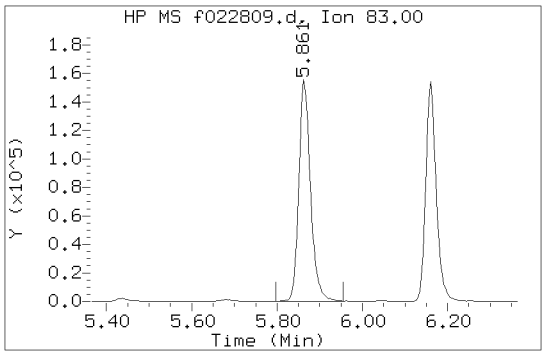
BEFORE

MASS
83
AREA
302351
HEIGHT
155584
28-Feb-2024
19:53
ALSHS
Server



AFTER

MASS
83
AREA
302351
HEIGHT
155584
11-Mar-2024
18:39
ALSHS
Ser

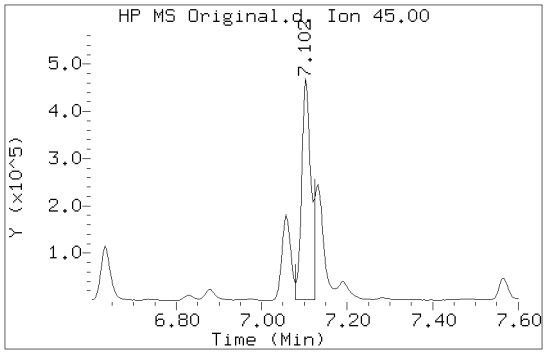


4-Methyl-2-pentanol (108-11-2)

Reason Code:

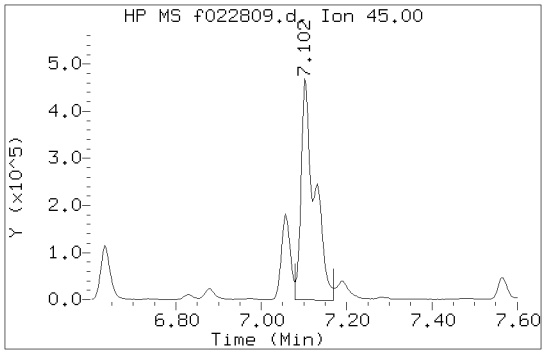
BEFORE

MASS
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AREA
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HEIGHT
467718
28-Feb-2024
19:53
ALSHS
Server



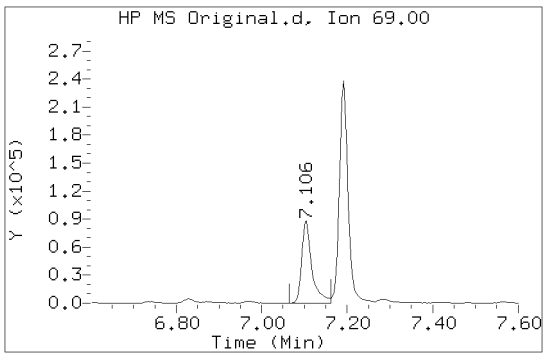
AFTER

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HEIGHT
469101
11-Mar-2024
18:39
ALSHS
Ser



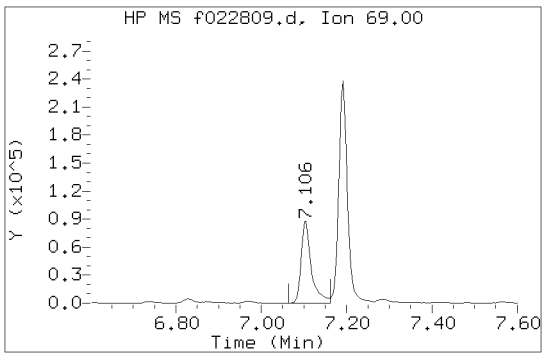
BEFORE

MASS
69
AREA
149489
HEIGHT
87915
28-Feb-2024
19:53
ALSHS
Server



AFTER

MASS
69
AREA
149489
HEIGHT
87915
11-Mar-2024
18:39
ALSHS
Ser

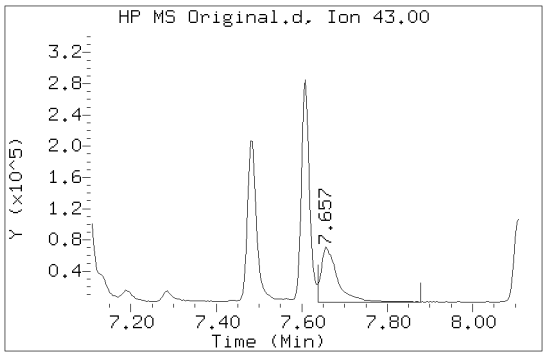


n-Butyl acetate (123-86-4)

Reason Code:

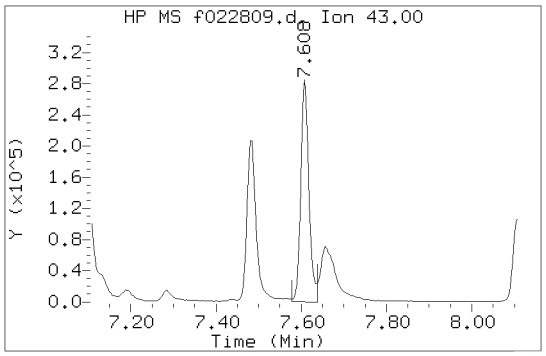
BEFORE

MASS
43
AREA
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HEIGHT
70455
28-Feb-2024
19:53
ALSHS
Server



AFTER

MASS
43
AREA
390493
HEIGHT
284967
11-Mar-2024
18:39
ALSHS
Ser



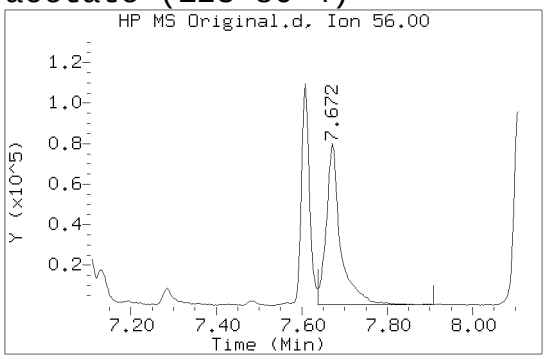
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Inj Date : 28-FEB-2024 19:36
InstruID : voa10.i
LabSampID : VSTD100

n-Butyl acetate (123-86-4)

Reason Code:

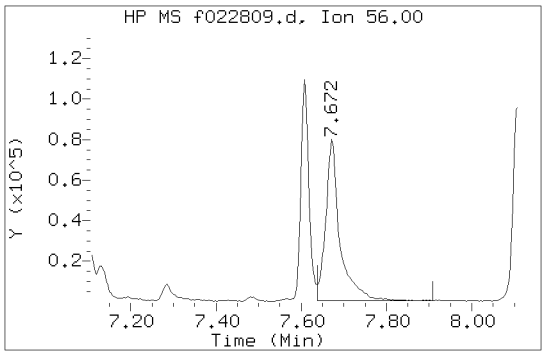
BEFORE

MASS
56
AREA
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HEIGHT
79901
28-Feb-2024
19:53
ALSHS
Server



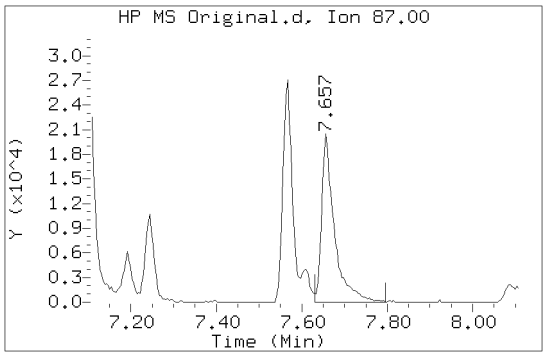
AFTER

MASS
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HEIGHT
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11-Mar-2024
18:39
ALSHS
Ser



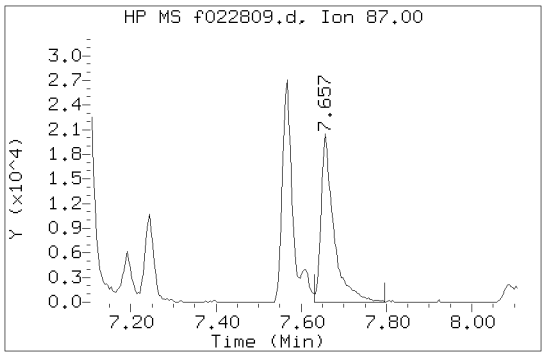
BEFORE

MASS
87
AREA
42608
HEIGHT
20488
28-Feb-2024
19:53
ALSHS
Server



AFTER

MASS
87
AREA
42608
HEIGHT
20488
11-Mar-2024
18:39
ALSHS
Ser



Data File: \\NAHSTWS005\Target\chem\voa10.i\G240228.b\F022810.D Page 1
Report Date: 11-Mar-2024 13:59

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa10.i\G240228.b\F022810.D
Lab Smp Id: VSTD150 Client Smp ID: VSTD150
Inj Date : 28-FEB-2024 19:57
Operator : FT Inst ID: voa10.i
Smp Info : VSTD150;VSTD150;1;9;;
Misc Info : V10;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa10.i\G240228.b\8260W.m
Meth Date : 11-Mar-2024 13:59 voa10.i Quant Type: ISTD
Cal Date : 28-FEB-2024 19:36 Cal File: F022809.D
Als bottle: 10 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 01_STD_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.695	4.695	(1.000)	230856	50.0000	
2	Dichlorodifluoromethane	85	1.152	1.152	(0.246)	305474	150.000	153.34
3	Chloromethane	50	1.276	1.276	(0.272)	575786	150.000	137.18
4	Propionitrile	54	4.155	4.155	(0.885)	344272	1500.00	1287.57
5	Vinyl Chloride	62	1.355	1.355	(0.289)	410096	150.000	149.71
6	Bromomethane	94	1.584	1.584	(0.337)	141601	150.000	156.23
7	Chloroethane	64	1.659	1.659	(0.353)	247118	150.000	152.15
8	Trichlorofluoromethane	101	1.857	1.857	(0.396)	424091	150.000	156.56
9	Acrolein	56	3.169	3.169	(0.675)	226794	300.000	327.10
10	Acetone	43	2.315	2.315	(0.493)	221349	300.000	275.35
11	1,1-Dichloroethene	96	2.270	2.270	(0.483)	251347	150.000	152.30
12	Isobutyl Alcohol	43	5.160	5.160	(1.099)	1012215	3000.00	3181.12
13	Acetonitrile	39	2.588	2.588	(0.551)	396686	1500.00	1592.14
14	Allyl Chloride	41	2.588	2.588	(0.551)	673899	150.000	150.32
15	Iodomethane	142	2.397	2.397	(0.511)	439938	300.000	311.57
16	Acrylonitrile	53	2.933	2.933	(0.625)	193414	300.000	297.79
17	Methylene Chloride	84	2.701	2.701	(0.575)	292267	150.000	151.27
18	Methyl tert-butyl ether	73	2.974	2.974	(0.634)	782360	150.000	141.34
19	Carbon Disulfide	76	2.453	2.453	(0.523)	1684323	300.000	305.95
20	trans-1,2-Dichloroethene	96	2.963	2.963	(0.631)	281949	150.000	144.40

21 Vinyl Acetate	43	3.473	3.473 (0.740)	1449601	300.000	308.87
22 1,1-Dichloroethane	63	3.398	3.398 (0.724)	563426	150.000	141.21

Data File: \\NAHSTWS005\Target\chem\voa10.i\G240228.b\F022810.D Page 2
Report Date: 11-Mar-2024 13:59

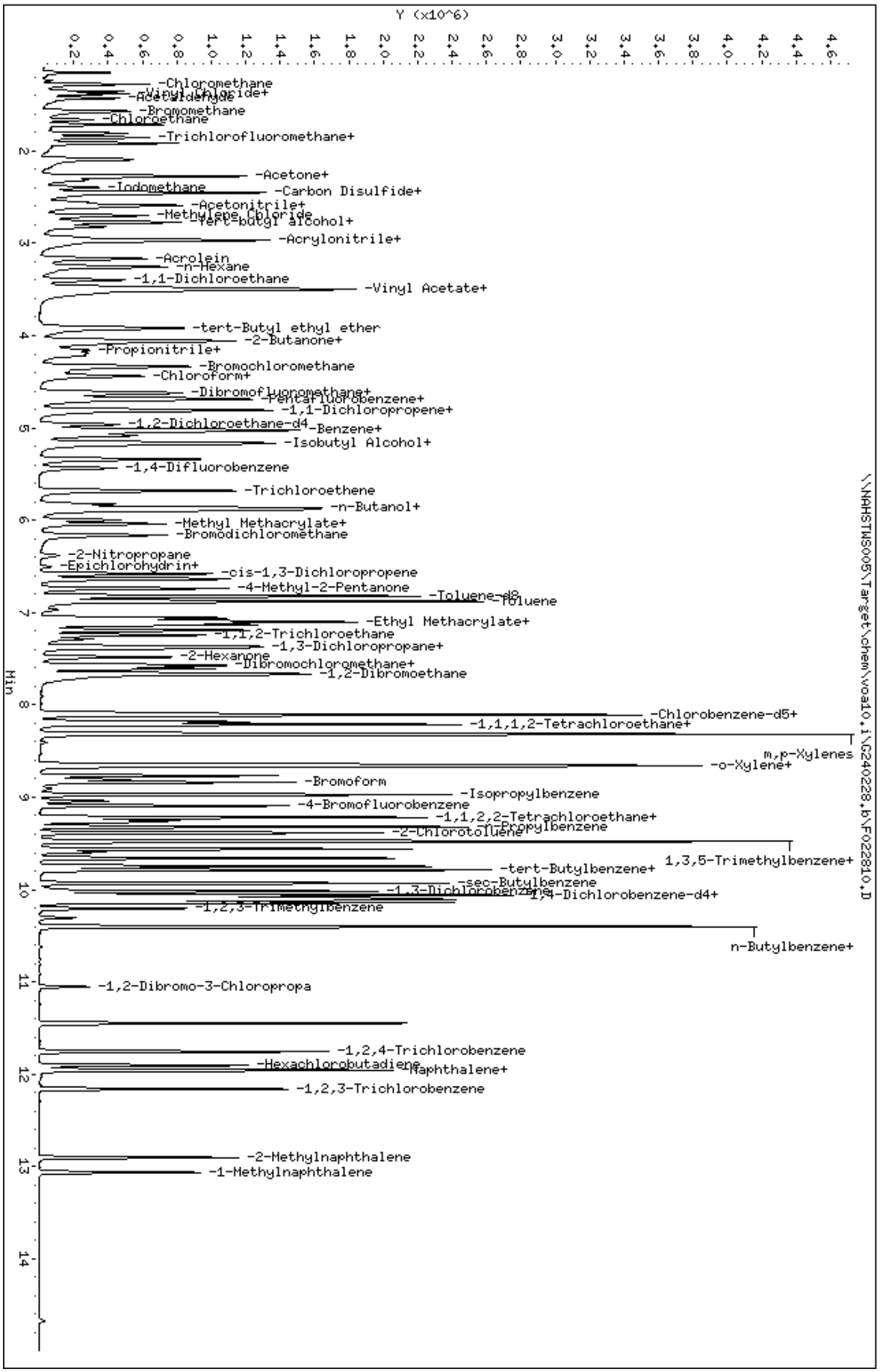
			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
	24	2-Butanone	43	4.095	4.095	(0.872)	238262	300.000	289.38
	25	Methacrylonitrile	41	4.058	4.058	(0.864)	308891	150.000	158.62
	26	2,2-Dichloropropane	77	4.058	4.058	(0.864)	416004	150.000	153.00
	27	cis-1,2-Dichloroethene	96	4.061	4.061	(0.865)	303241	150.000	140.92
	28	Chloroform	83	4.436	4.436	(0.945)	512434	150.000	153.01
	29	Bromochloromethane	128	4.335	4.335	(0.923)	121972	150.000	139.54
$	30	Dibromofluoromethane	113	4.612	4.612	(0.982)	247383	150.000	154.41
	31	1,1,1-Trichloroethane	97	4.627	4.627	(0.986)	443152	150.000	150.77
	32	1,1-Dichloropropene	75	4.811	4.811	(0.885)	448012	150.000	143.29
	33	1,2-Dichloroethane	62	5.044	5.044	(0.928)	413136	150.000	134.60(M)
	34	Carbon Tetrachloride	117	4.807	4.807	(0.884)	362985	150.000	155.90(M)
$	35	1,2-Dichloroethane-d4	65	4.961	4.961	(1.057)	329635	150.000	150.88
*	36	1,4-Difluorobenzene	114	5.437	5.437	(1.000)	356293	50.0000	
	37	Benzene	78	5.021	5.021	(0.923)	1312707	150.000	138.29
	38	Trichloroethene	130	5.681	5.681	(1.045)	302677	150.000	142.31
	39	Bromodichloromethane	83	6.161	6.161	(1.133)	405135	150.000	144.53
	40	Methyl Methacrylate	41	6.041	6.041	(1.287)	338972	150.000	146.26
	42	1,2-Dichloropropane	63	5.891	5.891	(1.083)	358198	150.000	139.91(M)
	43	2-Nitropropane	43	6.374	6.374	(1.358)	63226	150.000	158.94(M)
	44	Dibromomethane	93	5.996	5.996	(1.103)	163475	150.000	144.32
	45	4-Methyl-2-Pentanone	43	6.738	6.738	(0.834)	708560	300.000	286.19
	46	cis-1,3-Dichloropropene	75	6.580	6.580	(1.210)	495409	150.000	154.89
*	47	Chlorobenzene-d5	117	8.084	8.084	(1.000)	295354	50.0000	
$	48	Toluene-d8	98	6.820	6.820	(0.844)	1066566	150.000	148.97
	49	Ethyl Methacrylate	69	7.105	7.105	(1.307)	219011	150.000	142.24
	50	Toluene	91	6.880	6.880	(0.851)	1278310	150.000	140.77
	51	trans-1,3-Dichloropropene	75	7.087	7.087	(1.303)	400651	150.000	162.99
	52	2-Hexanone	43	7.480	7.480	(0.925)	448620	300.000	282.56
	53	1,1,2-Trichloroethane	83	7.244	7.244	(0.896)	218948	150.000	141.03
	54	1,3-Dichloropropane	76	7.386	7.386	(0.914)	471016	150.000	138.24
	55	Dibromochloromethane	129	7.581	7.581	(0.938)	281281	150.000	153.68
	56	Tetrachloroethene	164	7.368	7.368	(0.911)	240709	150.000	151.48
	57	1,2-Dibromoethane	107	7.671	7.671	(0.949)	242167	150.000	141.88
	58	1-Chlorohexane	55	8.106	8.106	(1.491)	317836	150.000	151.25
	59	Chlorobenzene	112	8.110	8.110	(1.003)	761134	150.000	141.75
	60	1,1,1,2-Tetrachloroethane	131	8.185	8.185	(1.013)	278056	150.000	149.70
	61	Ethylbenzene	106	8.211	8.211	(1.016)	411290	150.000	151.62
	62	m,p-Xylenes	106	8.316	8.316	(1.029)	1039493	300.000	298.55
	63	o-Xylene	106	8.653	8.653	(1.070)	504871	150.000	150.29
	64	Styrene	104	8.665	8.665	(1.072)	906720	150.000	167.19
	66	Bromoform	173	8.811	8.811	(1.090)	189312	150.000	152.71
	67	Isopropylbenzene	105	8.972	8.972	(1.110)	1299062	150.000	153.63
	68	1,1,2,2-Tetrachloroethane	83	9.220	9.220	(0.916)	330592	150.000	127.44
$	69	4-Bromofluorobenzene	95	9.092	9.092	(1.125)	384798	150.000	146.04
*	70	1,4-Dichlorobenzene-d4	152	10.070	10.070	(1.000)	171173	50.0000	
	71	1,2,3-Trichloropropane	75	9.253	9.253	(0.919)	363407	150.000	148.00
	72	trans-1,4-Dichloro-2-butene	53	9.268	9.268	(1.147)	85250	150.000	142.86
	73	n-Propylbenzene	91	9.321	9.321	(0.926)	1522684	150.000	142.43
	74	Bromobenzene	156	9.216	9.216	(0.915)	342603	150.000	137.34
	75	1,3,5-Trimethylbenzene	105	9.474	9.474	(0.941)	1107901	150.000	149.55
	76	2-Chlorotoluene	91	9.388	9.388	(0.932)	924875	150.000	137.13
	77	4-Chlorotoluene	91	9.478	9.478	(0.941)	1078660	150.000	139.16

78	tert-Butylbenzene	119	9.748	9.748 (0.968)	908343	150.000	147.10
79	1,2,4-Trimethylbenzene	105	9.786	9.786 (0.972)	1122463	150.000	149.24

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	81 sec-Butylbenzene	105	9.932	9.932	(0.986)	1307011	150.000	154.60
	82 p-Isopropyltoluene	119	10.059	10.059	(0.999)	1140491	150.000	158.01
	83 1,3-Dichlorobenzene	146	10.018	10.018	(0.995)	648023	150.000	143.02
	84 1,4-Dichlorobenzene	146	10.093	10.093	(1.002)	673092	150.000	139.30
	87 n-Butylbenzene	91	10.400	10.400	(1.033)	1068354	150.000	149.80
	88 1,2-Dichlorobenzene	146	10.404	10.404	(1.033)	631341	150.000	140.64
	89 1,2-Dibromo-3-Chloropropane	155	11.056	11.056	(1.098)	50400	150.000	132.82
	90 1,2,4-Trichlorobenzene	180	11.754	11.754	(1.167)	427837	150.000	150.65
	91 Hexachlorobutadiene	225	11.907	11.907	(1.182)	202429	150.000	151.23
	92 Naphthalene	128	11.956	11.956	(1.187)	953675	150.000	145.82
	93 1,2,3-Trichlorobenzene	180	12.162	12.162	(1.208)	363817	150.000	142.11
	135 1,4-Dioxane	88	6.044	6.044	(1.287)	39025	3000.00	2890.18(M)
	130 Ethyl Acetate	43	4.189	4.189	(0.892)	351175	150.000	146.51
	136 n-Hexane	57	3.259	3.259	(0.694)	417073	150.000	173.23
	138 Freon TF	101	2.277	2.277	(0.485)	252702	150.000	150.24
	139 Diethyl ether	59	2.821	2.821	(0.601)	352139	150.000	138.64(M)
	141 Cyclohexane	56	4.684	4.684	(0.998)	539489	150.000	158.34(A)
	142 Tetrahydrofuran	42	4.395	4.395	(0.936)	88463	300.000	278.22
	146 Methyl Acetate	43	2.611	2.611	(0.556)	386809	150.000	137.72
	147 Methylcyclohexane	55	5.864	5.864	(1.079)	535065	150.000	154.07(AM)
	148 Tert-butyl alcohol	59	2.821	2.821	(0.601)	375294	3000.00	2910.48
	149 Isopropyl alcohol	45	2.446	2.446	(0.521)	242622	3000.00	2878.50
	151 4-Methyl-2-pentanol	45	7.105	7.105	(1.307)	1585264	3000.00	2805.97(M)
	156 Diisopropyl ether	45	3.503	3.503	(0.746)	1277810	150.000	142.14
	158 Dichlorofluoromethane	67	1.808	1.808	(0.385)	498230	150.000	153.79
	166 1,2,3-Trimethylbenzene	105	10.142	10.142	(1.007)	1020898	150.000	150.43
	160 2-Methylnaphthalene	142	12.904	12.904	(1.281)	445591	150.000	147.57
	180 1-Methylnaphthalene	142	13.062	13.062	(1.297)	366648	150.000	144.94
	174 tert-Amyl methyl ether	73	5.171	5.171	(1.101)	892640	150.000	153.37
	175 tert-Butyl ethyl ether	59	3.915	3.915	(0.834)	986649	150.000	148.49
	132 n-Butanol	56	5.864	5.864	(1.249)	165970	3000.00	3071.84
	140 1,3-Butadiene	54	1.381	1.381	(0.294)	138567	150.000	162.50
	189 n-Butyl acetate	43	7.608	7.608	(0.941)	578779	150.000	146.64(M)
	86 Benzyl Chloride	91	10.400	10.400	(1.287)	1068354	150.000	164.21
	182 Epichlorohydrin	57	6.506	6.506	(1.196)	43870	600.000	635.89
	150 Allyl alcohol	57	3.488	3.488	(0.743)	67542	3000.00	2878.16
	162 Butyl acrylate	55	8.638	8.638	(1.069)	757554	150.000	146.85
	194 Acetaldehyde	44	1.430	1.430	(0.305)	467050	600.000	573.93
	131 Methyl Acrylate	55	4.215	4.215	(0.898)	284352	150.000	149.93
	133 Ethyl Acrylate	55	5.823	5.823	(1.240)	405292	150.000	164.03(M)
M	94 1,2-Dichloroethylene (total)	96				585190	300.000	(a)
M	95 Xylenes (total)	106				1544364	450.000	(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
    exceeded maximum amount.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa10,i\G240228,b\F022810,D
Date : 28-FEB-2024 19:57
Client ID: VSTD150
Sample Info: VSTD150;VSTD150;1;9;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa10,i
Operator: FT
Column diameter: 0.18

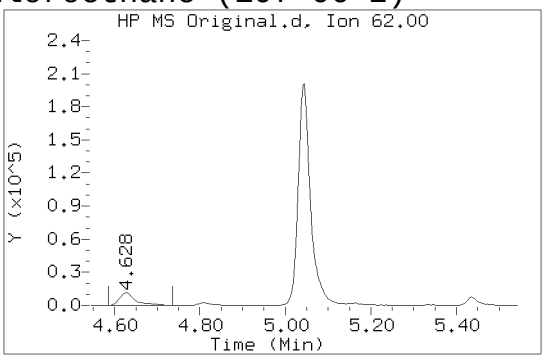
Data File : \\NAHSTWS005\Target\chem\voa10.i\G240228.b\F022810.D
Inj Date : 28-FEB-2024 19:57
InstruID : voa10.i
LabSampID : VSTD150

1,2-Dichloroethane (107-06-2)

Reason Code:

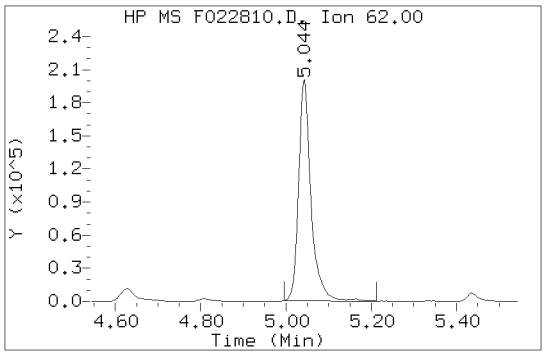
BEFORE

MASS
62
AREA
29669
HEIGHT
11771
28-Feb-2024
20:13
ALSHS
Server



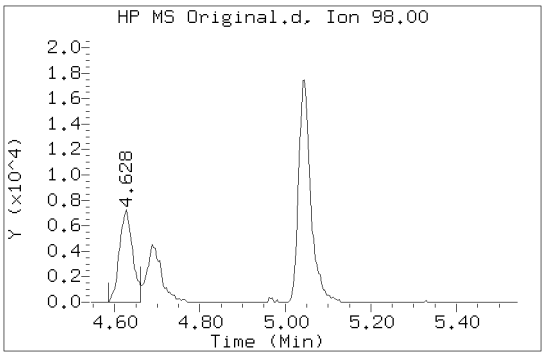
AFTER

MASS
62
AREA
413136
HEIGHT
200639
11-Mar-2024
13:58
ALSHS
Ser



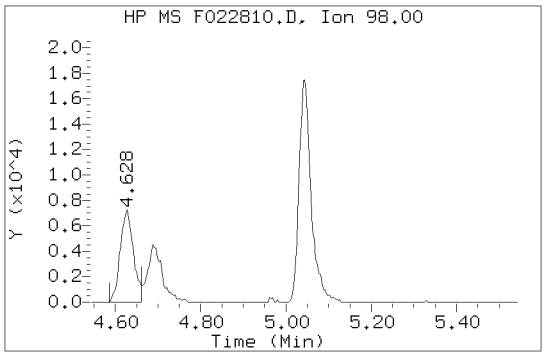
BEFORE

MASS
98
AREA
15637
HEIGHT
7260
28-Feb-2024
20:13
ALSHS
Server



AFTER

MASS
98
AREA
15637
HEIGHT
7260
11-Mar-2024
13:58
ALSHS
Ser

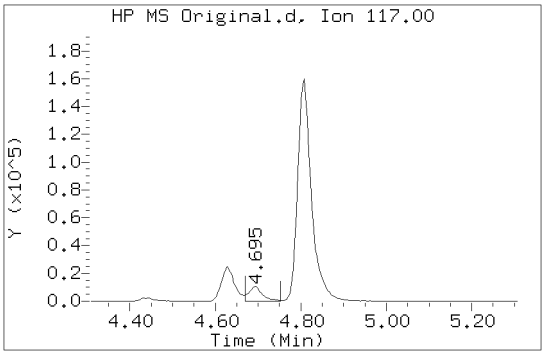


Carbon Tetrachloride (56-23-5)

Reason Code:

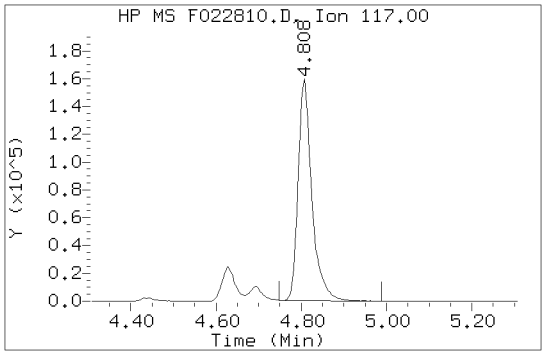
BEFORE

MASS
117
AREA
23561
HEIGHT
10451
28-Feb-2024
20:13
ALSHS
Server



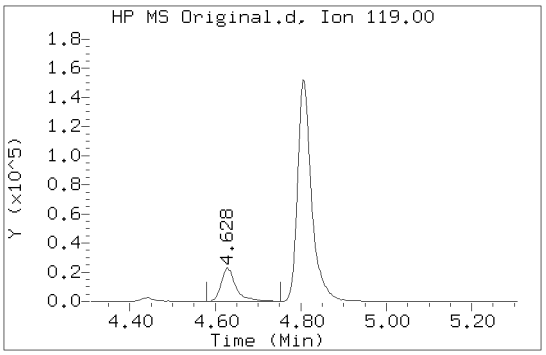
AFTER

MASS
117
AREA
362985
HEIGHT
159526
11-Mar-2024
13:58
ALSHS
Ser



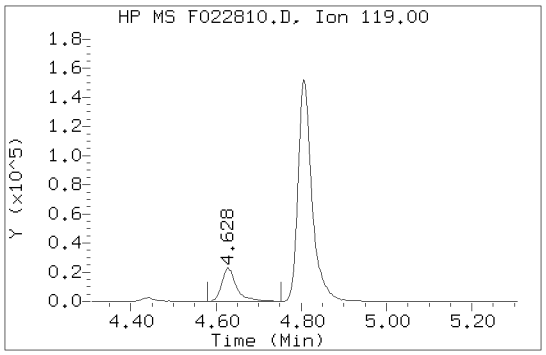
BEFORE

MASS
119
AREA
54498
HEIGHT
23520
28-Feb-2024
20:13
ALSHS
Server



AFTER

MASS
119
AREA
54498
HEIGHT
23520
11-Mar-2024
13:58
ALSHS
Ser



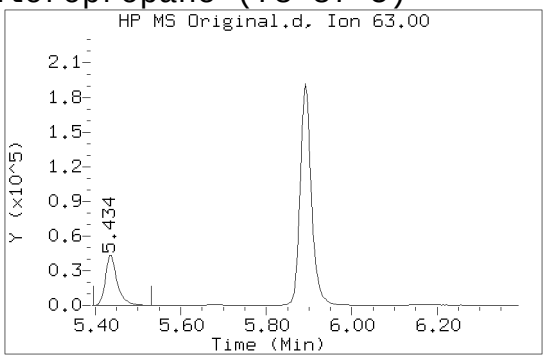
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Inj Date : 28-FEB-2024 19:57
InstruID : voa10.i
LabSampID : VSTD150

1,2-Dichloropropane (78-87-5)

Reason Code:

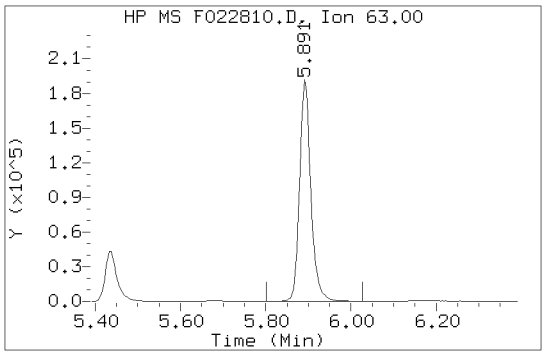
BEFORE

MASS
63
AREA
82982
HEIGHT
43448
28-Feb-2024
20:13
ALSHS
Server



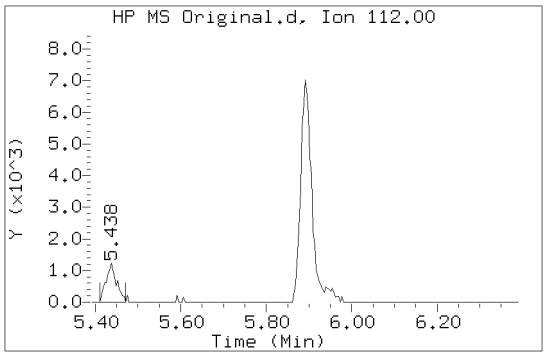
AFTER

MASS
63
AREA
358198
HEIGHT
191872
11-Mar-2024
13:58
ALSHS
Ser



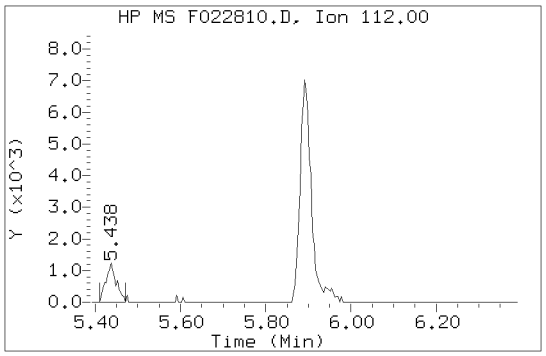
BEFORE

MASS
112
AREA
2072
HEIGHT
1240
28-Feb-2024
20:13
ALSHS
Server



AFTER

MASS
112
AREA
2072
HEIGHT
1240
11-Mar-2024
13:58
ALSHS
Ser

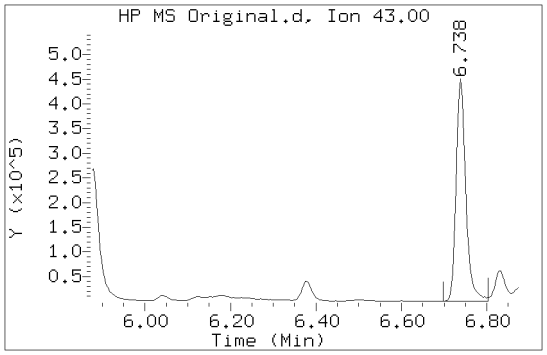


2-Nitropropane (79-46-9)

Reason Code:

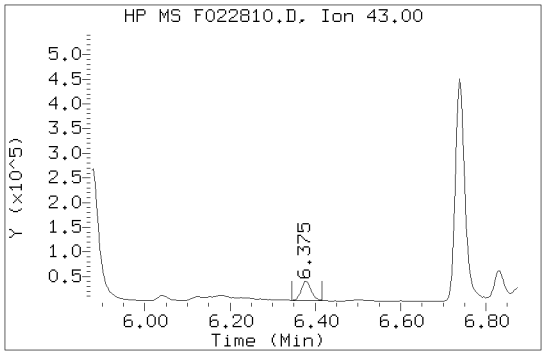
BEFORE

MASS
43
AREA
708560
HEIGHT
450229
28-Feb-2024
20:13
ALSHS
Server



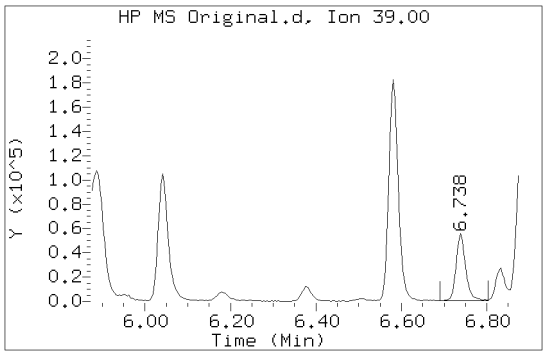
AFTER

MASS
43
AREA
63226
HEIGHT
39183
11-Mar-2024
13:58
ALSHS
Ser



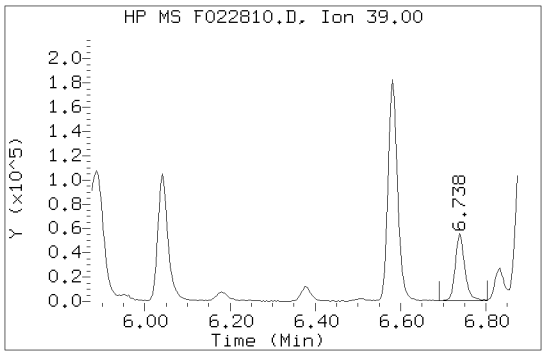
BEFORE

MASS
39
AREA
85862
HEIGHT
55485
28-Feb-2024
20:13
ALSHS
Server



AFTER

MASS
39
AREA
85862
HEIGHT
55485
11-Mar-2024
13:58
ALSHS
Ser



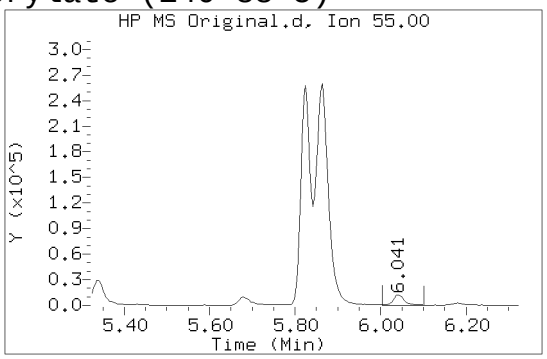
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Inj Date : 28-FEB-2024 19:57
InstruID : voa10.i
LabSampID : VSTD150

Ethyl Acrylate (140-88-5)

Reason Code:

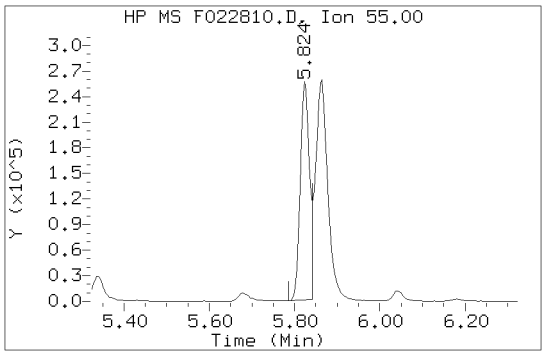
BEFORE

MASS
55
AREA
20851
HEIGHT
11662
28-Feb-2024
20:13
ALSHS
Server



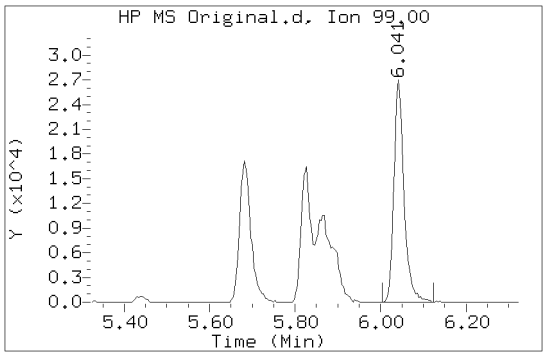
AFTER

MASS
55
AREA
405292
HEIGHT
255996
11-Mar-2024
13:58
ALSHS
Ser



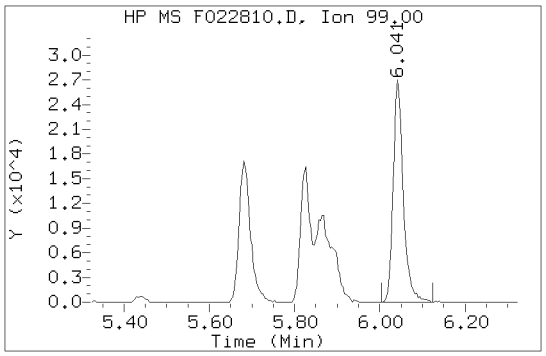
BEFORE

MASS
99
AREA
44335
HEIGHT
26992
28-Feb-2024
20:13
ALSHS
Server



AFTER

MASS
99
AREA
44335
HEIGHT
26992
11-Mar-2024
13:58
ALSHS
Ser

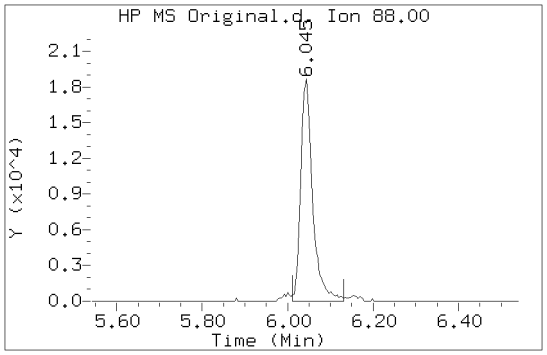


1,4-Dioxane ()

Reason Code:

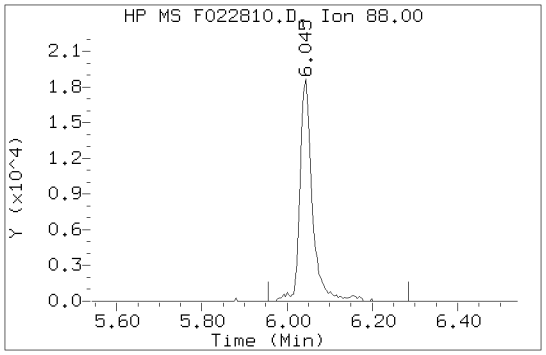
BEFORE

MASS
88
AREA
37218
HEIGHT
18680
28-Feb-2024
20:13
ALSHS
Server



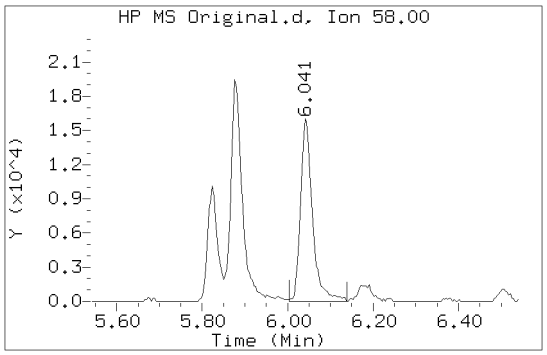
AFTER

MASS
88
AREA
39025
HEIGHT
18680
11-Mar-2024
13:58
ALSHS
Ser



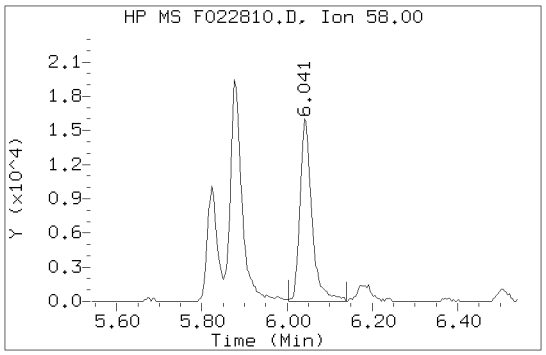
BEFORE

MASS
58
AREA
31826
HEIGHT
16000
28-Feb-2024
20:13
ALSHS
Server



AFTER

MASS
58
AREA
31826
HEIGHT
16000
11-Mar-2024
13:58
ALSHS
Ser

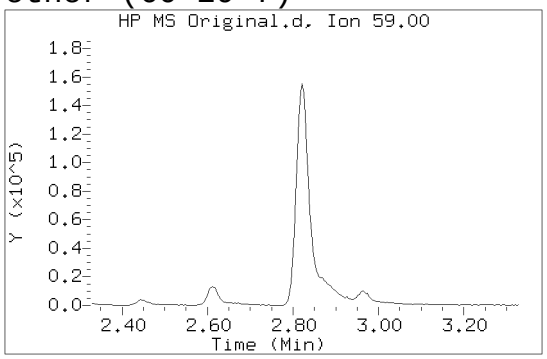


Data File : \\NAHSTWS005\Target\chem\voa10.i\G240228.b\F022810.D
Inj Date : 28-FEB-2024 19:57
InstruID : voa10.i
LabSampID : VSTD150

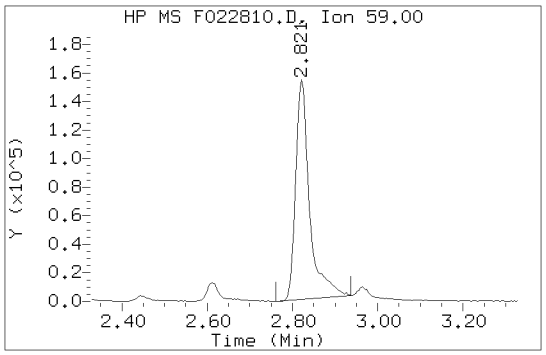
Diethyl ether (60-29-7)

Reason Code:

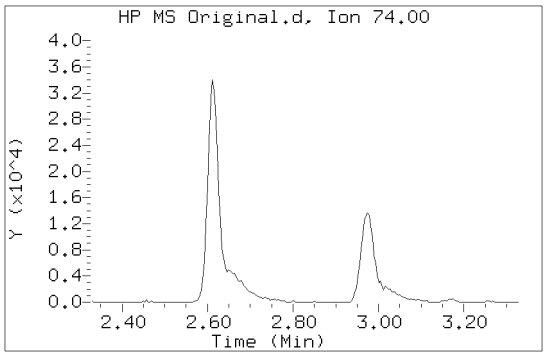
BEFORE
MASS
59
AREA
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HEIGHT
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28-Feb-2024
20:13
ALSHS
Server



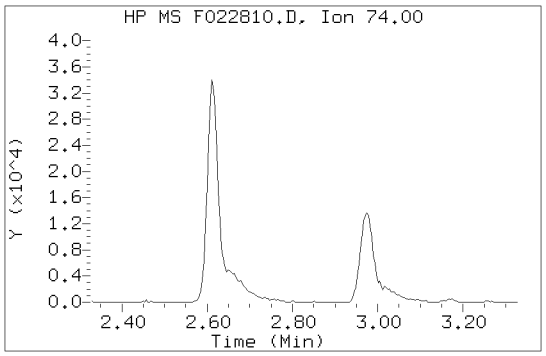
AFTER
MASS
59
AREA
352139
HEIGHT
153742
11-Mar-2024
13:58
ALSHS
Ser



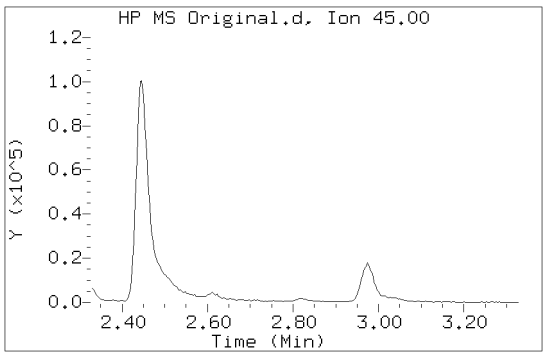
BEFORE
MASS
74
AREA
0
HEIGHT
0
28-Feb-2024
20:13
ALSHS
Server



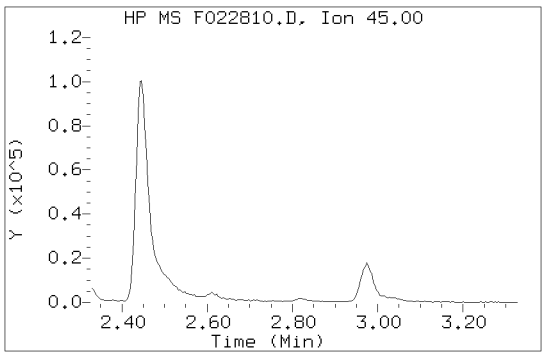
AFTER
MASS
74
AREA
0
HEIGHT
0
11-Mar-2024
13:58
ALSHS
Ser



BEFORE
MASS
45
AREA
0
HEIGHT
0
28-Feb-2024
20:13
ALSHS
Server



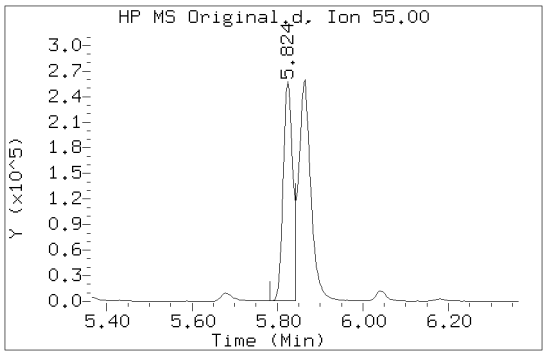
AFTER
MASS
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AREA
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HEIGHT
0
11-Mar-2024
13:58
ALSHS
Ser



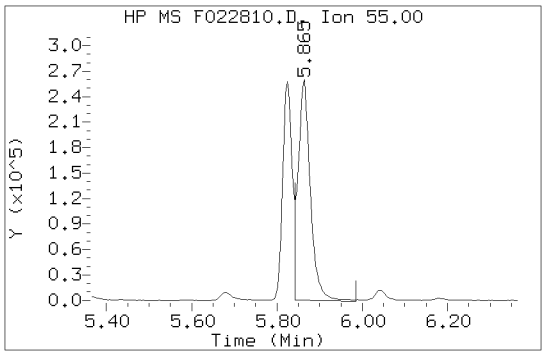
Methylcyclohexane (108-87-2)

Reason Code:

BEFORE
MASS
55
AREA
408099
HEIGHT
257011
28-Feb-2024
20:13
ALSHS
Server



AFTER
MASS
55
AREA
535065
HEIGHT
259884
11-Mar-2024
13:58
ALSHS
Ser



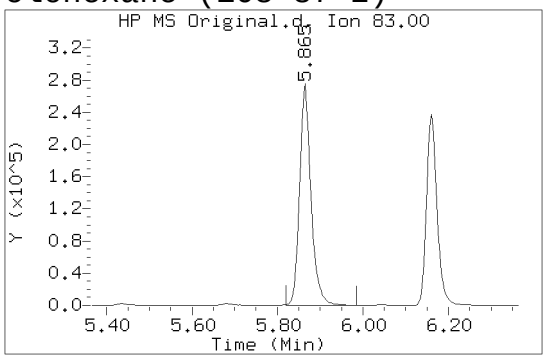
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Inj Date : 28-FEB-2024 19:57
InstruID : voa10.i
LabSampID : VSTD150

Methylcyclohexane (108-87-2)

Reason Code:

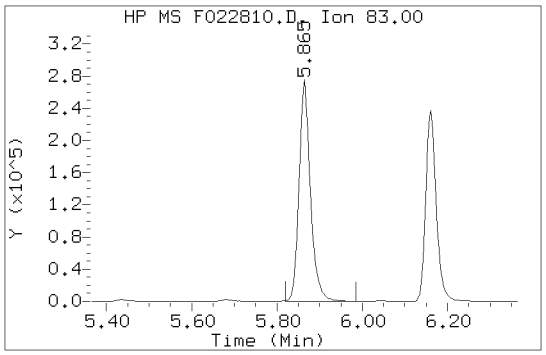
BEFORE

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517128
HEIGHT
275367
28-Feb-2024
20:13
ALSHS
Server



AFTER

MASS
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AREA
517128
HEIGHT
275367
11-Mar-2024
13:58
ALSHS
Ser

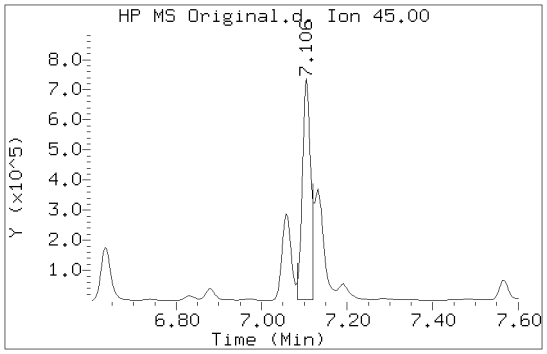


4-Methyl-2-pentanol (108-11-2)

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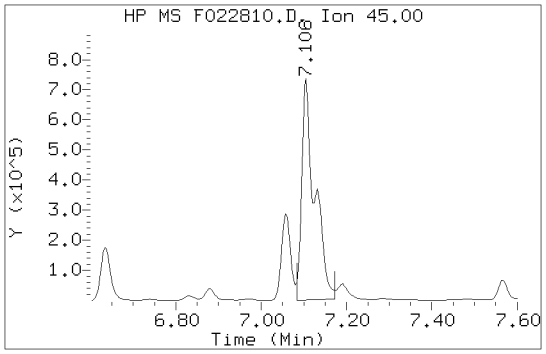
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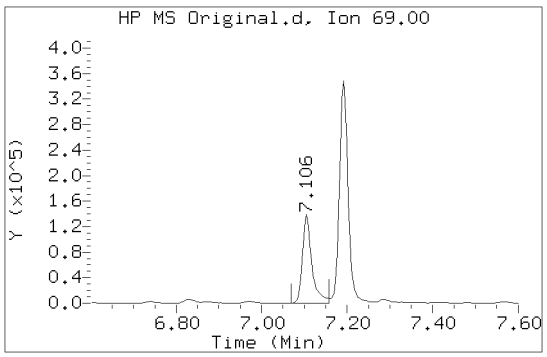
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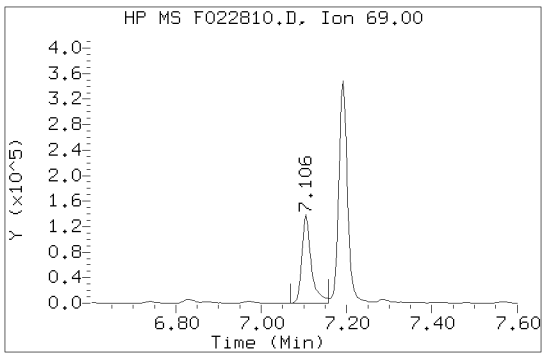
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28-Feb-2024
20:13
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Server



AFTER

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ALSHS
Ser

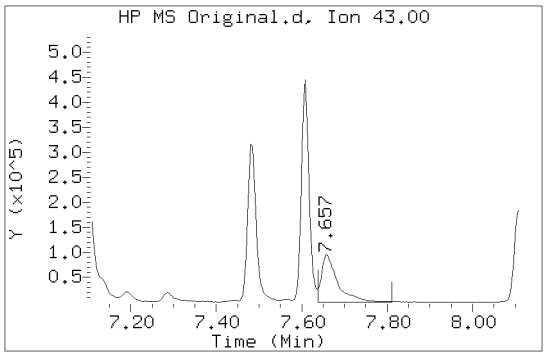


n-Butyl acetate (123-86-4)

Reason Code:

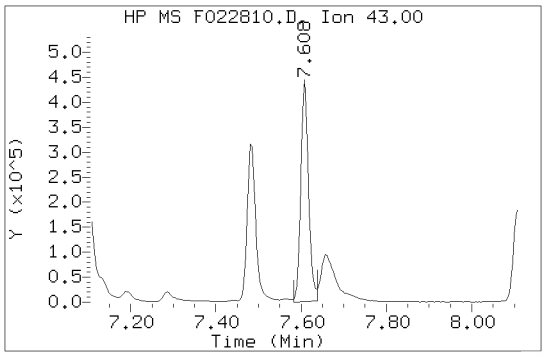
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AFTER

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11-Mar-2024
13:58
ALSHS
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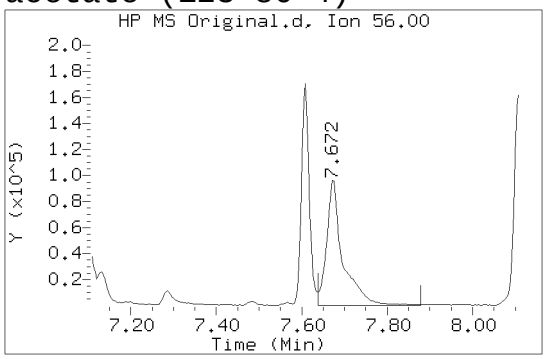
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Inj Date : 28-FEB-2024 19:57
InstruID : voa10.i
LabSampID : VSTD150

n-Butyl acetate (123-86-4)

Reason Code:

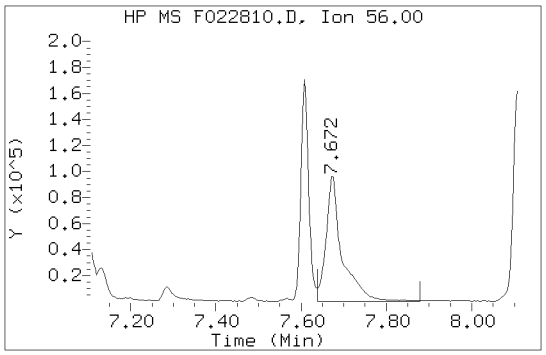
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28-Feb-2024
20:13
ALSHS
Server



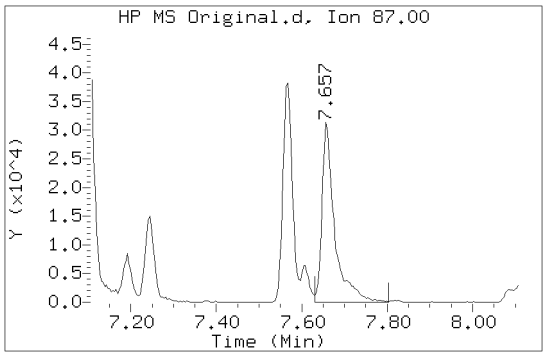
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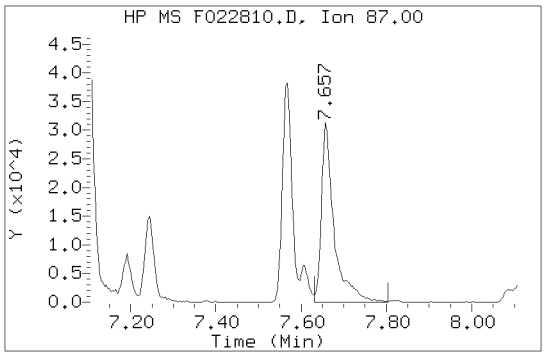
BEFORE

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28-Feb-2024
20:13
ALSHS
Server



AFTER

MASS
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HEIGHT
31400
11-Mar-2024
13:58
ALSHS
Ser



Data File: \\NAHSTWS005\Target\chem\voa10.i\G240228.b\F022811.D Page 1
Report Date: 11-Mar-2024 13:59

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa10.i\G240228.b\F022811.D
Lab Smp Id: VSTD200 Client Smp ID: VSTD200
Inj Date : 28-FEB-2024 20:18
Operator : FT Inst ID: voa10.i
Smp Info : VSTD200;VSTD200;1;10;;
Misc Info : V10;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa10.i\G240228.b\8260W.m
Meth Date : 11-Mar-2024 13:59 voa10.i Quant Type: ISTD
Cal Date : 28-FEB-2024 19:57 Cal File: F022810.D
Als bottle: 11 Calibration Sample, Level: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 01_STD_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.695	4.695	(1.000)	235527	50.0000	
2	Dichlorodifluoromethane	85	1.152	1.152	(0.246)	394000	200.000	193.85
3	Chloromethane	50	1.280	1.280	(0.273)	763804	200.000	178.37
4	Propionitrile	54	4.159	4.159	(0.886)	450222	2000.00	1650.43
5	Vinyl Chloride	62	1.355	1.355	(0.289)	536430	200.000	191.95
6	Bromomethane	94	1.583	1.583	(0.337)	178413	200.000	193.20
7	Chloroethane	64	1.662	1.662	(0.354)	326408	200.000	196.98
8	Trichlorofluoromethane	101	1.857	1.857	(0.396)	546552	200.000	197.77
9	Acrolein	56	3.169	3.169	(0.675)	303315	400.000	428.79(A)
10	Acetone	43	2.318	2.318	(0.494)	315869	400.000	404.44(A)
11	1,1-Dichloroethene	96	2.273	2.273	(0.484)	323751	200.000	192.28
12	Isobutyl Alcohol	43	5.160	5.160	(1.099)	1348995	4000.00	4155.45(A)
13	Acetonitrile	39	2.592	2.592	(0.552)	474035	2000.00	1936.45
14	Allyl Chloride	41	2.592	2.592	(0.552)	757306	200.000	162.09
15	Iodomethane	142	2.397	2.397	(0.511)	618028	400.000	395.00
16	Acrylonitrile	53	2.937	2.937	(0.626)	255955	400.000	387.26
17	Methylene Chloride	84	2.704	2.704	(0.576)	391234	200.000	198.60
18	Methyl tert-butyl ether	73	2.978	2.978	(0.634)	1020093	200.000	180.64
19	Carbon Disulfide	76	2.457	2.457	(0.523)	2244068	400.000	399.09
20	trans-1,2-Dichloroethene	96	2.967	2.967	(0.632)	366982	200.000	184.22

21 Vinyl Acetate	43	3.476	3.476 (0.741)	1796345	400.000	375.16
22 1,1-Dichloroethane	63	3.401	3.401 (0.725)	730583	200.000	179.47

Data File: \\NAHSTWS005\Target\chem\voa10.i\G240228.b\F022811.D Page 2
Report Date: 11-Mar-2024 13:59

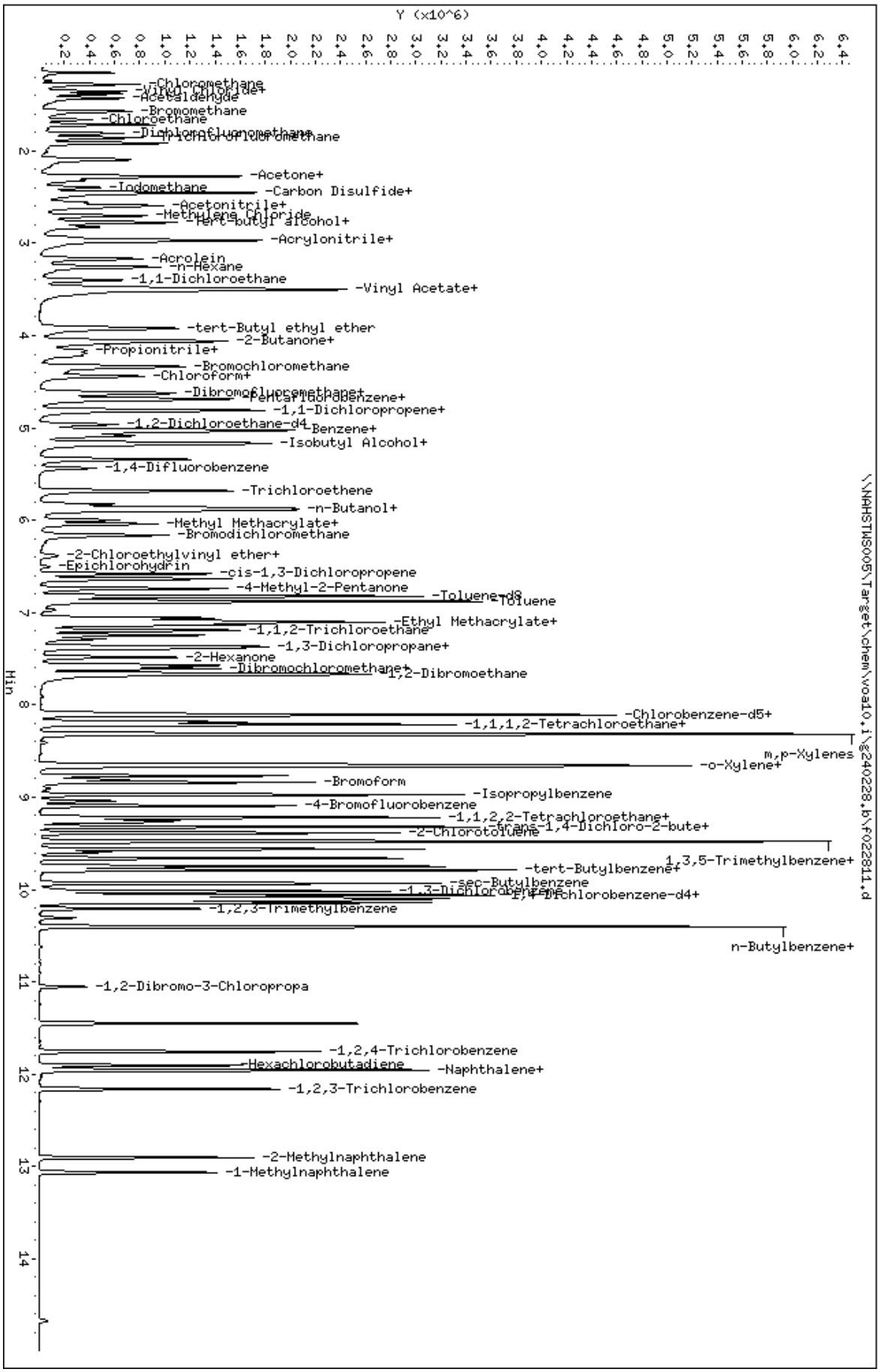
			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
	24	2-Butanone	43	4.095	4.095	(0.872)	321662	400.000	402.48(A)
	25	Methacrylonitrile	41	4.057	4.057	(0.864)	379078	200.000	191.07
	26	2,2-Dichloropropane	77	4.061	4.061	(0.865)	524680	200.000	189.14
	27	cis-1,2-Dichloroethene	96	4.061	4.061	(0.865)	400273	200.000	182.32
	28	Chloroform	83	4.440	4.440	(0.946)	669038	200.000	196.06
	29	Bromochloromethane	128	4.335	4.335	(0.923)	156753	200.000	175.78
$	30	Dibromofluoromethane	113	4.612	4.612	(0.982)	313517	200.000	197.65
	31	1,1,1-Trichloroethane	97	4.631	4.631	(0.986)	568476	200.000	189.57
	32	1,1-Dichloropropene	75	4.811	4.811	(0.885)	573269	200.000	186.13
	33	1,2-Dichloroethane	62	5.043	5.043	(0.928)	542814	200.000	179.53(M)
	34	Carbon Tetrachloride	117	4.807	4.807	(0.884)	447986	200.000	195.47(M)
$	35	1,2-Dichloroethane-d4	65	4.965	4.965	(1.057)	426698	200.000	199.49
*	36	1,4-Difluorobenzene	114	5.437	5.437	(1.000)	350986	50.0000	
	37	Benzene	78	5.021	5.021	(0.923)	1727280	200.000	184.71
	38	Trichloroethene	130	5.681	5.681	(1.045)	395339	200.000	188.69
	39	Bromodichloromethane	83	6.160	6.160	(1.133)	531113	200.000	192.34
	40	Methyl Methacrylate	41	6.041	6.041	(1.287)	440392	200.000	186.26
	42	1,2-Dichloropropane	63	5.891	5.891	(1.083)	466785	200.000	185.08(M)
	43	2-Nitropropane	43	6.378	6.378	(1.358)	78471	200.000	194.85(M)
	44	Dibromomethane	93	5.996	5.996	(1.103)	215993	200.000	193.57
	45	4-Methyl-2-Pentanone	43	6.738	6.738	(0.834)	969433	400.000	403.19(A)
	46	cis-1,3-Dichloropropene	75	6.580	6.580	(1.210)	657322	200.000	208.62(A)
*	47	Chlorobenzene-d5	117	8.084	8.084	(1.000)	295783	50.0000	
$	48	Toluene-d8	98	6.820	6.820	(0.844)	1399211	200.000	200.23(A)
	49	Ethyl Methacrylate	69	7.105	7.105	(1.307)	328902	200.000	201.89(A)
	50	Toluene	91	6.880	6.880	(0.851)	1718762	200.000	189.00
	51	trans-1,3-Dichloropropene	75	7.086	7.086	(1.303)	533649	200.000	220.38(A)
	52	2-Hexanone	43	7.484	7.484	(0.926)	625648	400.000	393.49
	53	1,1,2-Trichloroethane	83	7.244	7.244	(0.896)	291496	200.000	187.48
	54	1,3-Dichloropropane	76	7.386	7.386	(0.914)	632300	200.000	185.30
	55	Dibromochloromethane	129	7.581	7.581	(0.938)	378769	200.000	206.65(A)
	56	Tetrachloroethene	164	7.368	7.368	(0.911)	321611	200.000	202.10(A)
	57	1,2-Dibromoethane	107	7.675	7.675	(0.949)	323696	200.000	189.37
	58	1-Chlorohexane	55	8.106	8.106	(1.491)	417233	200.000	201.83(A)
	59	Chlorobenzene	112	8.110	8.110	(1.003)	1025656	200.000	190.74
	60	1,1,1,2-Tetrachloroethane	131	8.185	8.185	(1.013)	369978	200.000	198.90
	61	Ethylbenzene	106	8.215	8.215	(1.016)	548427	200.000	201.88(A)
	62	m,p-Xylenes	106	8.316	8.316	(1.029)	1386820	400.000	397.74
	63	o-Xylene	106	8.653	8.653	(1.070)	675539	200.000	200.81(A)
	64	Styrene	104	8.665	8.665	(1.072)	1227102	200.000	225.94(A)
	66	Bromoform	173	8.811	8.811	(1.090)	257476	200.000	207.39(A)
	67	Isopropylbenzene	105	8.972	8.972	(1.110)	1736033	200.000	205.01(A)
	68	1,1,2,2-Tetrachloroethane	83	9.223	9.223	(0.916)	466807	200.000	175.42
$	69	4-Bromofluorobenzene	95	9.096	9.096	(1.125)	525614	200.000	201.23(A)
*	70	1,4-Dichlorobenzene-d4	152	10.074	10.074	(1.000)	175590	50.0000	
	71	1,2,3-Trichloropropane	75	9.253	9.253	(0.919)	522271	200.000	231.57(A)
	72	trans-1,4-Dichloro-2-butene	53	9.272	9.272	(1.147)	125708	200.000	210.35(A)
	73	n-Propylbenzene	91	9.321	9.321	(0.925)	2150102	200.000	196.06
	74	Bromobenzene	156	9.216	9.216	(0.915)	463288	200.000	181.04
	75	1,3,5-Trimethylbenzene	105	9.474	9.474	(0.940)	1540615	200.000	202.73(A)
	76	2-Chlorotoluene	91	9.388	9.388	(0.932)	1287390	200.000	186.08
	77	4-Chlorotoluene	91	9.478	9.478	(0.941)	1542082	200.000	193.95

78	tert-Butylbenzene	119	9.748	9.748 (0.968)	1236207	200.000	195.15
79	1,2,4-Trimethylbenzene	105	9.789	9.789 (0.972)	1556330	200.000	201.72(A)

						AMOUNTS	
		QUANT SIG				CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT RESPONSE	(ug/l)	(ug/l)
	81 sec-Butylbenzene	105	9.935	9.935	(0.986) 1747169	200.000	201.46(A)
	82 p-Isopropyltoluene	119	10.059	10.059	(0.999) 1544138	200.000	208.55(A)
	83 1,3-Dichlorobenzene	146	10.018	10.018	(0.994) 881676	200.000	189.70
	84 1,4-Dichlorobenzene	146	10.093	10.093	(1.002) 912540	200.000	184.10
	87 n-Butylbenzene	91	10.400	10.400	(1.032) 1449231	200.000	198.09
	88 1,2-Dichlorobenzene	146	10.404	10.404	(1.033) 865125	200.000	187.87
	89 1,2-Dibromo-3-Chloropropane	155	11.052	11.052	(1.097) 70033	200.000	179.67
	90 1,2,4-Trichlorobenzene	180	11.753	11.753	(1.167) 576940	200.000	197.99
	91 Hexachlorobutadiene	225	11.907	11.907	(1.182) 272019	200.000	197.85
	92 Naphthalene	128	11.960	11.960	(1.187) 1289921	200.000	201.15(A)
	93 1,2,3-Trichlorobenzene	180	12.162	12.162	(1.207) 499537	200.000	189.98
	135 1,4-Dioxane	88	6.044	6.044	(1.287) 54882	4000.00	3990.29(M)
	130 Ethyl Acetate	43	4.192	4.192	(0.893) 457492	200.000	187.08
	136 n-Hexane	57	3.259	3.259	(0.694) 531490	200.000	216.37(A)
	138 Freon TF	101	2.281	2.281	(0.486) 321829	200.000	187.55
	139 Diethyl ether	59	2.824	2.824	(0.602) 531696	200.000	205.26(AM)
	141 Cyclohexane	56	4.687	4.687	(0.998) 673588	200.000	194.13(A)
	142 Tetrahydrofuran	42	4.395	4.395	(0.936) 116121	400.000	357.97
	146 Methyl Acetate	43	2.614	2.614	(0.557) 503498	200.000	175.71
	147 Methylcyclohexane	55	5.864	5.864	(1.079) 657320	200.000	192.13(AM)
	148 Tert-butyl alcohol	59	2.824	2.824	(0.602) 500600	4000.00	4012.51(A)
	149 Isopropyl alcohol	45	2.449	2.449	(0.522) 336239	4000.00	4034.11(A)
	151 4-Methyl-2-pentanol	45	7.105	7.105	(1.307) 2316308	4000.00	4148.74(A)
	156 Diisopropyl ether	45	3.503	3.503	(0.746) 1664776	200.000	181.51
	158 Dichlorofluoromethane	67	1.808	1.808	(0.385) 629677	200.000	190.52
	166 1,2,3-Trimethylbenzene	105	10.142	10.142	(1.007) 1365353	200.000	196.42
	160 2-Methylnaphthalene	142	12.904	12.904	(1.281) 635062	200.000	200.20(A)
	180 1-Methylnaphthalene	142	13.062	13.062	(1.297) 521842	200.000	201.15(A)
	174 tert-Amyl methyl ether	73	5.175	5.175	(1.102) 1178022	200.000	198.39
	175 tert-Butyl ethyl ether	59	3.919	3.919	(0.835) 1291026	200.000	190.45
	132 n-Butanol	56	5.864	5.864	(1.249) 202191	4000.00	3668.02
	140 1,3-Butadiene	54	1.381	1.381	(0.294) 182801	200.000	210.12(A)
	189 n-Butyl acetate	43	7.607	7.607	(0.941) 788852	200.000	199.24(M)
	86 Benzyl Chloride	91	10.400	10.400	(1.287) 1449231	200.000	222.43(A)
	182 Epichlorohydrin	57	6.505	6.505	(1.196) 51372	800.000	774.74
	150 Allyl alcohol	57	3.488	3.488	(0.743) 97855	4000.00	4075.49(A)
	162 Butyl acrylate	55	8.638	8.638	(1.069) 1051848	200.000	202.76(A)
	194 Acetaldehyde	44	1.430	1.430	(0.305) 646462	800.000	812.24(A)
	131 Methyl Acrylate	55	4.219	4.219	(0.899) 360121	200.000	186.12(M)
	133 Ethyl Acrylate	55	5.823	5.823	(1.240) 525100	200.000	208.31(TAM)
M	94 1,2-Dichloroethylene (total)	96			767255	400.000	(a)
M	95 Xylenes (total)	106			2062359	600.000	(a)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
    exceeded maximum amount.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa10.i\g240228.b\f022811.d
Date : 28-FEB-2024 20:18
Client ID: VSTD200
Sample Info: VSTD200;VSTD200;1;10;;
Purge Volume: 5.0
Column phase: DB624

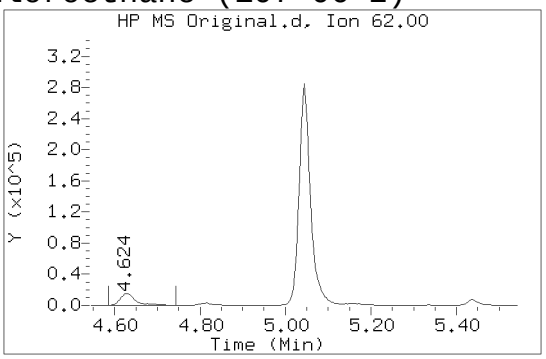
Instrument: voa10.i
Operator: FT
Column diameter: 0.18

Data File : \\nahstws005\target\chem\voa10.i\g240228.b\f022811.d
Inj Date : 28-FEB-2024 20:18
InstruID : voa10.i
LabSampID : VSTD200

1,2-Dichloroethane (107-06-2)

BEFORE

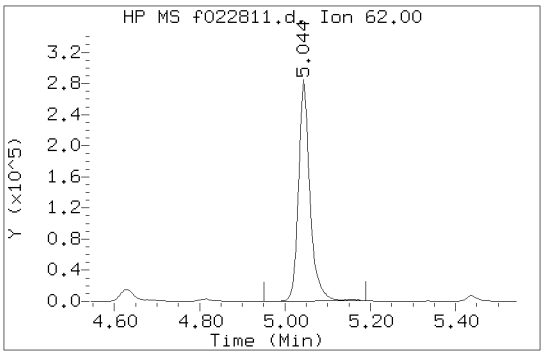
MASS
62
AREA
37708
HEIGHT
15103
28-Feb-2024
20:35
ALSHS
Server



Reason Code:

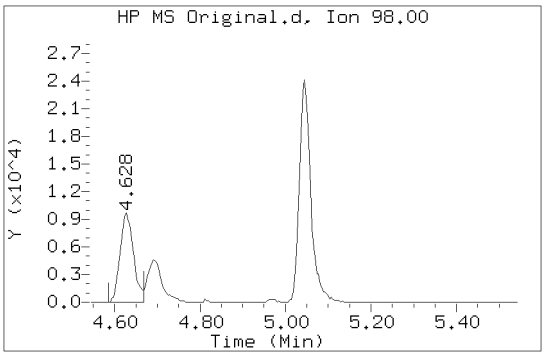
AFTER

MASS
62
AREA
542814
HEIGHT
284638
11-Mar-2024
18:39
ALSHS
Ser



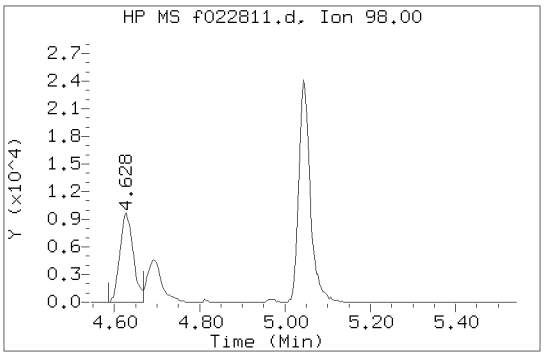
BEFORE

MASS
98
AREA
21232
HEIGHT
9672
28-Feb-2024
20:35
ALSHS
Server



AFTER

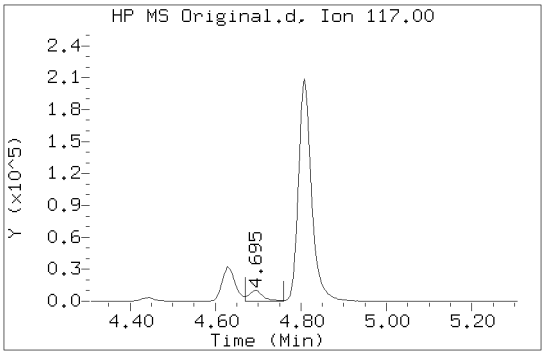
MASS
98
AREA
21232
HEIGHT
9672
11-Mar-2024
18:39
ALSHS
Ser



Carbon Tetrachloride (56-23-5)

BEFORE

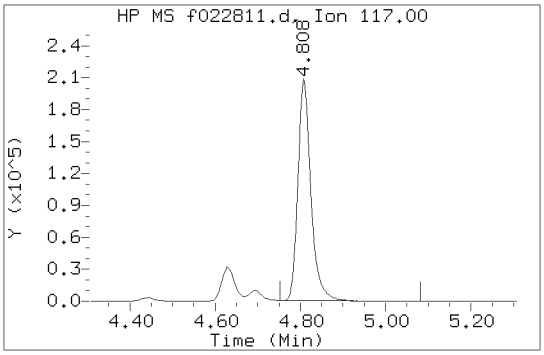
MASS
117
AREA
23598
HEIGHT
10433
28-Feb-2024
20:35
ALSHS
Server



Reason Code:

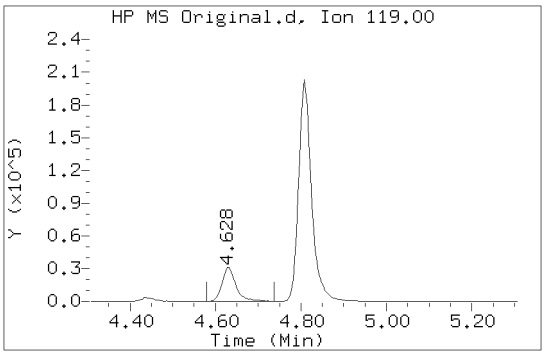
AFTER

MASS
117
AREA
447986
HEIGHT
208418
11-Mar-2024
18:39
ALSHS
Ser



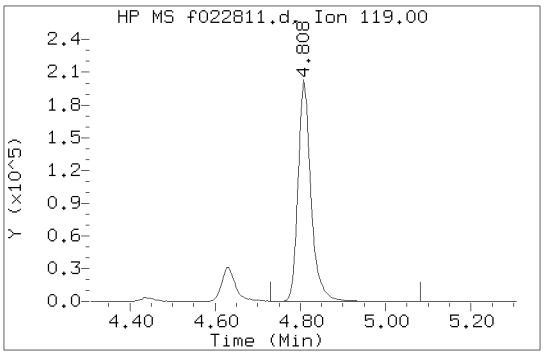
BEFORE

MASS
119
AREA
70510
HEIGHT
30992
28-Feb-2024
20:35
ALSHS
Server



AFTER

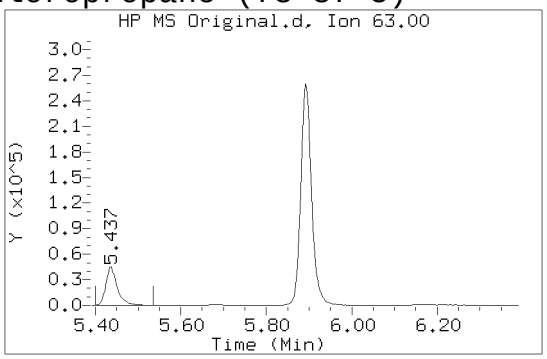
MASS
119
AREA
431022
HEIGHT
202937
11-Mar-2024
18:39
ALSHS
Ser



Data File : \\nahstws005\target\chem\voa10.i\g240228.b\f022811.d
Inj Date : 28-FEB-2024 20:18
InstruID : voa10.i
LabSampID : VSTD200

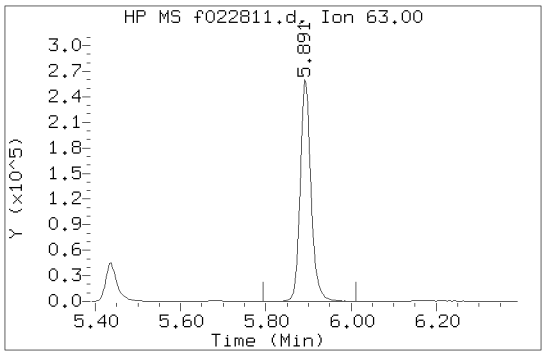
1,2-Dichloropropane (78-87-5)

BEFORE
MASS
63
AREA
83199
HEIGHT
45424
28-Feb-2024
20:35
ALSHS
Server

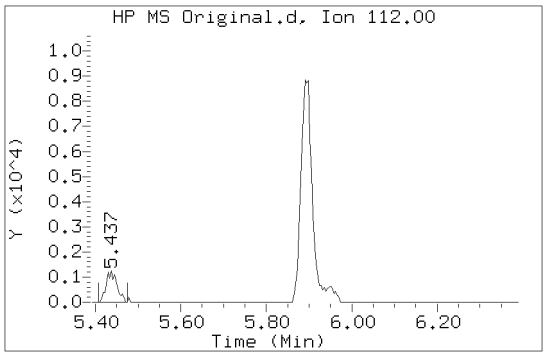


Reason Code:

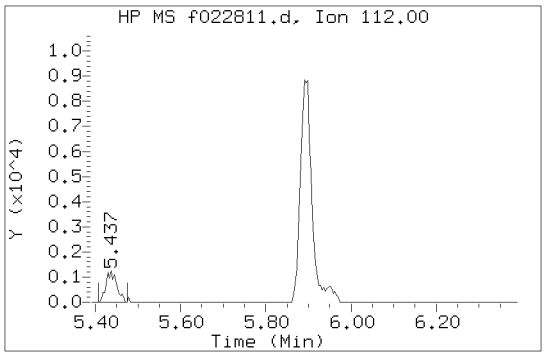
AFTER
MASS
63
AREA
466785
HEIGHT
259999
11-Mar-2024
18:39
ALSHS
Ser



BEFORE
MASS
112
AREA
2150
HEIGHT
1252
28-Feb-2024
20:35
ALSHS
Server

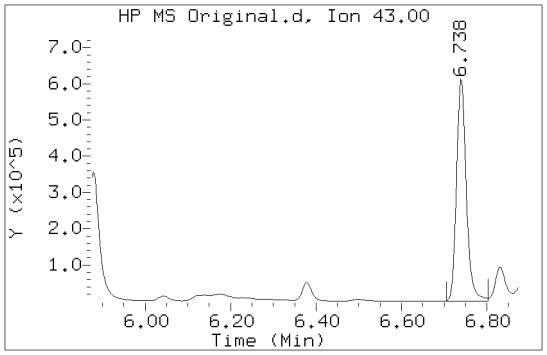


AFTER
MASS
112
AREA
2150
HEIGHT
1252
11-Mar-2024
18:39
ALSHS
Ser



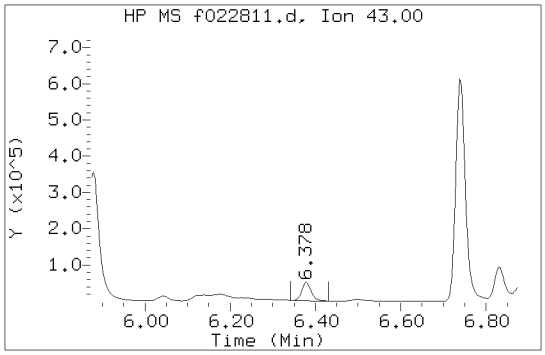
2-Nitropropane (79-46-9)

BEFORE
MASS
43
AREA
969433
HEIGHT
612229
28-Feb-2024
20:35
ALSHS
Server

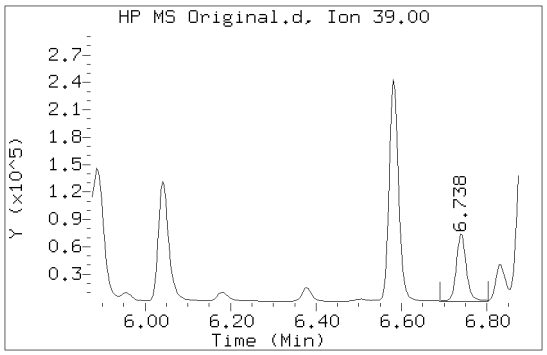


Reason Code:

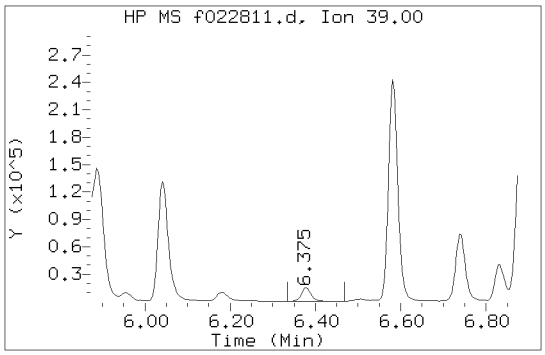
AFTER
MASS
43
AREA
78471
HEIGHT
51252
11-Mar-2024
18:39
ALSHS
Ser



BEFORE
MASS
39
AREA
118306
HEIGHT
73362
28-Feb-2024
20:35
ALSHS
Server

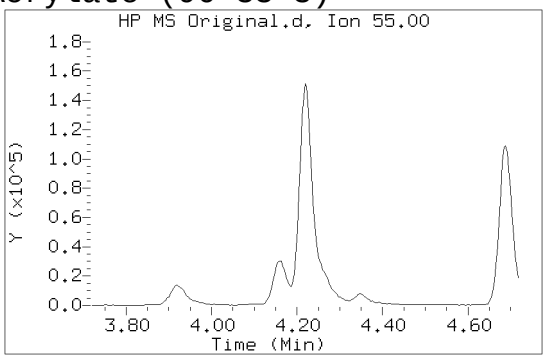


AFTER
MASS
39
AREA
24302
HEIGHT
14738
11-Mar-2024
18:39
ALSHS
Ser

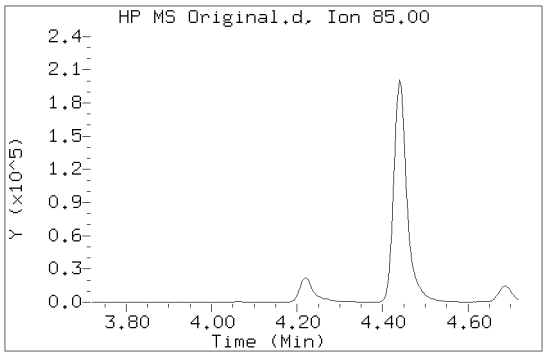


Data File : \\nahstws005\target\chem\voa10.i\g240228.b\f022811.d
Inj Date : 28-FEB-2024 20:18
InstruID : voa10.i
LabSampID : VSTD200

Methyl Acrylate (96-33-3)

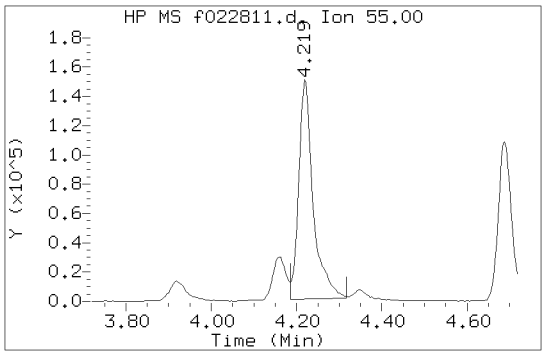


BEFORE
MASS
55
AREA
0
HEIGHT
0
28-Feb-2024
20:35
ALSHS
Server

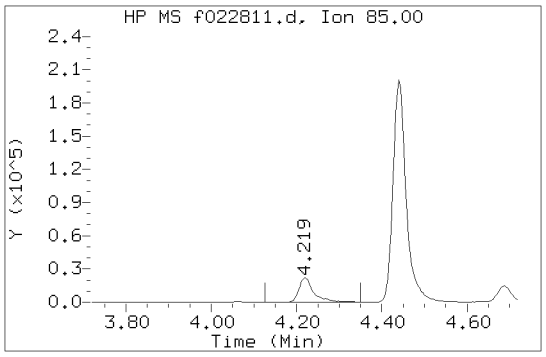


BEFORE
MASS
85
AREA
0
HEIGHT
0
28-Feb-2024
20:35
ALSHS
Server

Reason Code:

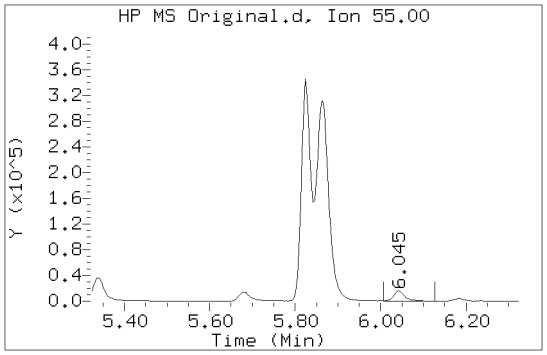


AFTER
MASS
55
AREA
360121
HEIGHT
149824
11-Mar-2024
18:39
ALSHS
Ser

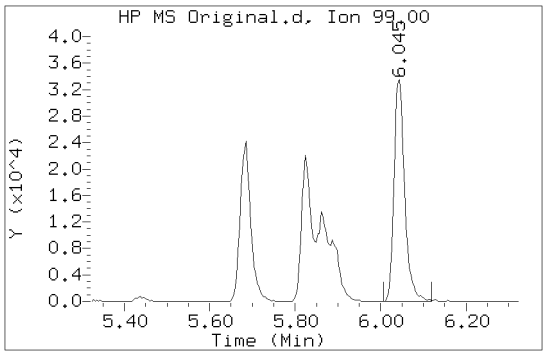


AFTER
MASS
85
AREA
54171
HEIGHT
22240
11-Mar-2024
18:39
ALSHS
Ser

Ethyl Acrylate (140-88-5)

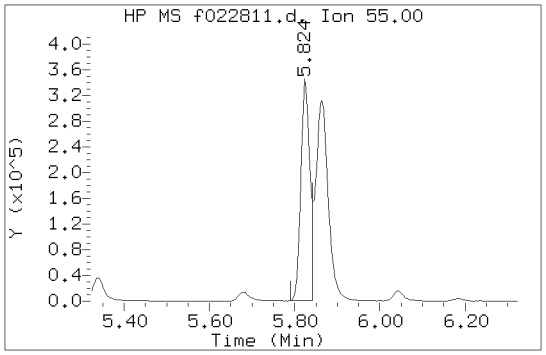


BEFORE
MASS
55
AREA
28044
HEIGHT
16160
28-Feb-2024
20:35
ALSHS
Server

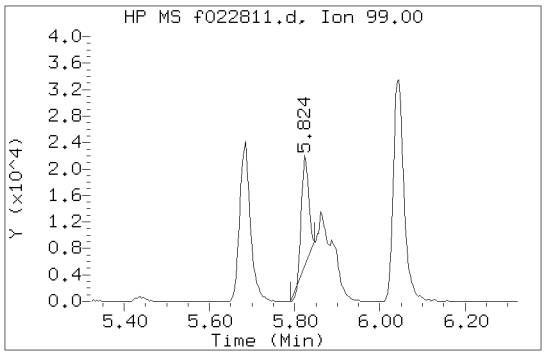


BEFORE
MASS
99
AREA
58195
HEIGHT
33496
28-Feb-2024
20:35
ALSHS
Server

Reason Code:



AFTER
MASS
55
AREA
525100
HEIGHT
345362
11-Mar-2024
18:39
ALSHS
Ser



AFTER
MASS
99
AREA
19209
HEIGHT
16706
11-Mar-2024
18:39
ALSHS
Ser

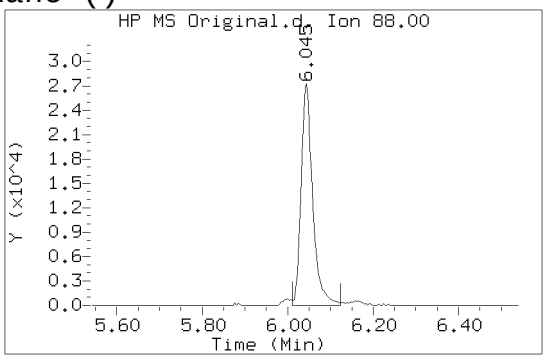
Data File : \\nahstws005\target\chem\voa10.i\g240228.b\f022811.d
Inj Date : 28-FEB-2024 20:18
InstruID : voa10.i
LabSampID : VSTD200

1,4-Dioxane ()

Reason Code:

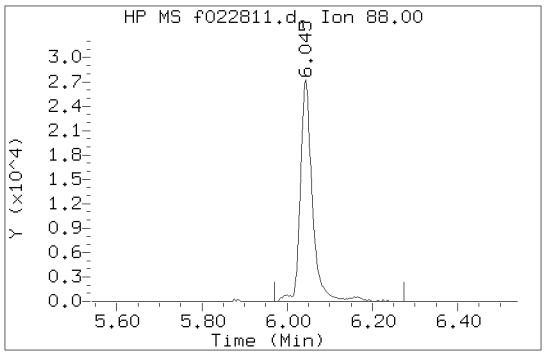
BEFORE

MASS
88
AREA
52343
HEIGHT
27264
28-Feb-2024
20:35
ALSHS
Server



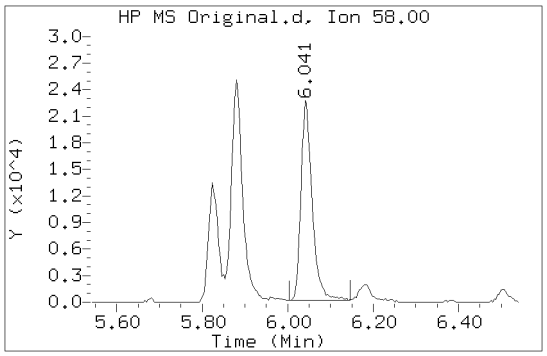
AFTER

MASS
88
AREA
54882
HEIGHT
27264
11-Mar-2024
18:39
ALSHS
Ser



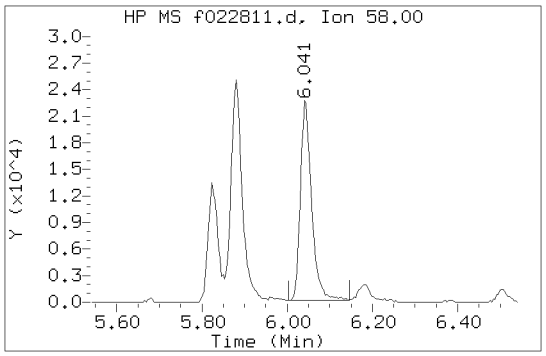
BEFORE

MASS
58
AREA
42299
HEIGHT
22611
28-Feb-2024
20:35
ALSHS
Server



AFTER

MASS
58
AREA
42299
HEIGHT
22611
11-Mar-2024
18:39
ALSHS
Ser

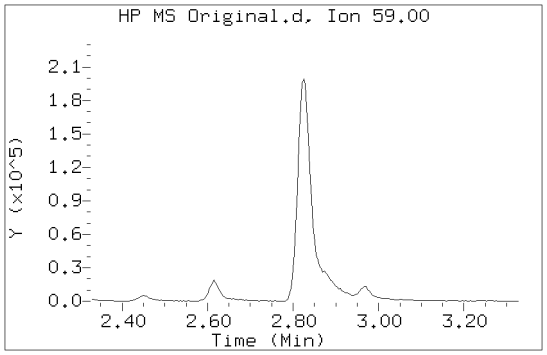


Diethyl ether (60-29-7)

Reason Code:

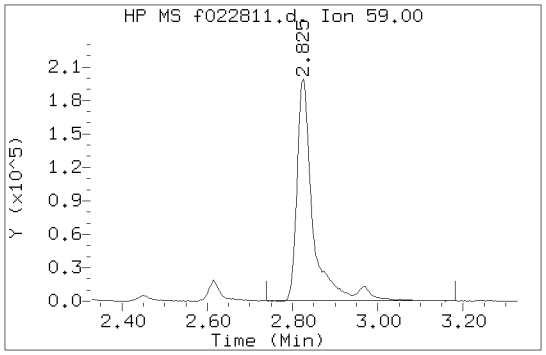
BEFORE

MASS
59
AREA
0
HEIGHT
0
28-Feb-2024
20:35
ALSHS
Server



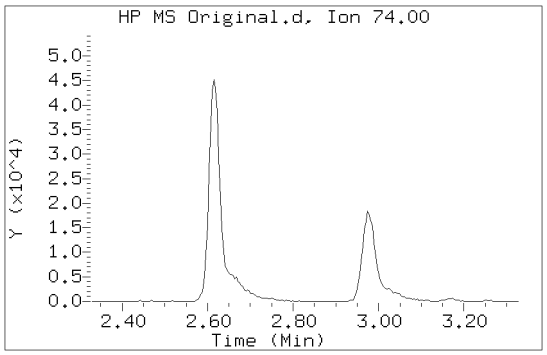
AFTER

MASS
59
AREA
531696
HEIGHT
199037
11-Mar-2024
18:39
ALSHS
Ser



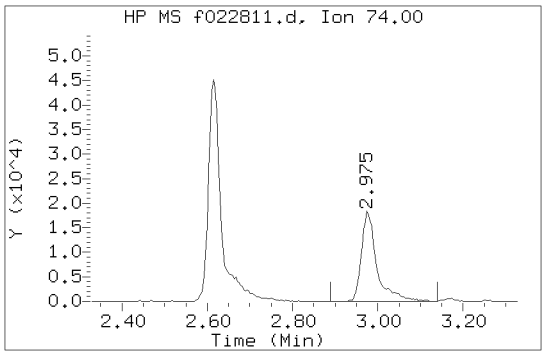
BEFORE

MASS
74
AREA
0
HEIGHT
0
28-Feb-2024
20:35
ALSHS
Server



AFTER

MASS
74
AREA
45840
HEIGHT
18376
11-Mar-2024
18:39
ALSHS
Ser

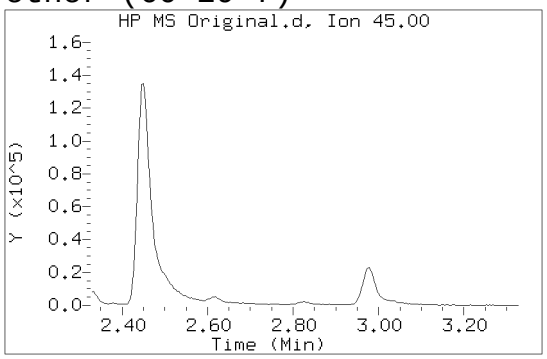


Data File : \\nahstws005\target\chem\voa10.i\g240228.b\f022811.d
Inj Date : 28-FEB-2024 20:18
InstruID : voa10.i
LabSampID : VSTD200

Diethyl ether (60-29-7)

BEFORE

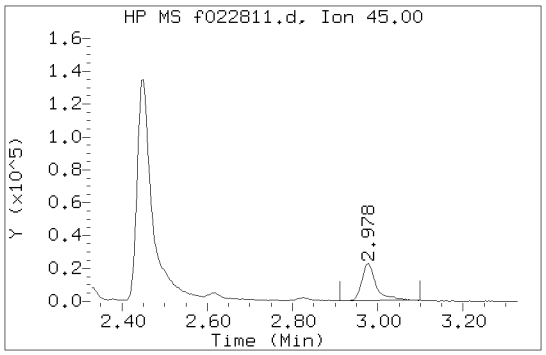
MASS
45
AREA
0
HEIGHT
0
28-Feb-2024
20:35
ALSHS
Server



Reason Code:

AFTER

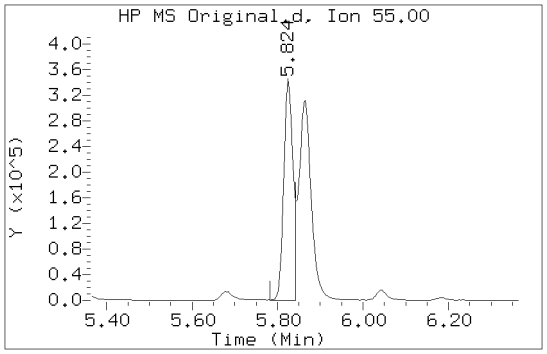
MASS
45
AREA
53176
HEIGHT
22727
11-Mar-2024
18:39
ALSHS
Ser



Methylcyclohexane (108-87-2)

BEFORE

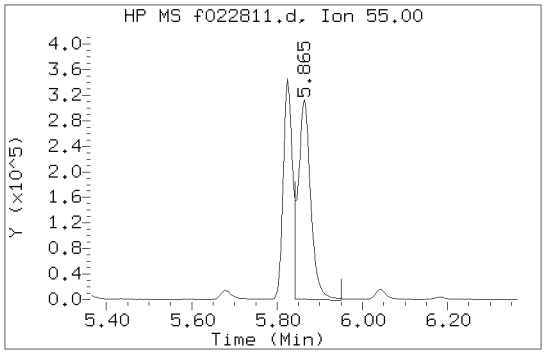
MASS
55
AREA
527418
HEIGHT
345971
28-Feb-2024
20:35
ALSHS
Server



Reason Code:

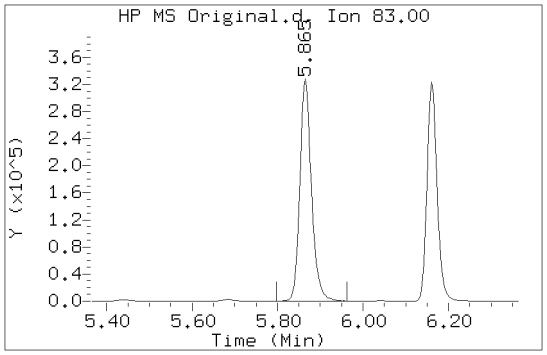
AFTER

MASS
55
AREA
657320
HEIGHT
312577
11-Mar-2024
18:39
ALSHS
Ser



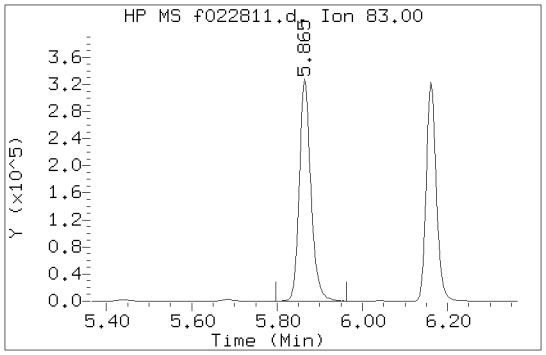
BEFORE

MASS
83
AREA
633888
HEIGHT
328384
28-Feb-2024
20:35
ALSHS
Server



AFTER

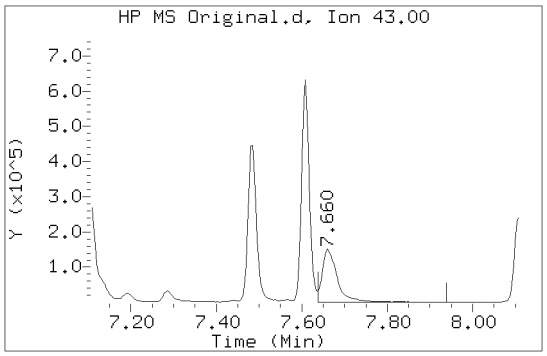
MASS
83
AREA
633888
HEIGHT
328384
11-Mar-2024
18:39
ALSHS
Ser



n-Butyl acetate (123-86-4)

BEFORE

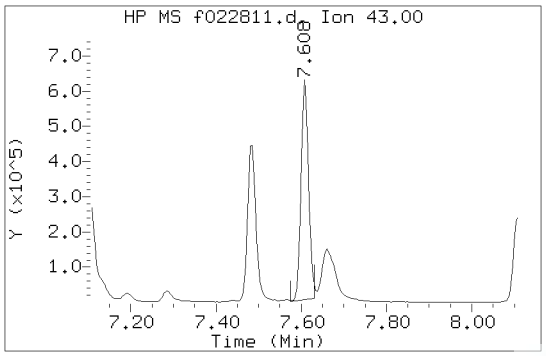
MASS
43
AREA
370055
HEIGHT
151953
28-Feb-2024
20:35
ALSHS
Server



Reason Code:

AFTER

MASS
43
AREA
788852
HEIGHT
623645
11-Mar-2024
18:39
ALSHS
Ser



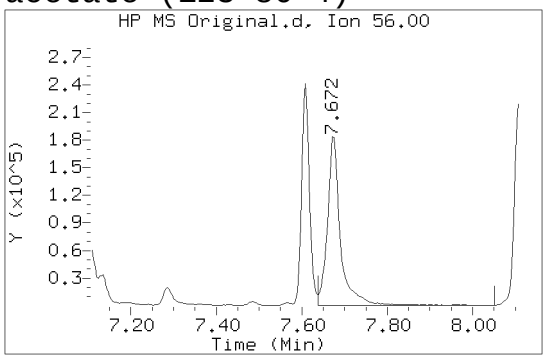
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LabSampID : VSTD200

n-Butyl acetate (123-86-4)

Reason Code:

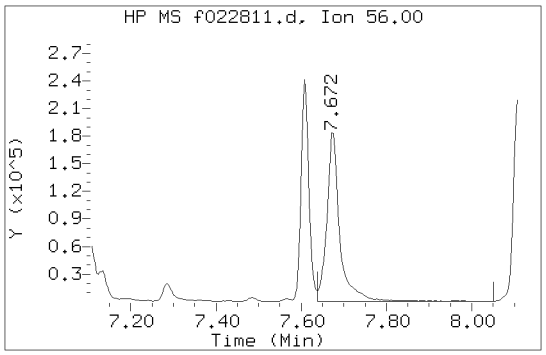
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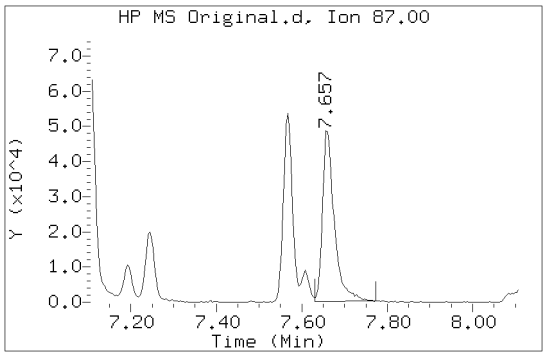
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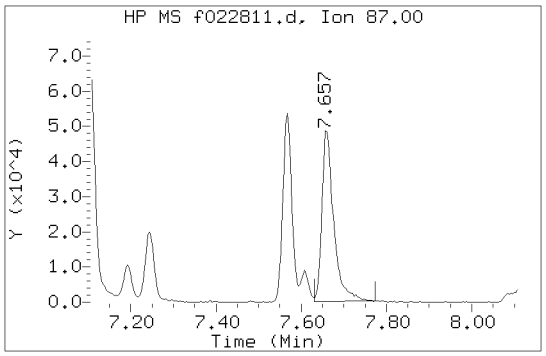
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AFTER

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11-Mar-2024
18:39
ALSHS
Ser



Data File: \\NAHSTWS005\Target\chem\voa10.i\G240228.b\F022813.D Page 1
Report Date: 11-Mar-2024 14:00

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa10.i\G240228.b\F022813.D
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Inj Date : 28-FEB-2024 21:00
Operator : FT Inst ID: voa10.i
Smp Info : VSTD050;VSTD050;2;;ICV
Misc Info : V10;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa10.i\G240228.b\8260W.m
Meth Date : 11-Mar-2024 13:59 voa10.i Quant Type: ISTD
Cal Date : 28-FEB-2024 20:18 Cal File: F022811.D
Als bottle: 13 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 01_STD_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.695	4.695	(1.000)	220464	50.0000	
2 Dichlorodifluoromethane	85	1.152	1.152	(0.246)	96472	50.7094	50.70
3 Chloromethane	50	1.280	1.280	(0.273)	195026	48.6565	48.65
4 Propionitrile	54	4.155	4.159	(0.885)	133294	522.018	522.01
5 Vinyl Chloride	62	1.355	1.355	(0.289)	131065	50.1041	50.10
6 Bromomethane	94	1.587	1.583	(0.338)	43794	49.8657	49.86
7 Chloroethane	64	1.662	1.662	(0.354)	80081	51.6303	51.63
8 Trichlorofluoromethane	101	1.857	1.857	(0.396)	129758	50.1624	50.16
9 Acrolein	56	3.169	3.169	(0.675)	77436	116.950	116.95
10 Acetone	43	2.318	2.318	(0.494)	90716	109.759	109.75
11 1,1-Dichloroethene	96	2.273	2.273	(0.484)	81353	51.6194	51.61
12 Isobutyl Alcohol	43	5.160	5.160	(1.099)	363954	1197.73	1197.72
13 Acetonitrile	39	2.592	2.592	(0.552)	131546	478.525	478.52
14 Allyl Chloride	41	2.588	2.592	(0.551)	200687	52.9167	52.91
15 Iodomethane	142	2.397	2.397	(0.511)	136370	117.269	117.26(M)
16 Acrylonitrile	53	2.937	2.937	(0.626)	74674	118.400	118.39
17 Methylene Chloride	84	2.704	2.704	(0.576)	99091	53.4358	53.43
18 Methyl tert-butyl ether	73	2.974	2.978	(0.634)	298190	56.4125	56.41
19 Carbon Disulfide	76	2.453	2.457	(0.523)	550795	105.749	105.74
20 trans-1,2-Dichloroethene	96	2.967	2.967	(0.632)	93328	50.0528	50.05

21 Vinyl Acetate	43	3.477	3.476 (0.741)	501101	111.806	111.80
22 1,1-Dichloroethane	63	3.398	3.401 (0.724)	187497	49.2084	49.20

Data File: \\NAHSTWS005\Target\chem\voa10.i\G240228.b\F022813.D Page 2
Report Date: 11-Mar-2024 14:00

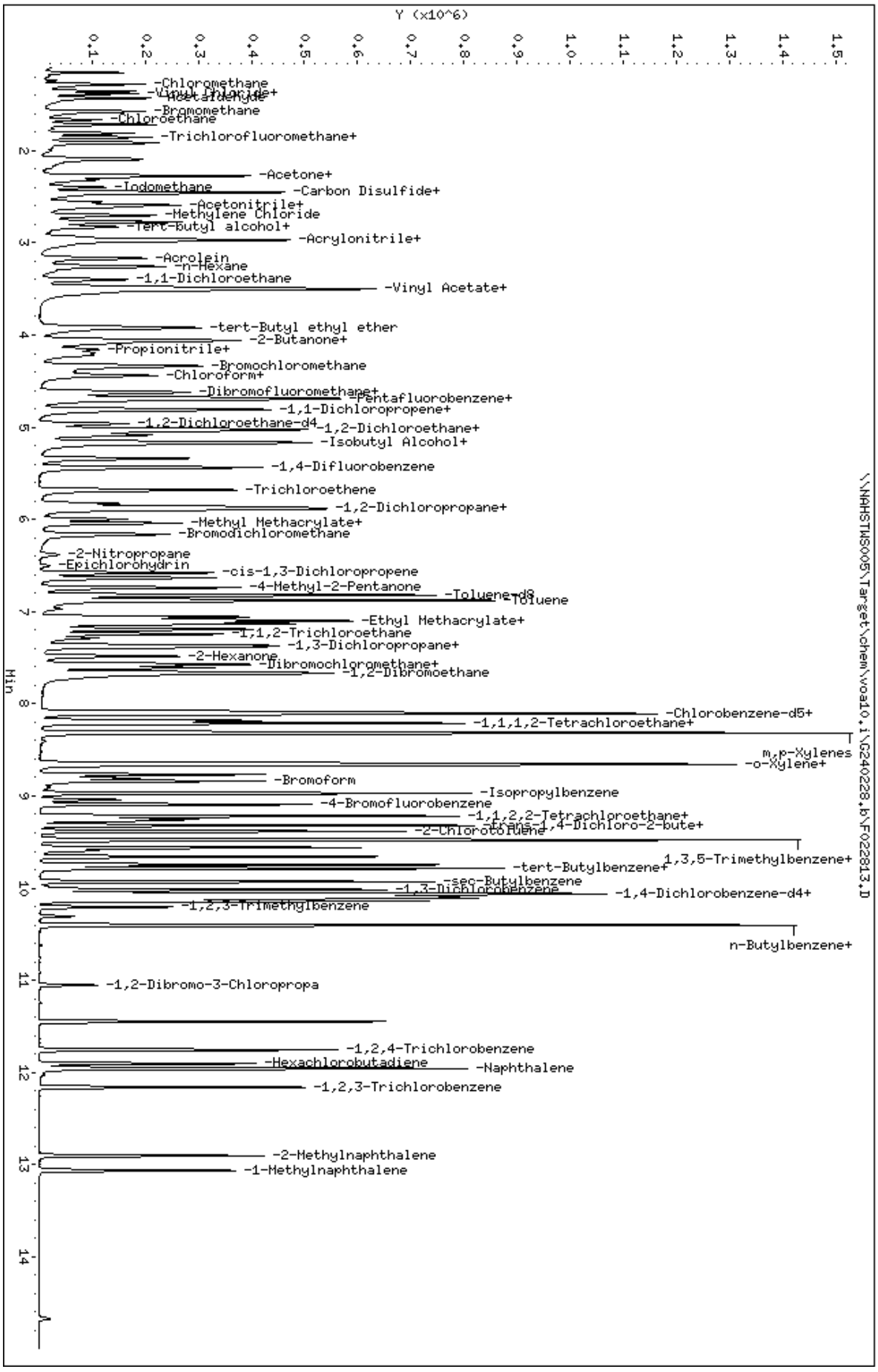
			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)
	24	2-Butanone	43	4.095	4.095	(0.872)	95852	111.527	111.52
	25	Methacrylonitrile	41	4.058	4.057	(0.864)	105101	55.6320	55.63
	26	2,2-Dichloropropane	77	4.058	4.061	(0.864)	137072	52.7912	52.79
	27	cis-1,2-Dichloroethene	96	4.061	4.061	(0.865)	102758	50.0050	50.00
	28	Chloroform	83	4.440	4.440	(0.946)	172021	53.2218	53.22
	29	Bromochloromethane	128	4.331	4.335	(0.923)	41856	50.1442	50.14
$	30	Dibromofluoromethane	113	4.612	4.612	(0.982)	84157	50.5755	50.57
	31	1,1,1-Trichloroethane	97	4.627	4.631	(0.986)	149493	53.2584	53.25
	32	1,1-Dichloropropene	75	4.807	4.811	(0.884)	149190	51.1827	51.18
	33	1,2-Dichloroethane	62	5.043	5.043	(0.928)	147143	51.4227	51.42
	34	Carbon Tetrachloride	117	4.807	4.807	(0.884)	120041	54.9106	54.91
$	35	1,2-Dichloroethane-d4	65	4.965	4.965	(1.057)	117803	50.8132	50.81
*	36	1,4-Difluorobenzene	114	5.437	5.437	(1.000)	332180	50.0000	
	37	Benzene	78	5.021	5.021	(0.923)	441402	49.8763	49.87
	38	Trichloroethene	130	5.681	5.681	(1.045)	101371	51.1246	51.12
	39	Bromodichloromethane	83	6.161	6.160	(1.133)	136767	52.3350	52.33
	40	Methyl Methacrylate	41	6.041	6.041	(1.287)	125008	56.4835	56.48
	42	1,2-Dichloropropane	63	5.891	5.891	(1.083)	122117	51.1613	51.16
	43	2-Nitropropane	43	6.374	6.378	(1.358)	21055	54.4991	54.49(M)
	44	Dibromomethane	93	5.996	5.996	(1.103)	57788	54.7233	54.72
	45	4-Methyl-2-Pentanone	43	6.738	6.738	(0.834)	262173	111.955	111.95
	46	cis-1,3-Dichloropropene	75	6.580	6.580	(1.210)	160985	53.9868	53.98
*	47	Chlorobenzene-d5	117	8.084	8.084	(1.000)	266998	50.0000	
$	48	Toluene-d8	98	6.820	6.820	(0.844)	366367	53.1697	53.16
	49	Ethyl Methacrylate	69	7.101	7.105	(1.306)	76054	56.7827	56.78
	50	Toluene	91	6.880	6.880	(0.851)	430088	52.3927	52.39
	51	trans-1,3-Dichloropropene	75	7.086	7.086	(1.303)	133461	58.2354	58.23
	52	2-Hexanone	43	7.484	7.484	(0.926)	168867	117.658	117.65
	53	1,1,2-Trichloroethane	83	7.244	7.244	(0.896)	79081	56.3485	56.34
	54	1,3-Dichloropropane	76	7.386	7.386	(0.914)	168299	54.6411	54.64
	55	Dibromochloromethane	129	7.581	7.581	(0.938)	96724	58.4604	58.46
	56	Tetrachloroethene	164	7.368	7.368	(0.911)	78892	54.9218	54.92
	57	1,2-Dibromoethane	107	7.671	7.675	(0.949)	86216	55.8776	55.87
	58	1-Chlorohexane	55	8.106	8.106	(1.491)	108025	54.6340	54.63
	59	Chlorobenzene	112	8.110	8.110	(1.003)	252887	52.1016	52.10
	60	1,1,1,2-Tetrachloroethane	131	8.185	8.185	(1.013)	92616	55.1596	55.15
	61	Ethylbenzene	106	8.211	8.215	(1.016)	137098	55.9100	55.91
	62	m,p-Xylenes	106	8.316	8.316	(1.029)	337068	107.093	107.09
	63	o-Xylene	106	8.653	8.653	(1.070)	165540	54.5134	54.51
	64	Styrene	104	8.665	8.665	(1.072)	290915	59.3417	59.34
	66	Bromoform	173	8.807	8.811	(1.089)	65277	58.2500	58.25
	67	Isopropylbenzene	105	8.972	8.972	(1.110)	422031	55.2112	55.21
	68	1,1,2,2-Tetrachloroethane	83	9.219	9.223	(0.916)	124457	57.3114	57.31
$	69	4-Bromofluorobenzene	95	9.092	9.096	(1.125)	132643	53.5624	53.56
*	70	1,4-Dichlorobenzene-d4	152	10.070	10.074	(1.000)	143297	50.0000	
	71	1,2,3-Trichloropropane	75	9.253	9.253	(0.919)	134148	55.0318	55.03
	72	trans-1,4-Dichloro-2-butene	53	9.272	9.272	(1.147)	32119	59.5407	59.54
	73	n-Propylbenzene	91	9.321	9.321	(0.926)	507657	56.7253	56.72
	74	Bromobenzene	156	9.216	9.216	(0.915)	109688	52.5249	52.52
	75	1,3,5-Trimethylbenzene	105	9.471	9.474	(0.940)	354571	57.1733	57.17
	76	2-Chlorotoluene	91	9.384	9.388	(0.932)	306861	54.3516	54.35
	77	4-Chlorotoluene	91	9.478	9.478	(0.941)	358984	55.3264	55.32

78	tert-Butylbenzene	119	9.744	9.748 (0.968)	285627	55.2536	55.25
79	1,2,4-Trimethylbenzene	105	9.785	9.789 (0.972)	358620	56.9577	56.95

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	81 sec-Butylbenzene	105	9.932	9.935	(0.986)	403155	56.9648	56.96
	82 p-Isopropyltoluene	119	10.059	10.059	(0.999)	360665	59.6910	59.69
	83 1,3-Dichlorobenzene	146	10.014	10.018	(0.994)	205509	54.1822	54.18
	84 1,4-Dichlorobenzene	146	10.089	10.093	(1.002)	213102	52.6826	52.68
	87 n-Butylbenzene	91	10.400	10.400	(1.033)	347576	58.2286	58.22
	88 1,2-Dichlorobenzene	146	10.404	10.404	(1.033)	203517	54.1561	54.15
	89 1,2-Dibromo-3-Chloropropane	155	11.053	11.052	(1.098)	18732	59.3568	59.35
	90 1,2,4-Trichlorobenzene	180	11.754	11.753	(1.167)	141520	59.6366	59.63
	91 Hexachlorobutadiene	225	11.903	11.907	(1.182)	66285	59.6807	59.68
	92 Naphthalene	128	11.960	11.960	(1.188)	352339	59.4920	59.49
	93 1,2,3-Trichlorobenzene	180	12.162	12.162	(1.208)	125472	58.9695	58.96
	135 1,4-Dioxane	88	6.041	6.044	(1.287)	14785	1136.46	1136.46
	130 Ethyl Acetate	43	4.193	4.192	(0.893)	134249	58.6504	58.65
	136 n-Hexane	57	3.259	3.259	(0.694)	134555	58.5223	58.52
	138 Freon TF	101	2.277	2.281	(0.485)	83794	52.1686	52.16
	139 Diethyl ether	59	2.828	2.824	(0.602)	129368	53.2530	53.25(M)
	141 Cyclohexane	56	4.687	4.687	(0.998)	179057	53.9940	53.99
	142 Tetrahydrofuran	42	4.399	4.395	(0.937)	33886	111.599	111.59
	146 Methyl Acetate	43	2.614	2.614	(0.557)	151973	56.6615	56.66
	147 Methylcyclohexane	55	5.864	5.864	(1.079)	163613	50.5322	50.53
	148 Tert-butyl alcohol	59	2.828	2.824	(0.602)	146202	1073.84	1073.83
	149 Isopropyl alcohol	45	2.449	2.449	(0.522)	97505	1151.06	1151.05
	151 4-Methyl-2-pentanol	45	7.101	7.105	(1.306)	541776	1045.88	1045.88(M)
	156 Diisopropyl ether	45	3.503	3.503	(0.746)	446354	51.9924	51.99
	158 Dichlorofluoromethane	67	1.812	1.808	(0.386)	153111	49.4920	49.49
	166 1,2,3-Trimethylbenzene	105	10.142	10.142	(1.007)	327409	57.0313	57.03
	160 2-Methylnaphthalene	142	12.904	12.904	(1.281)	157977	65.5713	65.57
	180 1-Methylnaphthalene	142	13.062	13.062	(1.297)	143228	68.1832	68.18
	174 tert-Amyl methyl ether	73	5.171	5.175	(1.101)	319627	57.5085	57.50
	175 tert-Butyl ethyl ether	59	3.923	3.919	(0.836)	344327	54.2668	54.26
	132 n-Butanol	56	5.861	5.864	(1.248)	56054	1086.38	1086.37
	140 1,3-Butadiene	54	1.381	1.381	(0.294)	45478	55.8483	55.84
	189 n-Butyl acetate	43	7.608	7.607	(0.941)	193501	54.8176	54.81
	86 Benzyl Chloride	91	10.400	10.400	(1.287)	347576	59.0999	59.09
	182 Epichlorohydrin	57	6.505	6.505	(1.196)	13910	201.157	201.15(M)
	150 Allyl alcohol	57	3.480	3.488	(0.741)	24919	1129.03	1129.02
	162 Butyl acrylate	55	8.638	8.638	(1.069)	228513	50.4458	50.44
	194 Acetaldehyde	44	1.430	1.430	(0.305)	180888	214.315	214.31(M)
	131 Methyl Acrylate	55	4.219	4.219	(0.899)	104767	57.8459	57.84
	133 Ethyl Acrylate	55	5.823	5.823	(1.240)	136603	57.8939	57.89
M	94 1,2-Dichloroethylene (total)	96				196086	100.058	100.05
M	95 Xylenes (total)	106				502608	161.607	161.60

QC Flag Legend

M - Compound response manually integrated.



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Column phase: DB624

Instrument: voa10.i
Operator: FT
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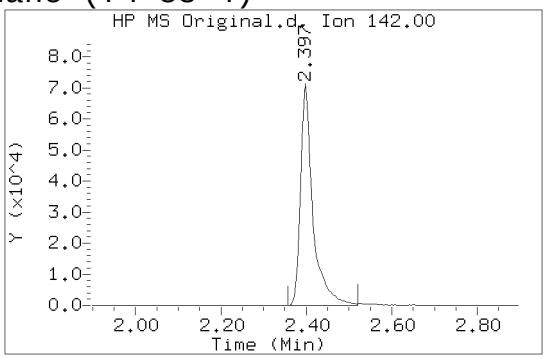
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InstruID : voa10.i
LabSampID : ICV

Iodomethane (74-88-4)

Reason Code:

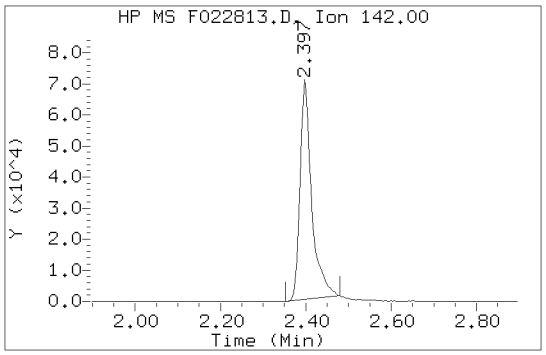
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21:16
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Server



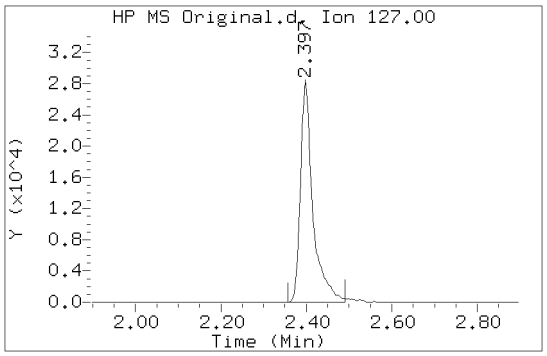
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ALSHS
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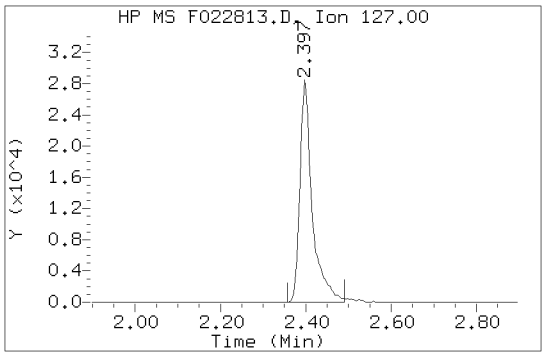
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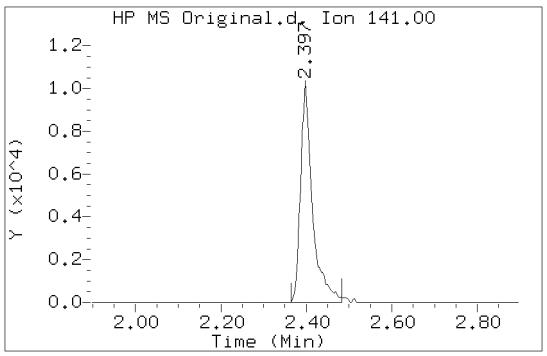
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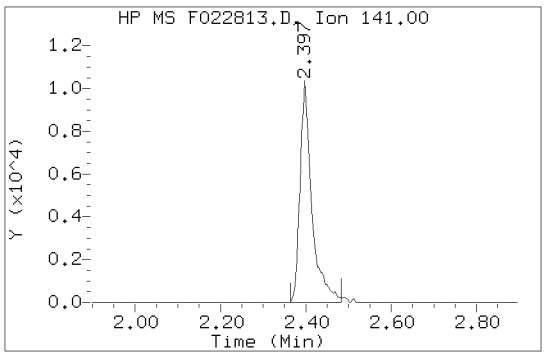
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AFTER

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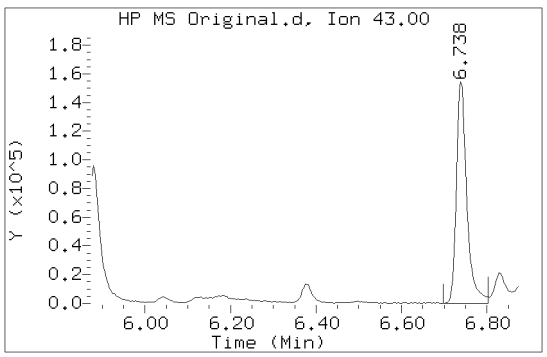


2-Nitropropane (79-46-9)

Reason Code:

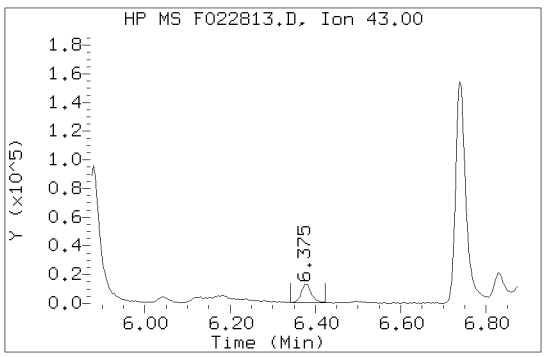
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AFTER

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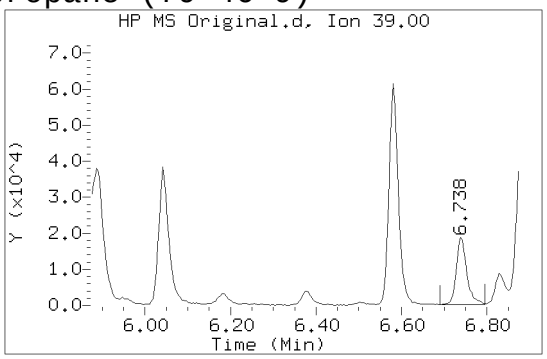
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InstruID : voa10.i
LabSampID : ICV

2-Nitropropane (79-46-9)

Reason Code:

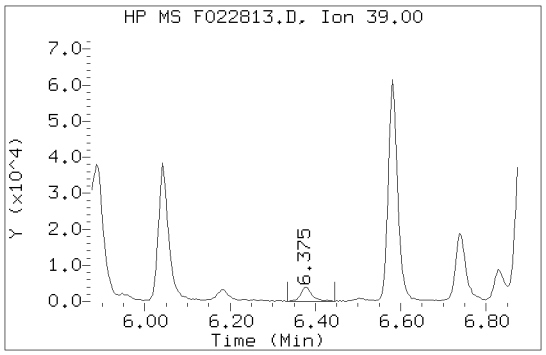
BEFORE

MASS
39
AREA
31676
HEIGHT
18662
28-Feb-2024
21:16
ALSHS
Server



AFTER

MASS
39
AREA
7456
HEIGHT
3986
11-Mar-2024
13:59
ALSHS
Ser

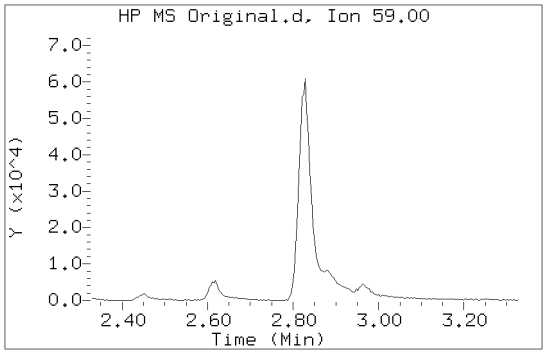


Diethyl ether (60-29-7)

Reason Code:

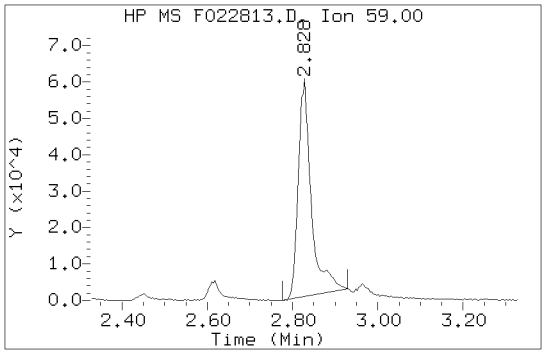
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ALSHS
Server



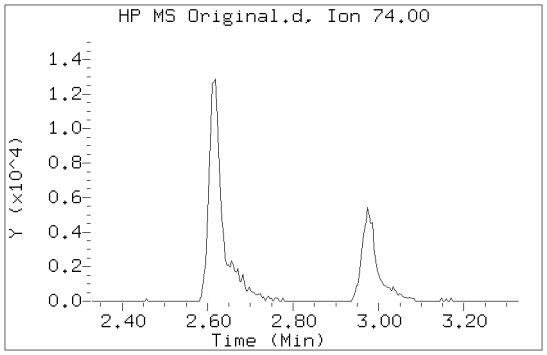
AFTER

MASS
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AREA
129368
HEIGHT
59842
11-Mar-2024
13:59
ALSHS
Ser



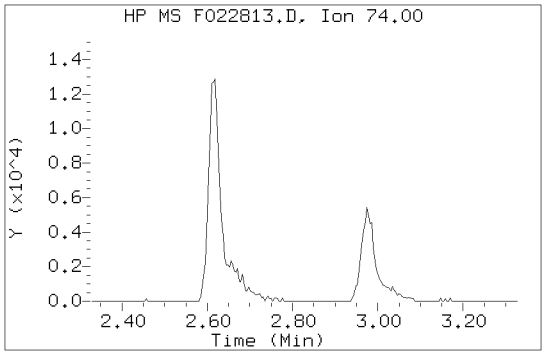
BEFORE

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AREA
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HEIGHT
0
28-Feb-2024
21:16
ALSHS
Server



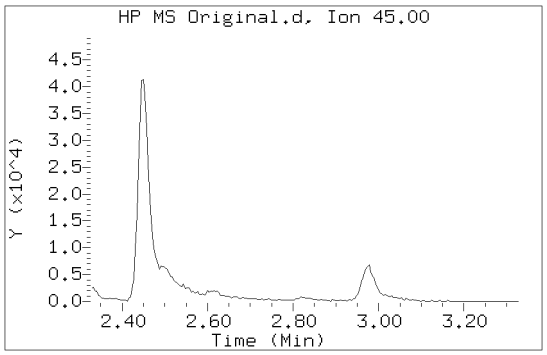
AFTER

MASS
74
AREA
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HEIGHT
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13:59
ALSHS
Ser



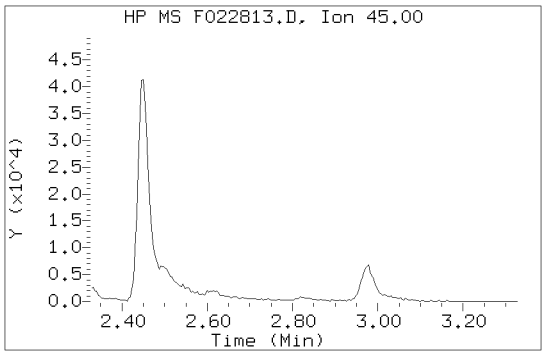
BEFORE

MASS
45
AREA
0
HEIGHT
0
28-Feb-2024
21:16
ALSHS
Server



AFTER

MASS
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AREA
0
HEIGHT
0
11-Mar-2024
13:59
ALSHS
Ser



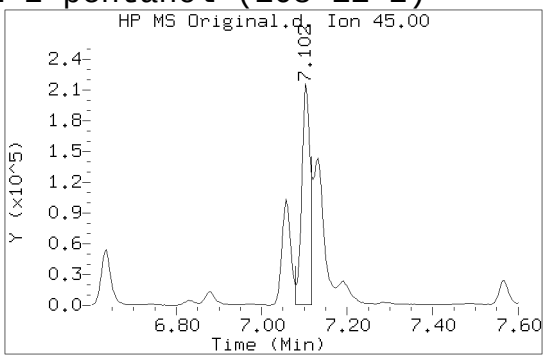
Data File : \\NAHSTWS005\Target\chem\voa10.i\G240228.b\F022813.D
Inj Date : 28-FEB-2024 21:00
InstruID : voa10.i
LabSampID : ICV

4-Methyl-2-pentanol (108-11-2)

Reason Code:

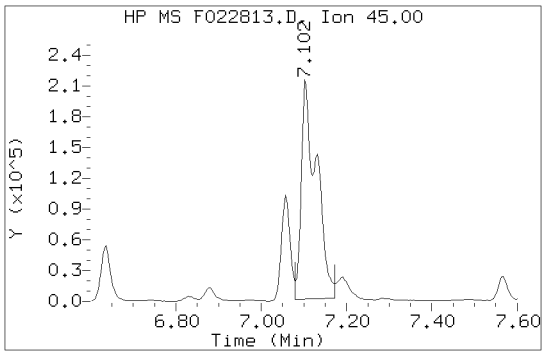
BEFORE

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45
AREA
303307
HEIGHT
215573
28-Feb-2024
21:16
ALSHS
Server



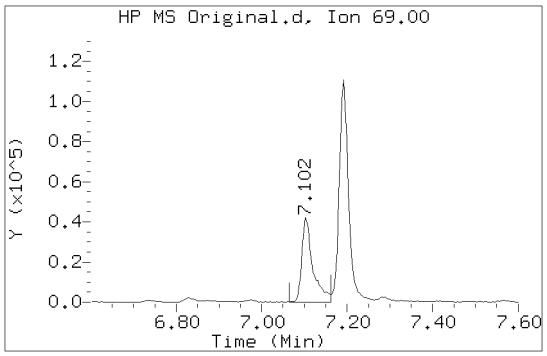
AFTER

MASS
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AREA
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HEIGHT
214008
11-Mar-2024
13:59
ALSHS
Ser



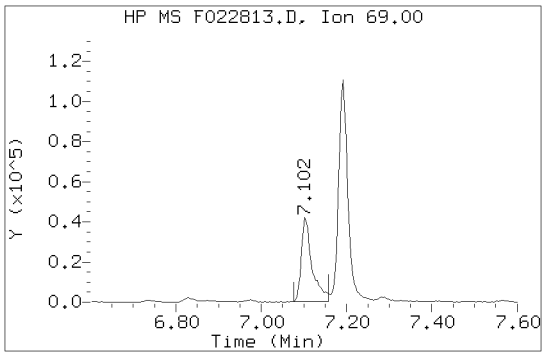
BEFORE

MASS
69
AREA
78341
HEIGHT
42384
28-Feb-2024
21:16
ALSHS
Server



AFTER

MASS
69
AREA
76054
HEIGHT
42131
11-Mar-2024
13:59
ALSHS
Ser

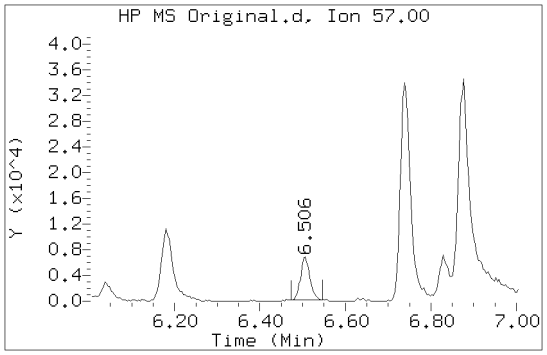


Epichlorohydrin (106-89-8)

Reason Code:

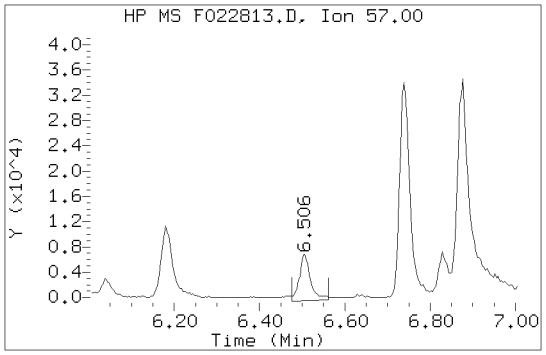
BEFORE

MASS
57
AREA
10315
HEIGHT
6660
28-Feb-2024
21:16
ALSHS
Server



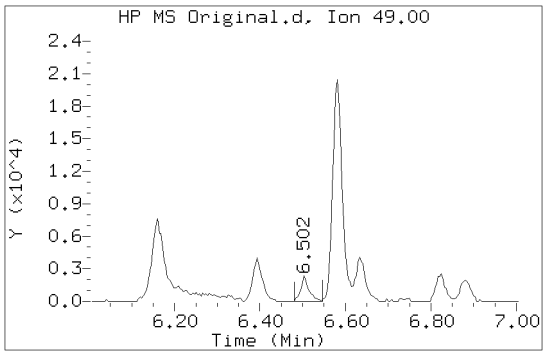
AFTER

MASS
57
AREA
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HEIGHT
7364
11-Mar-2024
13:59
ALSHS
Ser



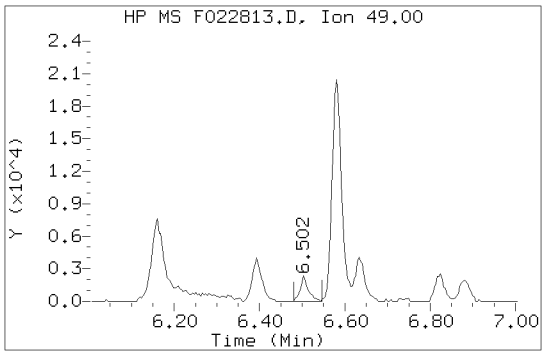
BEFORE

MASS
49
AREA
3201
HEIGHT
2376
28-Feb-2024
21:16
ALSHS
Server



AFTER

MASS
49
AREA
3201
HEIGHT
2376
11-Mar-2024
13:59
ALSHS
Ser



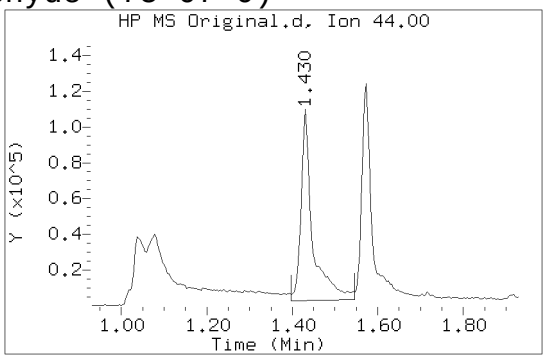
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Inj Date : 28-FEB-2024 21:00
InstruID : voa10.i
LabSampID : ICV

Acetaldehyde (75-07-0)

Reason Code:

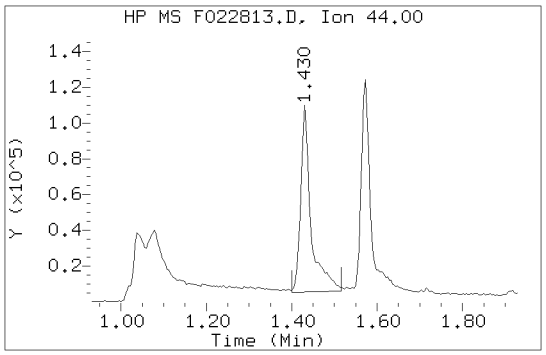
BEFORE

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AREA
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HEIGHT
107076
28-Feb-2024
21:16
ALSHS
Server



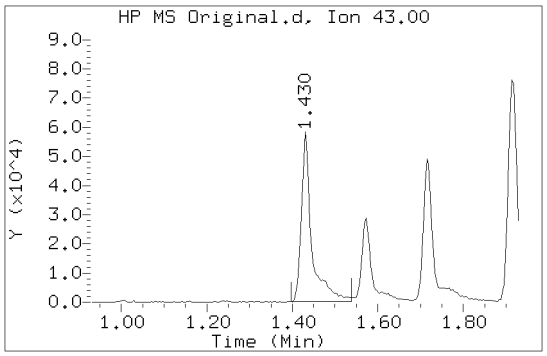
AFTER

MASS
44
AREA
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HEIGHT
104494
11-Mar-2024
13:59
ALSHS
Ser



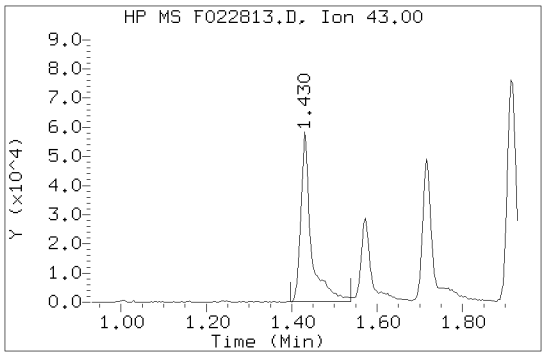
BEFORE

MASS
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AREA
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HEIGHT
58161
28-Feb-2024
21:16
ALSHS
Server



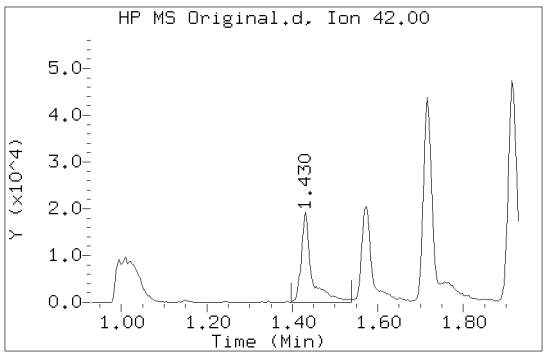
AFTER

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HEIGHT
58161
11-Mar-2024
13:59
ALSHS
Ser



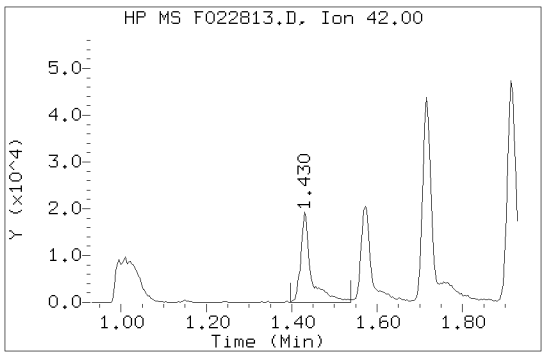
BEFORE

MASS
42
AREA
34033
HEIGHT
19328
28-Feb-2024
21:16
ALSHS
Server



AFTER

MASS
42
AREA
34033
HEIGHT
19328
11-Mar-2024
13:59
ALSHS
Ser



right solutions.
right partner.

RawData

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24021563

Client

Bhate Environmental Associates, Inc.

Project

LHAAP / Site 46

03/21/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Data File: \\nahstws005\Target\chem\voa10.i\F240229.b\F022901.D Page 1
Report Date: 29-Feb-2024 10:23

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa10.i\F240229.b\F022901.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 29-FEB-2024 09:12
Operator : FT Inst ID: voa10.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V10;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa10.i\F240229.b\bfb.m
Meth Date : 26-Dec-2023 06:28 donna.brou Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAHSTW7066

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	2.000	Injection Volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/l)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
9.092	9.096	(0.000)	95	75904			0.00- 100.00	100.00
9.092	9.096	(0.000)	50	17584			15.00- 40.00	23.17
9.092	9.096	(0.000)	75	38320			30.00- 60.00	50.48
9.092	9.096	(0.000)	96	5504			5.00- 9.00	7.25
9.092	9.096	(0.000)	173	837			0.00- 2.00	1.37
9.092	9.096	(0.000)	174	60936			50.00- 0.00	80.28
9.092	9.096	(0.000)	175	4816			5.00- 9.00	7.90
9.092	9.096	(0.000)	176	59552			95.00- 101.00	97.73
9.092	9.096	(0.000)	177	3746			5.00- 9.00	6.29

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	23.17
75	30.00 - 60.00% of mass 95	50.48
96	5.00 - 9.00% of mass 95	7.25
173	Less than 2.00% of mass 174	1.10 (1.37)
174	Greater than 50.00% of mass 95	80.28
175	5.00 - 9.00% of mass 174	6.34 (7.90)
176	95.00 - 101.00% of mass 174	78.46 (97.73)
177	5.00 - 9.00% of mass 176	4.94 (6.29)

Data File: F022901.D
Spectrum: Scan 2268 (9.09)
Location of Maximum: 95.10
Number of points: 63

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1012	58.00	284	78.00	272	105.80	270
37.10	5558	60.00	822	78.90	2057	115.90	289
38.10	4377	61.10	3714	80.00	579	116.90	437
39.00	1792	62.10	3812	81.00	1775	118.00	270
40.00	320	63.00	3137	82.00	370	118.90	430
44.10	858	64.00	265	86.00	217	127.90	327
45.10	683	67.10	286	87.00	3553	129.90	382
47.00	1808	68.10	8120	87.90	3432	141.00	514
47.90	481	69.00	7975	91.00	356	143.00	798
49.10	3543	70.00	605	92.00	2277	156.90	263
50.10	17584	72.10	454	93.00	2763	172.90	837
51.10	5606	73.00	3557	94.00	8372	174.00	60936
52.10	390	74.10	13769	95.10	75904	174.90	4816
55.00	239	75.10	38320	96.00	5504	176.00	59552
56.00	1090	76.10	3135	104.10	215	177.00	3746
57.00	2644	77.00	427	105.00	167		

Data File: \\NAHSTWS005\Target\chem\voa10.i\f240229.b\f022901.d Page 1

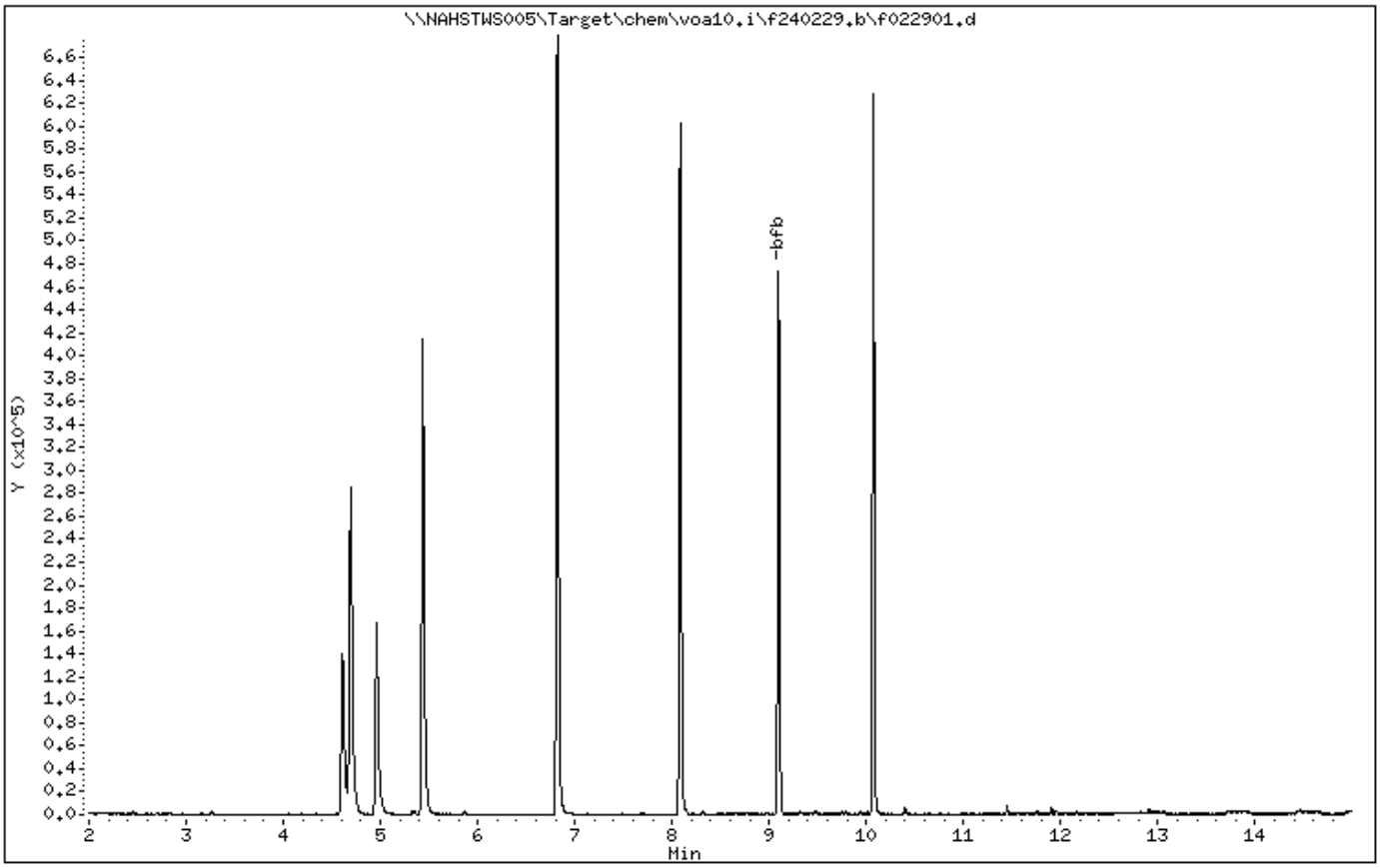
Date : 29-FEB-2024 09:12

Client ID: BFB Instrument: voa10.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: FT

Column phase: DB624 Column diameter: 0.25



Data File : \\nahstws005\target\chem\voa10.i\f240229.b\f022901.d
Inj Date : 29-FEB-2024 09:12
InstruID : voa10.i
LabSampID : BFB

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa10.i\F240229.b\F022902.D Page 1
Report Date: 11-Mar-2024 13:51

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa10.i\F240229.b\F022902.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 29-FEB-2024 09:54
Operator : FT Inst ID: voa10.i
Smp Info : VSTD050;VSTD050;2;;CCV
Misc Info : V10;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa10.i\F240229.b\8260W.m
Meth Date : 11-Mar-2024 13:51 voa10.i Quant Type: ISTD
Cal Date : 28-FEB-2024 18:12 Cal File: F022805.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 01_STD_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.695	4.695	(1.000)	211345	50.0000	
2	Dichlorodifluoromethane	85	1.153	1.153	(0.246)	95876	50.0000	52.57
3	Chloromethane	50	1.280	1.280	(0.273)	186555	50.0000	48.55
4	Propionitrile	54	4.155	4.155	(0.885)	130556	500.000	533.35
5	Vinyl Chloride	62	1.355	1.355	(0.289)	128657	50.0000	51.30
6	Bromomethane	94	1.584	1.584	(0.337)	40264	50.0000	47.78
7	Chloroethane	64	1.662	1.662	(0.354)	74147	50.0000	49.86
8	Trichlorofluoromethane	101	1.857	1.857	(0.396)	130403	50.0000	52.58
9	Acrolein	56	3.169	3.169	(0.675)	73987	100.000	116.56(M)
10	Acetone	43	2.318	2.318	(0.494)	120291	100.000	155.14
11	1,1-Dichloroethene	96	2.270	2.270	(0.483)	81382	50.0000	53.86
12	Isobutyl Alcohol	43	5.160	5.160	(1.099)	347293	1000.00	1192.20(M)
13	Acetonitrile	39	2.588	2.588	(0.551)	114704	500.000	432.89
14	Allyl Chloride	41	2.588	2.588	(0.551)	199396	50.0000	54.77
15	Iodomethane	142	2.397	2.397	(0.511)	145188	100.000	129.04
16	Acrylonitrile	53	2.937	2.937	(0.626)	70602	100.000	116.72(M)
17	Methylene Chloride	84	2.704	2.704	(0.576)	96624	50.0000	54.36
18	Methyl tert-butyl ether	73	2.974	2.974	(0.634)	273226	50.0000	53.92
19	Carbon Disulfide	76	2.453	2.453	(0.523)	537626	100.000	107.64
20	trans-1,2-Dichloroethene	96	2.967	2.967	(0.632)	91583	50.0000	51.23

21 Vinyl Acetate	43	3.477	3.477 (0.741)	451828	100.000	105.16
22 1,1-Dichloroethane	63	3.398	3.398 (0.724)	183019	50.0000	50.10

Data File: \\NAHSTWS005\Target\chem\voa10.i\F240229.b\F022902.D Page 2
Report Date: 11-Mar-2024 13:51

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
	24	2-Butanone	43	4.095	4.095	(0.872)	96592	100.000	117.58(M)
	25	Methacrylonitrile	41	4.054	4.054	(0.863)	106839	50.0000	59.07
	26	2,2-Dichloropropane	77	4.058	4.058	(0.864)	139647	50.0000	56.10
	27	cis-1,2-Dichloroethene	96	4.061	4.061	(0.865)	99061	50.0000	50.28
	28	Chloroform	83	4.440	4.440	(0.946)	167186	50.0000	53.96
	29	Bromochloromethane	128	4.335	4.335	(0.923)	41186	50.0000	51.47
$	30	Dibromofluoromethane	113	4.613	4.613	(0.982)	86691	50.0000	54.54
	31	1,1,1-Trichloroethane	97	4.627	4.627	(0.986)	144653	50.0000	53.75
	32	1,1-Dichloropropene	75	4.811	4.811	(0.885)	142356	50.0000	50.93
	33	1,2-Dichloroethane	62	5.044	5.044	(0.928)	142036	50.0000	51.76
	34	Carbon Tetrachloride	117	4.807	4.807	(0.884)	113668	50.0000	54.22
$	35	1,2-Dichloroethane-d4	65	4.965	4.965	(1.057)	118289	50.0000	53.39
*	36	1,4-Difluorobenzene	114	5.437	5.437	(1.000)	318503	50.0000	
	37	Benzene	78	5.021	5.021	(0.923)	420283	50.0000	49.52
	38	Trichloroethene	130	5.681	5.681	(1.045)	96695	50.0000	50.86
	39	Bromodichloromethane	83	6.161	6.161	(1.133)	135729	50.0000	54.16
	40	Methyl Methacrylate	41	6.044	6.044	(1.287)	117837	50.0000	55.54
	42	1,2-Dichloropropane	63	5.891	5.891	(1.083)	117371	50.0000	51.28
	43	2-Nitropropane	43	6.378	6.378	(1.358)	21580	50.0000	58.27
	44	Dibromomethane	93	5.996	5.996	(1.103)	55847	50.0000	55.15
	45	4-Methyl-2-Pentanone	43	6.738	6.738	(0.834)	258154	100.000	110.80
	46	cis-1,3-Dichloropropene	75	6.581	6.581	(1.210)	158830	50.0000	55.55
*	47	Chlorobenzene-d5	117	8.084	8.084	(1.000)	265562	50.0000	
$	48	Toluene-d8	98	6.820	6.820	(0.844)	375870	50.0000	54.93
	49	Ethyl Methacrylate	69	7.102	7.102	(1.306)	73359	50.0000	57.11(M)
	50	Toluene	91	6.880	6.880	(0.851)	418228	50.0000	51.22
	51	trans-1,3-Dichloropropene	75	7.087	7.087	(1.303)	130455	50.0000	59.36(M)
	52	2-Hexanone	43	7.484	7.484	(0.926)	170122	100.000	119.17(M)
	53	1,1,2-Trichloroethane	83	7.244	7.244	(0.896)	76983	50.0000	55.15
	54	1,3-Dichloropropane	76	7.386	7.386	(0.914)	165569	50.0000	54.04
	55	Dibromochloromethane	129	7.581	7.581	(0.938)	94674	50.0000	57.53
	56	Tetrachloroethene	164	7.364	7.364	(0.911)	77298	50.0000	54.10
	57	1,2-Dibromoethane	107	7.671	7.671	(0.949)	85921	50.0000	55.98
	58	1-Chlorohexane	55	8.106	8.106	(1.491)	106958	50.0000	56.44
	59	Chlorobenzene	112	8.110	8.110	(1.003)	249219	50.0000	51.62
	60	1,1,1,2-Tetrachloroethane	131	8.185	8.185	(1.013)	91978	50.0000	55.07
	61	Ethylbenzene	106	8.211	8.211	(1.016)	133835	50.0000	54.87
	62	m,p-Xylenes	106	8.316	8.316	(1.029)	332180	100.000	106.11
	63	o-Xylene	106	8.654	8.654	(1.070)	162998	50.0000	53.96
	64	Styrene	104	8.665	8.665	(1.072)	287149	50.0000	58.89
	66	Bromoform	173	8.811	8.811	(1.090)	65457	50.0000	58.72
	67	Isopropylbenzene	105	8.972	8.972	(1.110)	415391	50.0000	54.63
	68	1,1,2,2-Tetrachloroethane	83	9.220	9.220	(0.916)	120624	50.0000	55.23
$	69	4-Bromofluorobenzene	95	9.092	9.092	(1.125)	133920	50.0000	54.41
*	70	1,4-Dichlorobenzene-d4	152	10.071	10.071	(1.000)	144114	50.0000	
	71	1,2,3-Trichloropropane	75	9.253	9.253	(0.919)	131937	50.0000	53.65
	72	trans-1,4-Dichloro-2-butene	53	9.272	9.272	(1.147)	30795	50.0000	57.39
	73	n-Propylbenzene	91	9.321	9.321	(0.926)	501453	50.0000	55.71
	74	Bromobenzene	156	9.216	9.216	(0.915)	108719	50.0000	51.76
	75	1,3,5-Trimethylbenzene	105	9.471	9.471	(0.940)	352275	50.0000	56.48
	76	2-Chlorotoluene	91	9.385	9.385	(0.932)	297939	50.0000	52.47
	77	4-Chlorotoluene	91	9.478	9.478	(0.941)	351599	50.0000	53.88

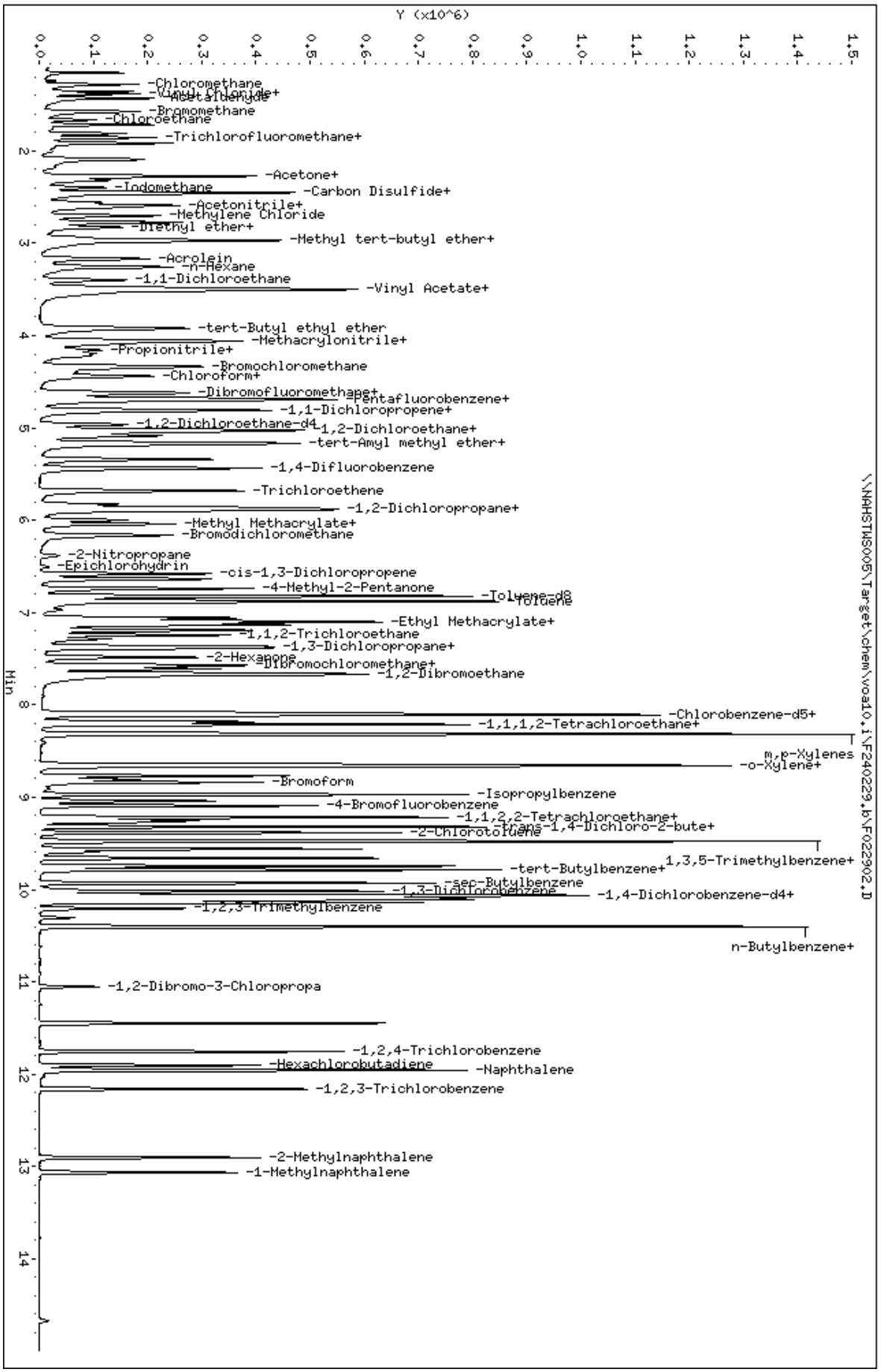
78	tert-Butylbenzene	119	9.744	9.744 (0.968)	280609	50.0000	53.97
79	1,2,4-Trimethylbenzene	105	9.786	9.786 (0.972)	355813	50.0000	56.19

Data File: \\NAHSTWS005\Target\chem\voa10.i\F240229.b\F022902.D Page 3
Report Date: 11-Mar-2024 13:51

						AMOUNTS	
		QUANT SIG				CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
	81 sec-Butylbenzene	105	9.932	9.932	(0.986)	397947	50.0000	55.91
	82 p-Isopropyltoluene	119	10.056	10.056	(0.999)	358039	50.0000	58.92
	83 1,3-Dichlorobenzene	146	10.014	10.014	(0.994)	198478	50.0000	52.03
	84 1,4-Dichlorobenzene	146	10.093	10.093	(1.002)	207265	50.0000	50.94
	87 n-Butylbenzene	91	10.400	10.400	(1.033)	349685	50.0000	58.24
	88 1,2-Dichlorobenzene	146	10.404	10.404	(1.033)	200877	50.0000	53.15
	89 1,2-Dibromo-3-Chloropropane	155	11.053	11.053	(1.098)	18185	50.0000	57.32
	90 1,2,4-Trichlorobenzene	180	11.754	11.754	(1.167)	139619	50.0000	58.50
	91 Hexachlorobutadiene	225	11.907	11.907	(1.182)	65135	50.0000	58.33
	92 Naphthalene	128	11.956	11.956	(1.187)	345848	50.0000	57.98
	93 1,2,3-Trichlorobenzene	180	12.162	12.162	(1.208)	124217	50.0000	58.05
	135 1,4-Dioxane	88	6.041	6.041	(1.287)	17154	1000.00	1378.98
	130 Ethyl Acetate	43	4.193	4.193	(0.893)	131479	50.0000	59.91
	136 n-Hexane	57	3.259	3.259	(0.694)	132168	50.0000	59.96(M)
	138 Freon TF	101	2.277	2.277	(0.485)	81626	50.0000	53.01
	139 Diethyl ether	59	2.828	2.828	(0.602)	135394	50.0000	58.15(M)
	141 Cyclohexane	56	4.687	4.687	(0.998)	174673	50.0000	54.97
	142 Tetrahydrofuran	42	4.403	4.403	(0.938)	30999	100.000	106.49(M)
	146 Methyl Acetate	43	2.614	2.614	(0.557)	146740	50.0000	57.07
	147 Methylcyclohexane	55	5.861	5.861	(1.078)	174839	50.0000	56.31
	148 Tert-butyl alcohol	59	2.828	2.828	(0.602)	143101	1000.00	1097.75(M)
	149 Isopropyl alcohol	45	2.450	2.450	(0.522)	112439	1000.00	1394.86
	151 4-Methyl-2-pentanol	45	7.102	7.102	(1.306)	566983	1000.00	1139.04(M)
	156 Diisopropyl ether	45	3.503	3.503	(0.746)	411699	50.0000	50.02
	158 Dichlorofluoromethane	67	1.812	1.812	(0.386)	142895	50.0000	48.18
	166 1,2,3-Trimethylbenzene	105	10.142	10.142	(1.007)	314124	50.0000	54.36
	160 2-Methylnaphthalene	142	12.904	12.904	(1.281)	155867	50.0000	64.39
	180 1-Methylnaphthalene	142	13.062	13.062	(1.297)	139583	50.0000	66.11
	174 tert-Amyl methyl ether	73	5.171	5.171	(1.101)	299361	50.0000	56.18
	175 tert-Butyl ethyl ether	59	3.923	3.923	(0.836)	319488	50.0000	52.52
	132 n-Butanol	56	5.865	5.865	(1.249)	53839	1000.00	1088.46
	140 1,3-Butadiene	54	1.381	1.381	(0.294)	44309	50.0000	56.76
	189 n-Butyl acetate	43	7.608	7.608	(0.941)	190573	50.0000	54.28
	86 Benzyl Chloride	91	10.400	10.400	(1.287)	349685	50.0000	59.78
	182 Epichlorohydrin	57	6.506	6.506	(1.196)	11651	200.000	175.57(M)
	150 Allyl alcohol	57	3.484	3.484	(0.742)	27377	1000.00	1289.84
	162 Butyl acrylate	55	8.639	8.639	(1.069)	223538	50.0000	49.65
	194 Acetaldehyde	44	1.430	1.430	(0.305)	180090	200.000	223.17
	131 Methyl Acrylate	55	4.223	4.223	(0.899)	98096	50.0000	56.49
	133 Ethyl Acrylate	55	5.823	5.823	(1.240)	128805	50.0000	56.94
M	94 1,2-Dichloroethylene (total)	96				190644	100.000	(a)
M	95 Xylenes (total)	106				495178	150.000	(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Column phase: DB624

Instrument: voa10.i
Operator: FT
Column diameter: 0.18

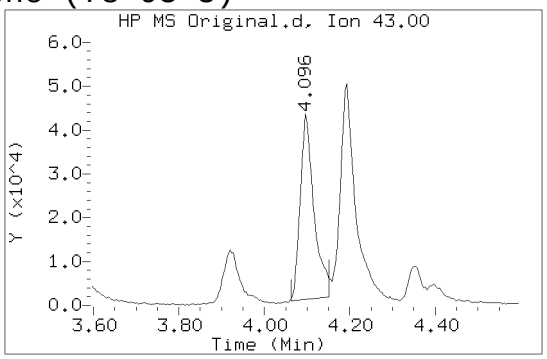
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LabSampID : VSTD050

2-Butanone (78-93-3)

Reason Code:

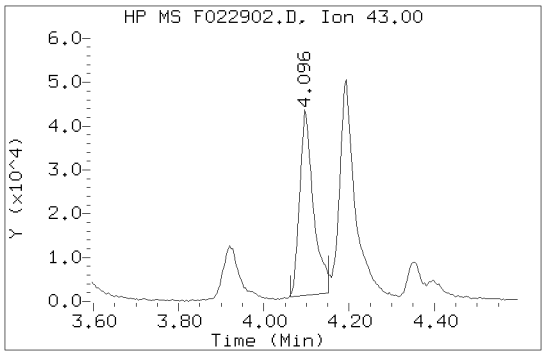
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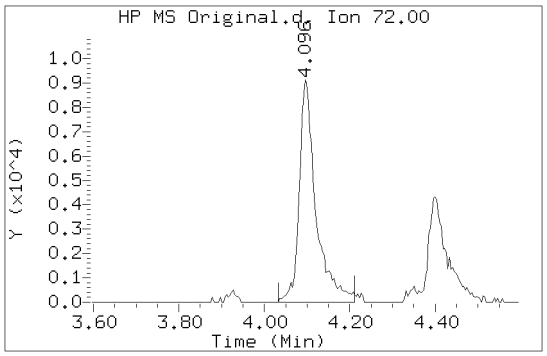
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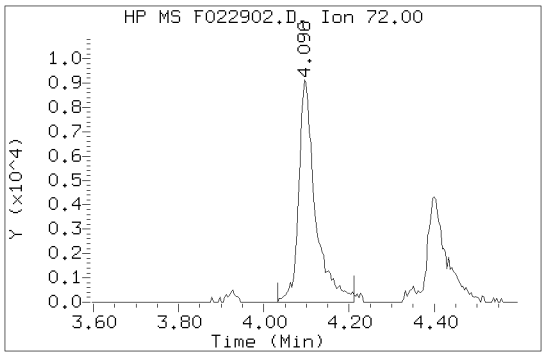
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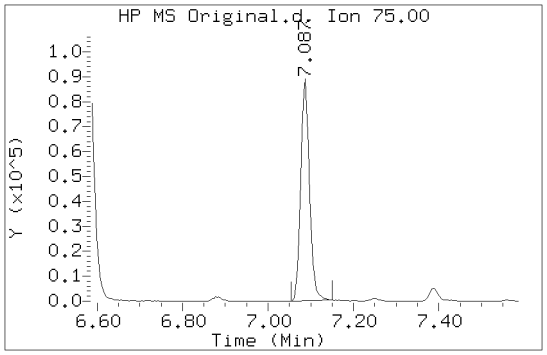


trans-1,3-Dichloropropene (10061-02-6)

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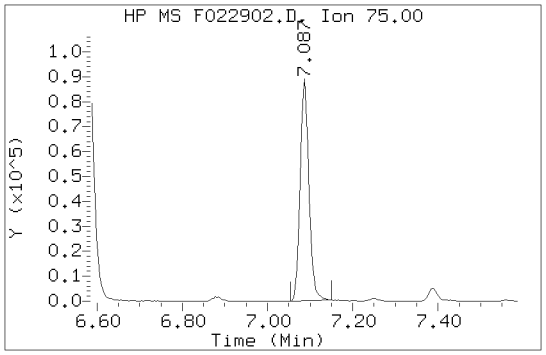
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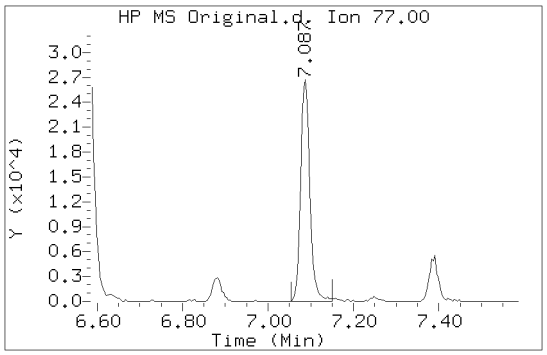
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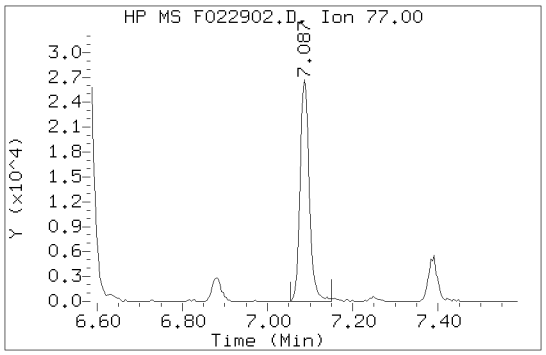
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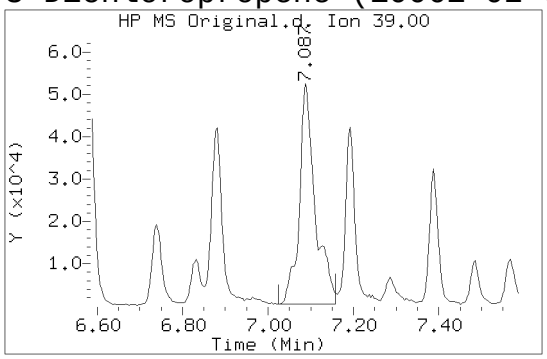
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InstruID : voa10.i
LabSampID : VSTD050

trans-1,3-Dichloropropene (10061-02-6)

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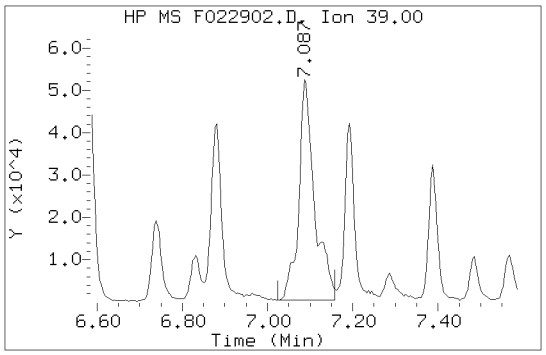
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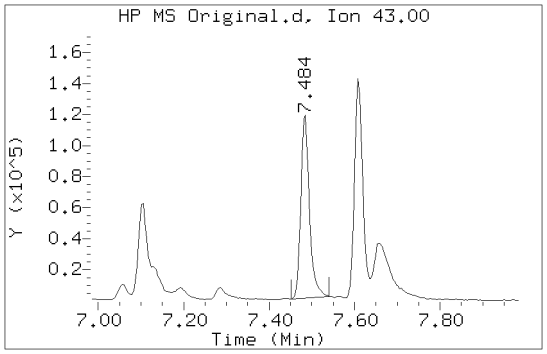


2-Hexanone (591-78-6)

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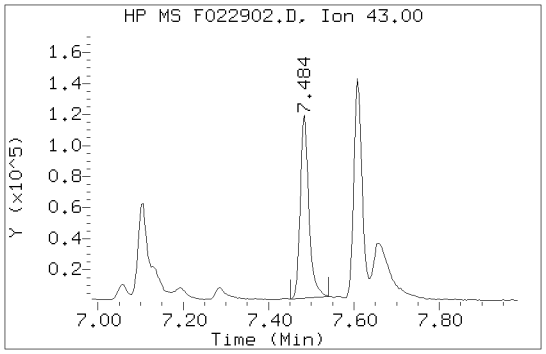
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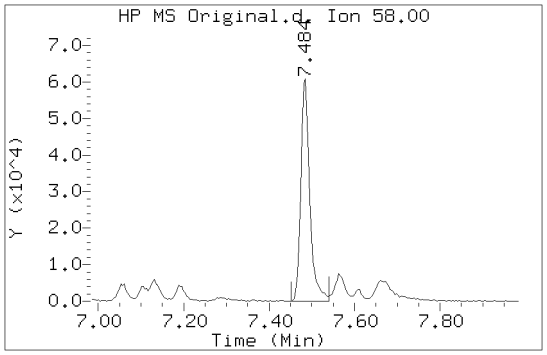
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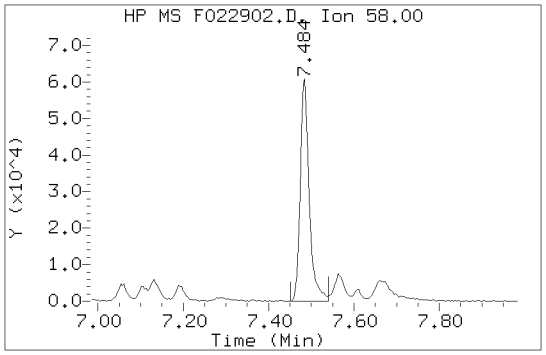
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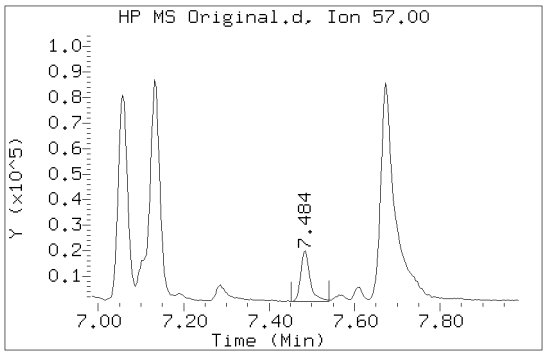
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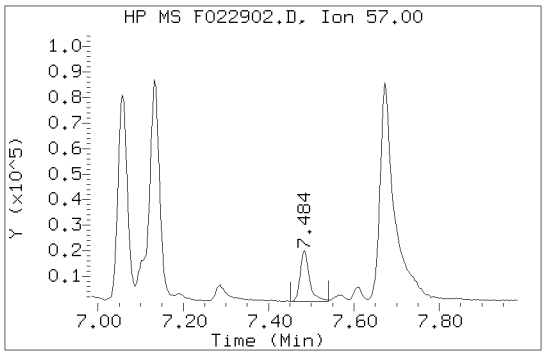
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AFTER

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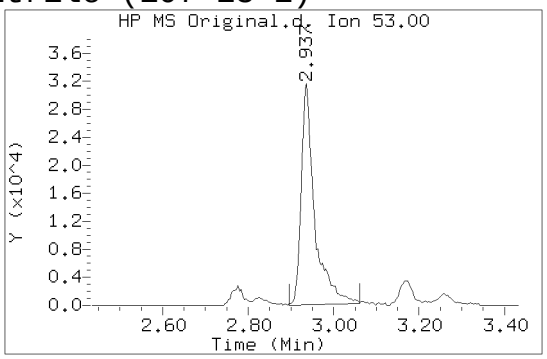
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LabSampID : VSTD050

Acrylonitrile (107-13-1)

Reason Code:

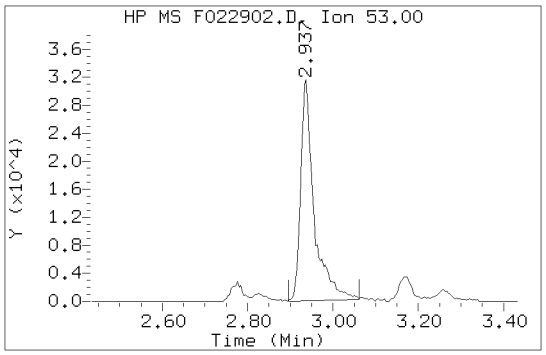
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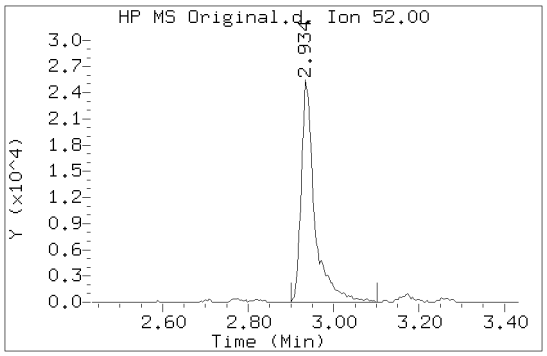
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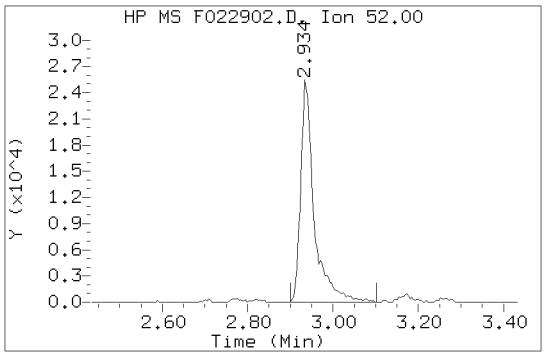
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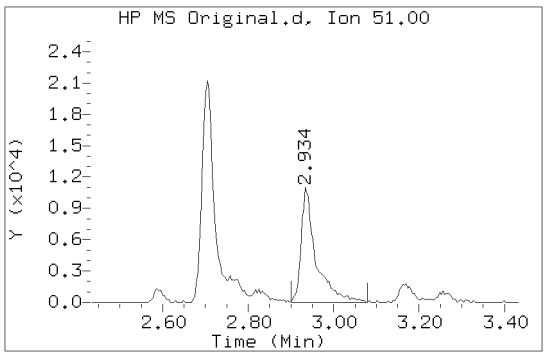
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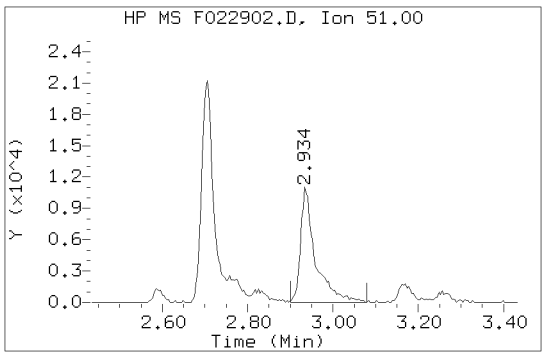
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AFTER

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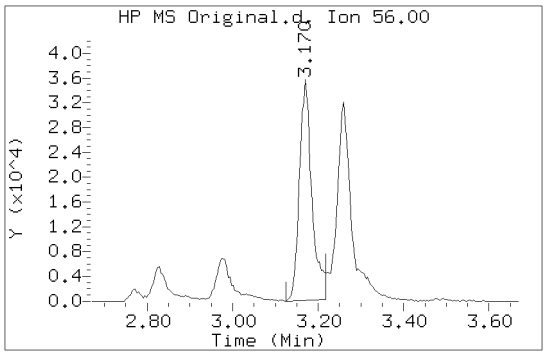


Acrolein (107-02-8)

Reason Code:

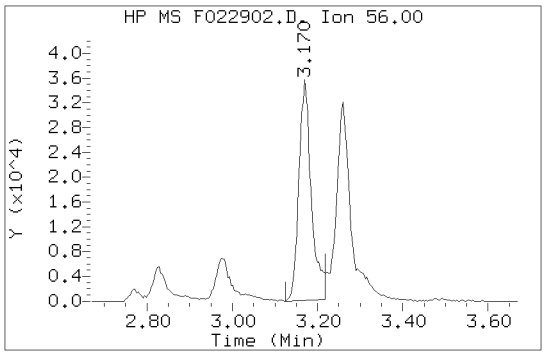
BEFORE

MASS
56
AREA
73987
HEIGHT
35595
11-Mar-2024
13:51
linh
pham



AFTER

MASS
56
AREA
73987
HEIGHT
35595
11-Mar-2024
13:51
linh
pham



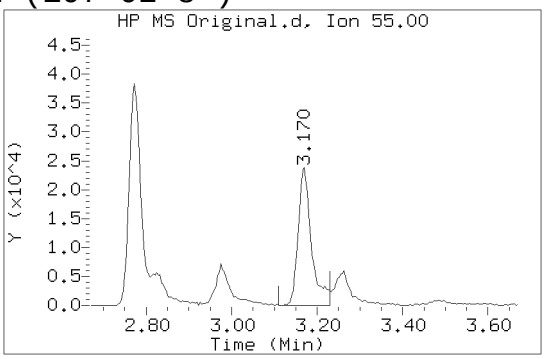
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Inj Date : 29-FEB-2024 09:54
InstruID : voa10.i
LabSampID : VSTD050

Acrolein (107-02-8)

Reason Code:

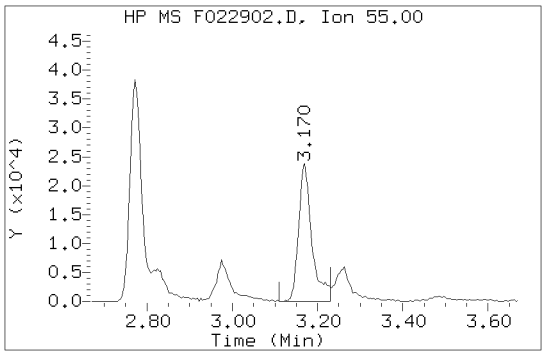
BEFORE

MASS
55
AREA
52583
HEIGHT
23848
11-Mar-2024
13:51
linh
pham



AFTER

MASS
55
AREA
52583
HEIGHT
23848
11-Mar-2024
13:51
linh
pham

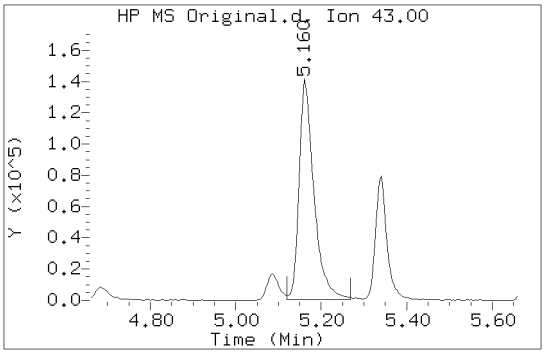


Isobutyl Alcohol (78-83-1)

Reason Code:

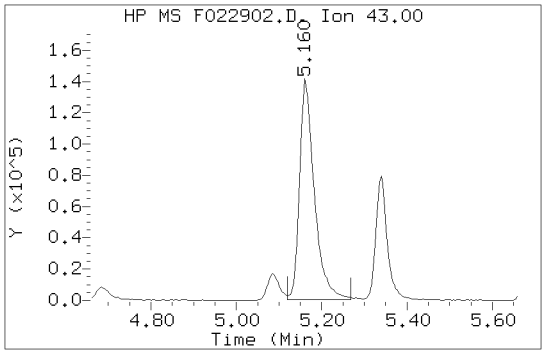
BEFORE

MASS
43
AREA
347293
HEIGHT
141522
11-Mar-2024
13:51
linh
pham



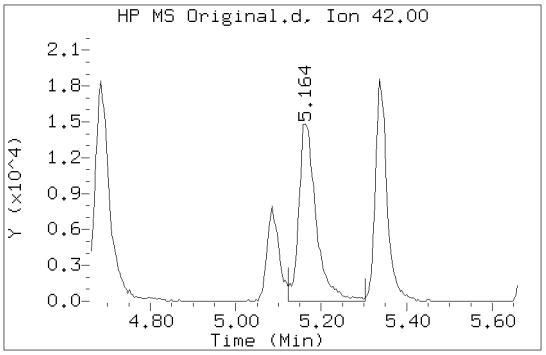
AFTER

MASS
43
AREA
347293
HEIGHT
141522
11-Mar-2024
13:51
linh
pham



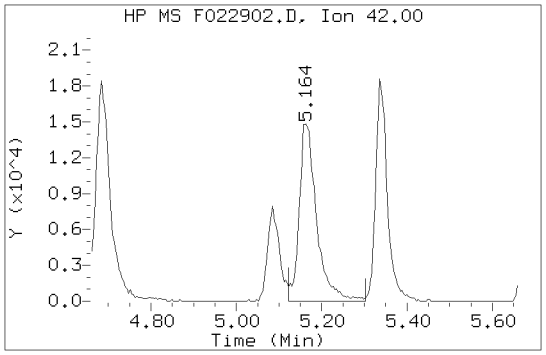
BEFORE

MASS
42
AREA
42865
HEIGHT
14823
11-Mar-2024
13:51
linh
pham



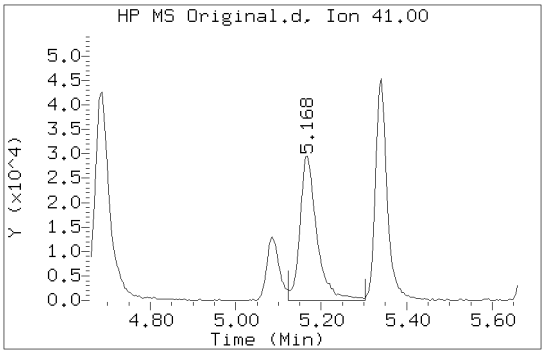
AFTER

MASS
42
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42865
HEIGHT
14823
11-Mar-2024
13:51
linh
pham



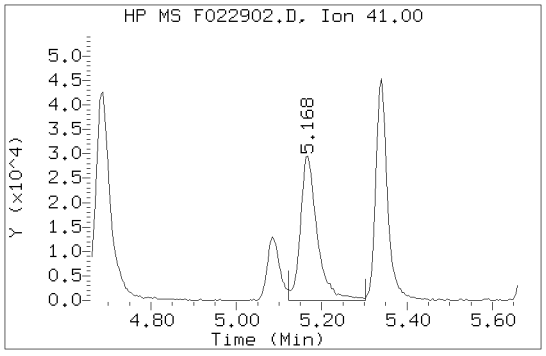
BEFORE

MASS
41
AREA
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HEIGHT
29544
11-Mar-2024
13:51
linh
pham



AFTER

MASS
41
AREA
82708
HEIGHT
29544
11-Mar-2024
13:51
linh
pham



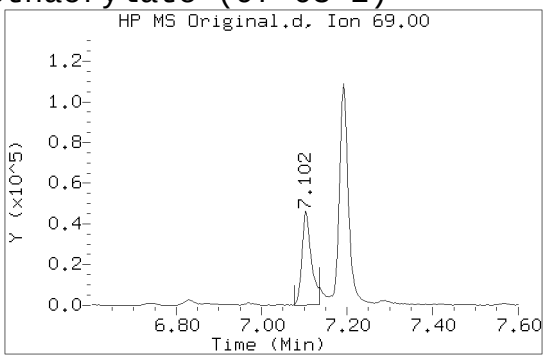
Data File : \\NAHSTWS005\Target\chem\voa10.i\F240229.b\F022902.D
Inj Date : 29-FEB-2024 09:54
InstruID : voa10.i
LabSampID : VSTD050

Ethyl Methacrylate (97-63-2)

Reason Code:

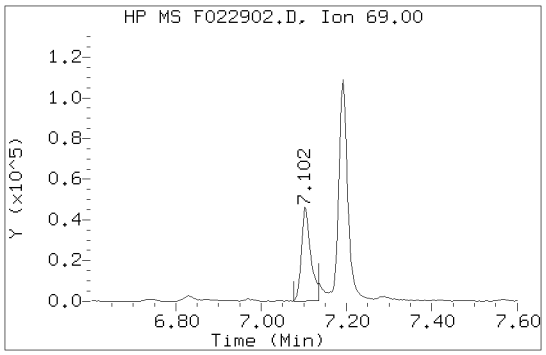
BEFORE

MASS
69
AREA
73359
HEIGHT
46305
11-Mar-2024
13:51
linh
pham



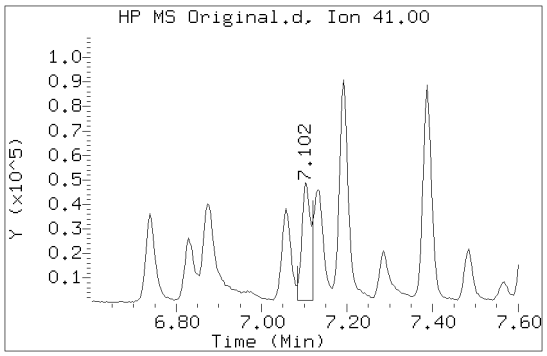
AFTER

MASS
69
AREA
73359
HEIGHT
46305
11-Mar-2024
13:51
linh
pham



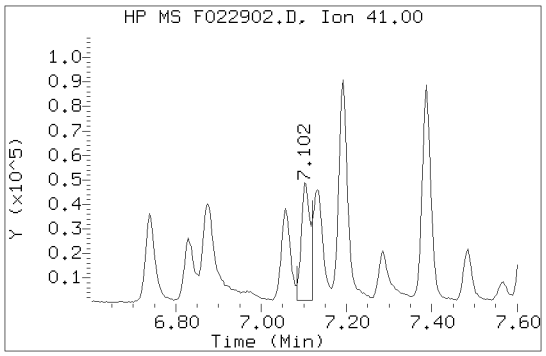
BEFORE

MASS
41
AREA
75675
HEIGHT
47871
11-Mar-2024
13:51
linh
pham



AFTER

MASS
41
AREA
75675
HEIGHT
47871
11-Mar-2024
13:51
linh
pham

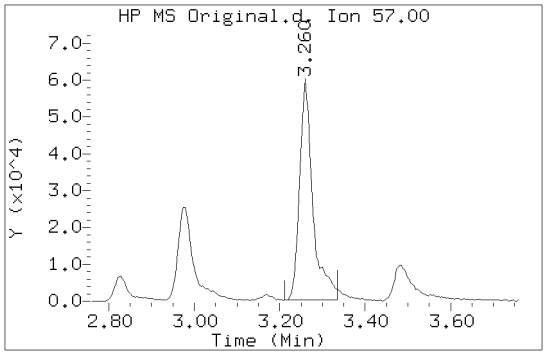


n-Hexane (110-54-3)

Reason Code:

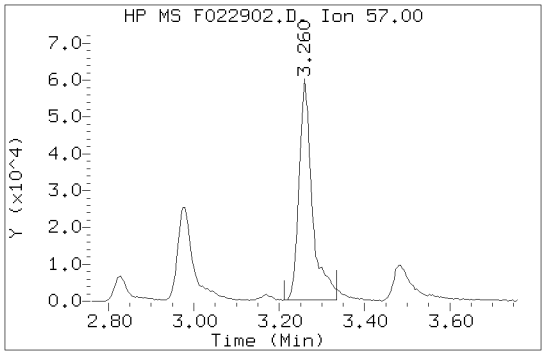
BEFORE

MASS
57
AREA
132168
HEIGHT
60064
11-Mar-2024
13:51
linh
pham



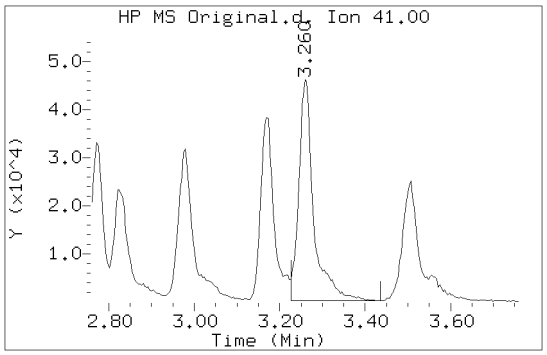
AFTER

MASS
57
AREA
132168
HEIGHT
60064
11-Mar-2024
13:51
linh
pham



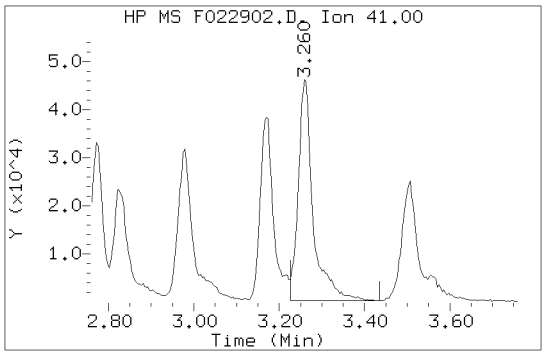
BEFORE

MASS
41
AREA
113987
HEIGHT
46042
11-Mar-2024
13:51
linh
pham



AFTER

MASS
41
AREA
113987
HEIGHT
46042
11-Mar-2024
13:51
linh
pham



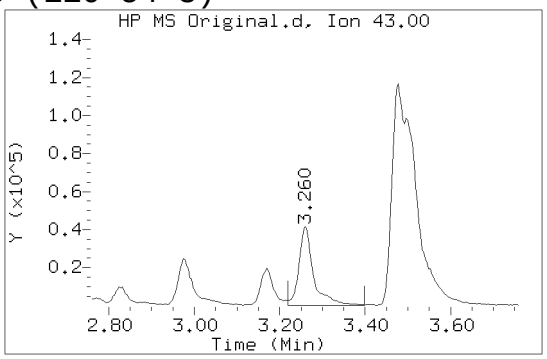
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Inj Date : 29-FEB-2024 09:54
InstruID : voa10.i
LabSampID : VSTD050

n-Hexane (110-54-3)

Reason Code:

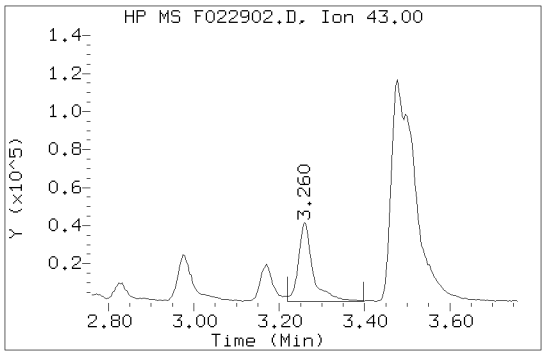
BEFORE

MASS
43
AREA
98765
HEIGHT
41336
11-Mar-2024
13:51
linh
pham



AFTER

MASS
43
AREA
98765
HEIGHT
41336
11-Mar-2024
13:51
linh
pham

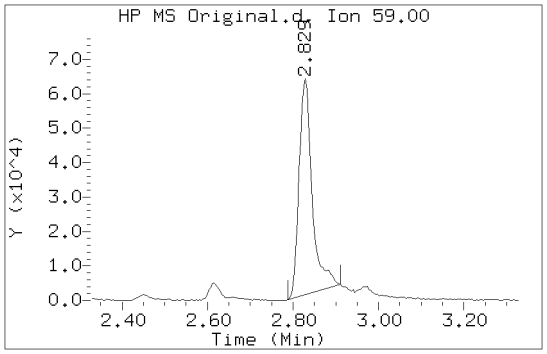


Diethyl ether (60-29-7)

Reason Code:

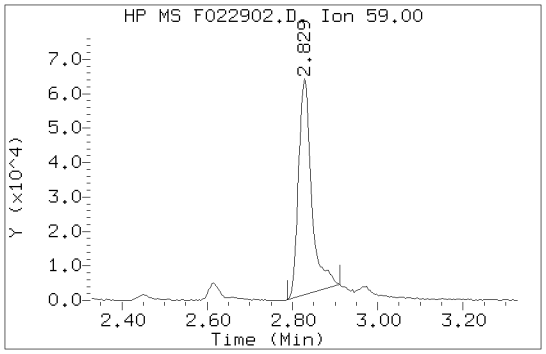
BEFORE

MASS
59
AREA
135394
HEIGHT
62640
11-Mar-2024
13:51
linh
pham



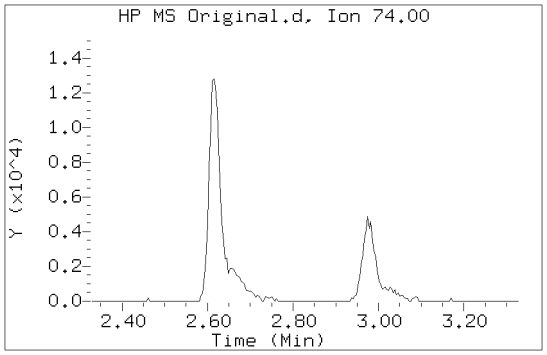
AFTER

MASS
59
AREA
135394
HEIGHT
62640
11-Mar-2024
13:51
linh
pham



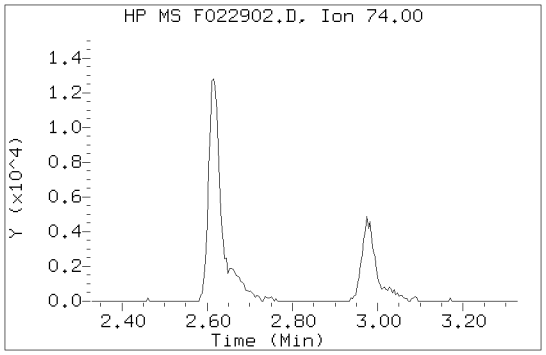
BEFORE

MASS
74
AREA
0
HEIGHT
0
11-Mar-2024
13:51
linh
pham



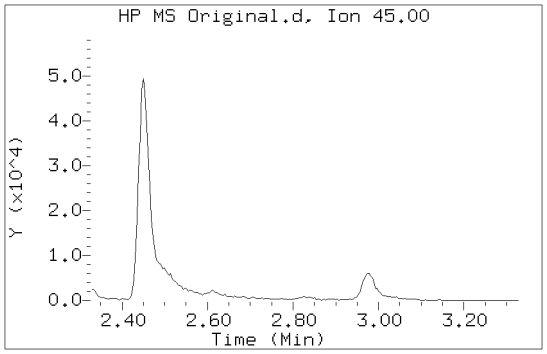
AFTER

MASS
74
AREA
0
HEIGHT
0
11-Mar-2024
13:51
linh
pham



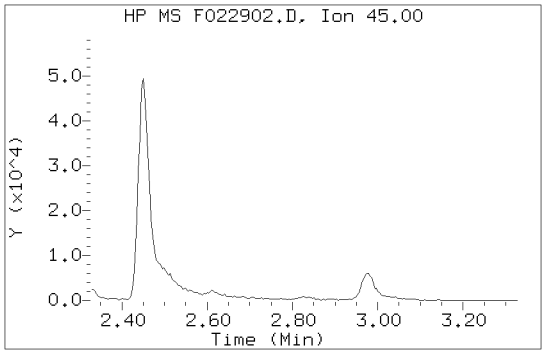
BEFORE

MASS
45
AREA
0
HEIGHT
0
11-Mar-2024
13:51
linh
pham



AFTER

MASS
45
AREA
0
HEIGHT
0
11-Mar-2024
13:51
linh
pham



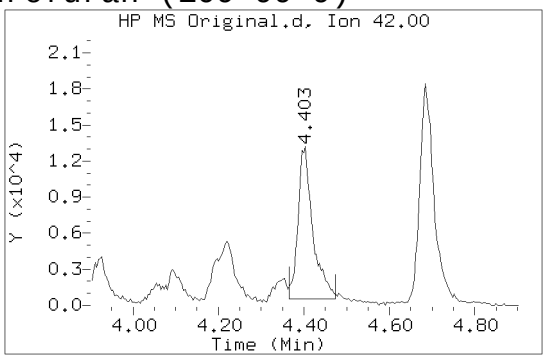
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Inj Date : 29-FEB-2024 09:54
InstruID : voa10.i
LabSampID : VSTD050

Tetrahydrofuran (109-99-9)

Reason Code:

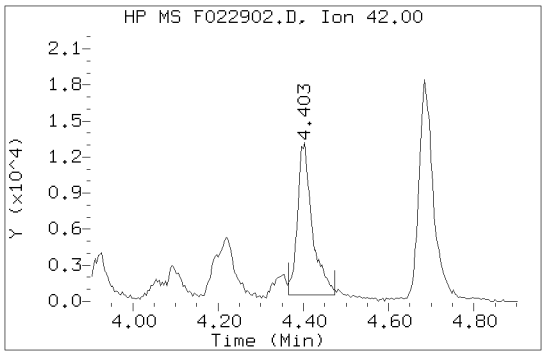
BEFORE

MASS
42
AREA
30999
HEIGHT
12675
11-Mar-2024
13:51
linh
pham



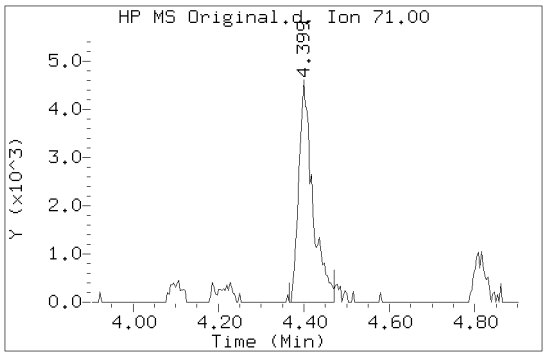
AFTER

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AREA
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HEIGHT
12675
11-Mar-2024
13:51
linh
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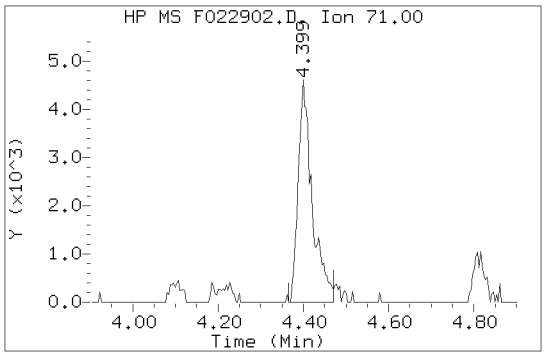
BEFORE

MASS
71
AREA
10685
HEIGHT
4613
11-Mar-2024
13:51
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pham



AFTER

MASS
71
AREA
10685
HEIGHT
4613
11-Mar-2024
13:51
linh
pham

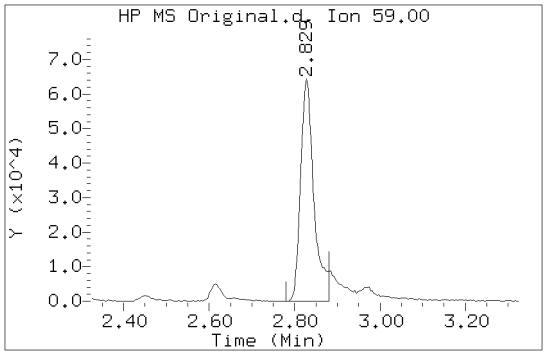


Tert-butyl alcohol (75-65-0)

Reason Code:

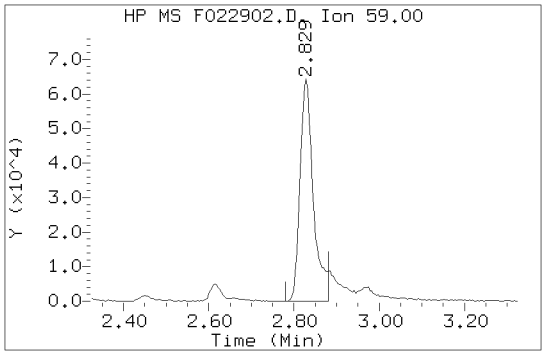
BEFORE

MASS
59
AREA
143101
HEIGHT
64376
11-Mar-2024
13:51
linh
pham



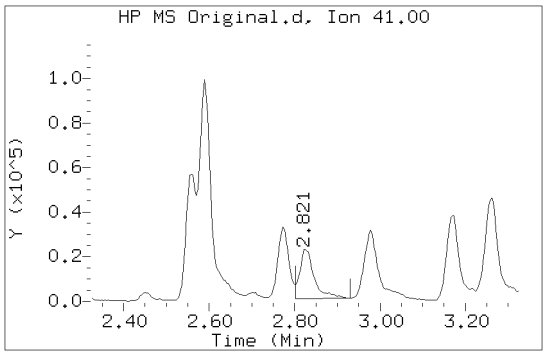
AFTER

MASS
59
AREA
143101
HEIGHT
64376
11-Mar-2024
13:51
linh
pham



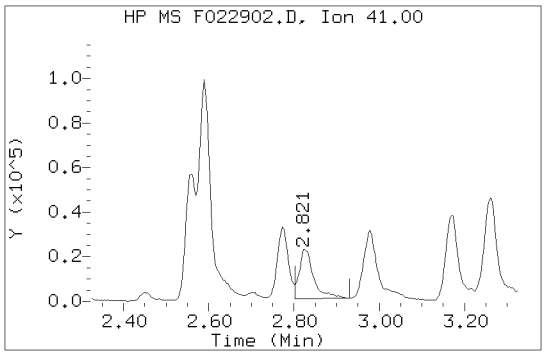
BEFORE

MASS
41
AREA
53416
HEIGHT
22283
11-Mar-2024
13:51
linh
pham



AFTER

MASS
41
AREA
53416
HEIGHT
22283
11-Mar-2024
13:51
linh
pham



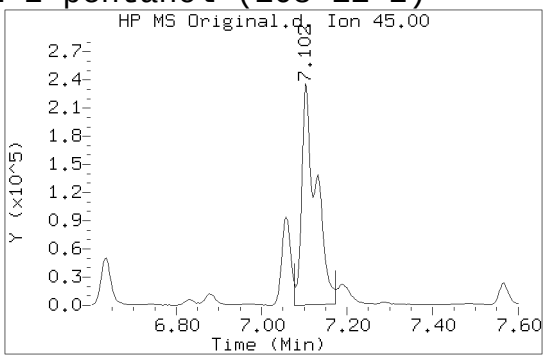
Data File : \\NAHSTWS005\Target\chem\voa10.i\F240229.b\F022902.D
Inj Date : 29-FEB-2024 09:54
InstruID : voa10.i
LabSampID : VSTD050

4-Methyl-2-pentanol (108-11-2)

Reason Code:

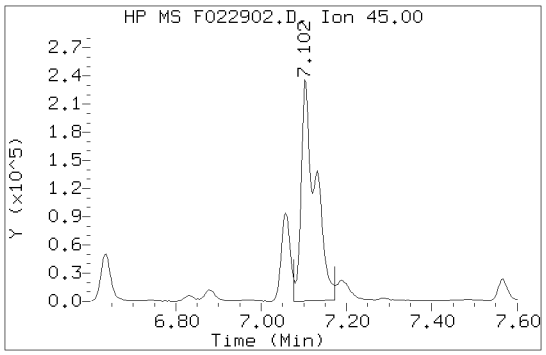
BEFORE

MASS
45
AREA
566983
HEIGHT
235669
11-Mar-2024
13:51
linh
pham



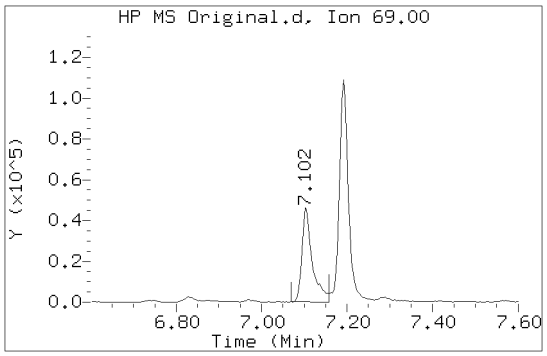
AFTER

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AREA
566983
HEIGHT
235669
11-Mar-2024
13:51
linh
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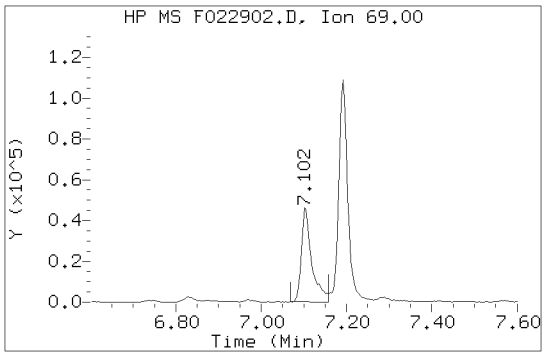
BEFORE

MASS
69
AREA
80192
HEIGHT
46216
11-Mar-2024
13:51
linh
pham



AFTER

MASS
69
AREA
80192
HEIGHT
46216
11-Mar-2024
13:51
linh
pham

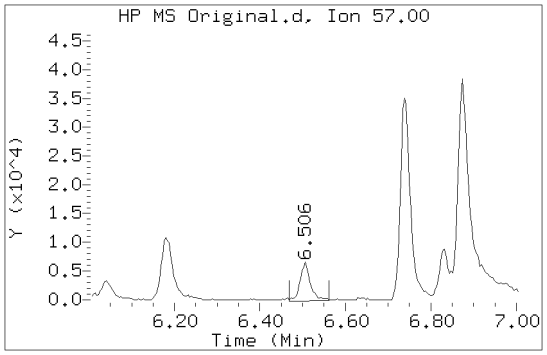


Epichlorohydrin (106-89-8)

Reason Code:

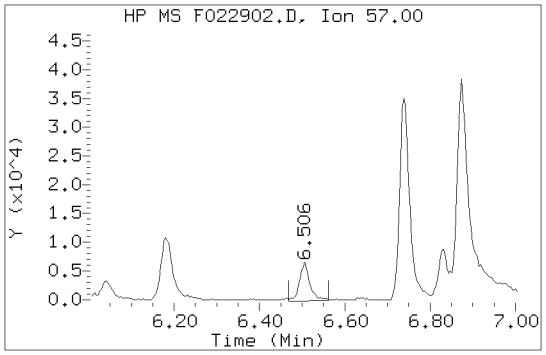
BEFORE

MASS
57
AREA
11651
HEIGHT
6810
11-Mar-2024
13:51
linh
pham



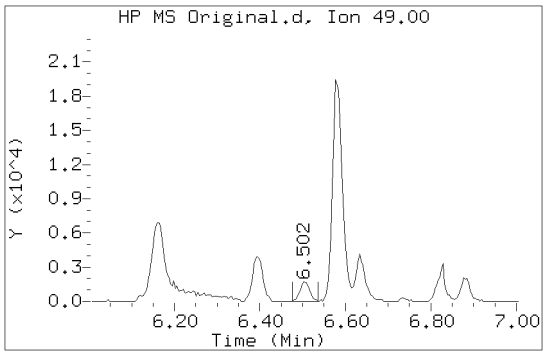
AFTER

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AREA
11651
HEIGHT
6810
11-Mar-2024
13:51
linh
pham



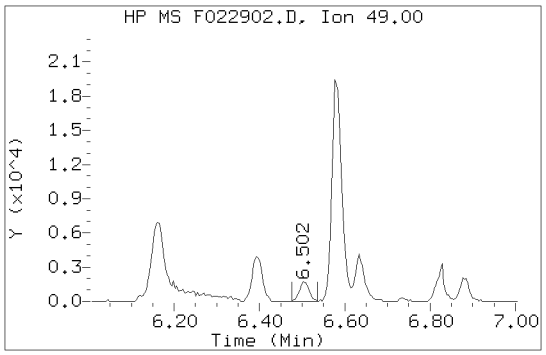
BEFORE

MASS
49
AREA
2819
HEIGHT
1769
11-Mar-2024
13:51
linh
pham



AFTER

MASS
49
AREA
2819
HEIGHT
1769
11-Mar-2024
13:51
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa10.i\F240229.b\F022904.D Page 1
Report Date: 11-Mar-2024 13:52

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa10.i\F240229.b\F022904.D
Lab Smp Id: VLCSW-240229 Client Smp ID: VLCSW-240229
Inj Date : 29-FEB-2024 10:36
Operator : FT Inst ID: voa10.i
Smp Info : VLCSW-240229;VLCSW-240229;3;;LCS
Misc Info : V10;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa10.i\F240229.b\8260W.m
Meth Date : 11-Mar-2024 13:51 voa10.i Quant Type: ISTD
Cal Date : 28-FEB-2024 18:12 Cal File: F022805.D
Als bottle: 3 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 01_STD_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.695	4.695	(1.000)	201639	50.0000	
2 Dichlorodifluoromethane	85	1.152	1.153	(0.246)	38172	21.9379	21.93
3 Chloromethane	50	1.280	1.280	(0.273)	74214	20.2440	20.24
4 Propionitrile	54	4.151	4.155	(0.884)	50481	216.155	216.15(a)
5 Vinyl Chloride	62	1.355	1.355	(0.289)	51270	21.4296	21.42
6 Bromomethane	94	1.587	1.584	(0.338)	16340	19.7008	19.70
7 Chloroethane	64	1.662	1.662	(0.354)	29543	20.8254	20.82
8 Trichlorofluoromethane	101	1.853	1.857	(0.395)	54933	23.2189	23.21
9 Acrolein	56	3.169	3.169	(0.675)	27637	45.6365	45.63
10 Acetone	43	2.315	2.318	(0.493)	43049	55.4294	55.42
11 1,1-Dichloroethene	96	2.270	2.270	(0.483)	28504	19.7746	19.77
12 Isobutyl Alcohol	43	5.160	5.160	(1.099)	128805	463.454	463.45
13 Acetonitrile	39	2.588	2.588	(0.551)	51746	203.024	203.02
14 Allyl Chloride	41	2.584	2.588	(0.551)	89453	25.8991	25.89
15 Iodomethane	142	2.397	2.397	(0.511)	58093	58.1039	58.10
16 Acrylonitrile	53	2.933	2.937	(0.625)	28027	46.6154	46.61
17 Methylene Chloride	84	2.704	2.704	(0.576)	39413	23.0025	23.00
18 Methyl tert-butyl ether	73	2.974	2.974	(0.634)	114037	23.5880	23.58
19 Carbon Disulfide	76	2.453	2.453	(0.523)	220662	47.1586	47.15
20 trans-1,2-Dichloroethene	96	2.963	2.967	(0.631)	39142	22.9521	22.95

21 Vinyl Acetate	43	3.473	3.477 (0.740)	190175	46.3934	46.39
22 1,1-Dichloroethane	63	3.398	3.398 (0.724)	78357	22.4846	22.48

Data File: \\NAHSTWS005\Target\chem\voa10.i\F240229.b\F022904.D Page 2
Report Date: 11-Mar-2024 13:52

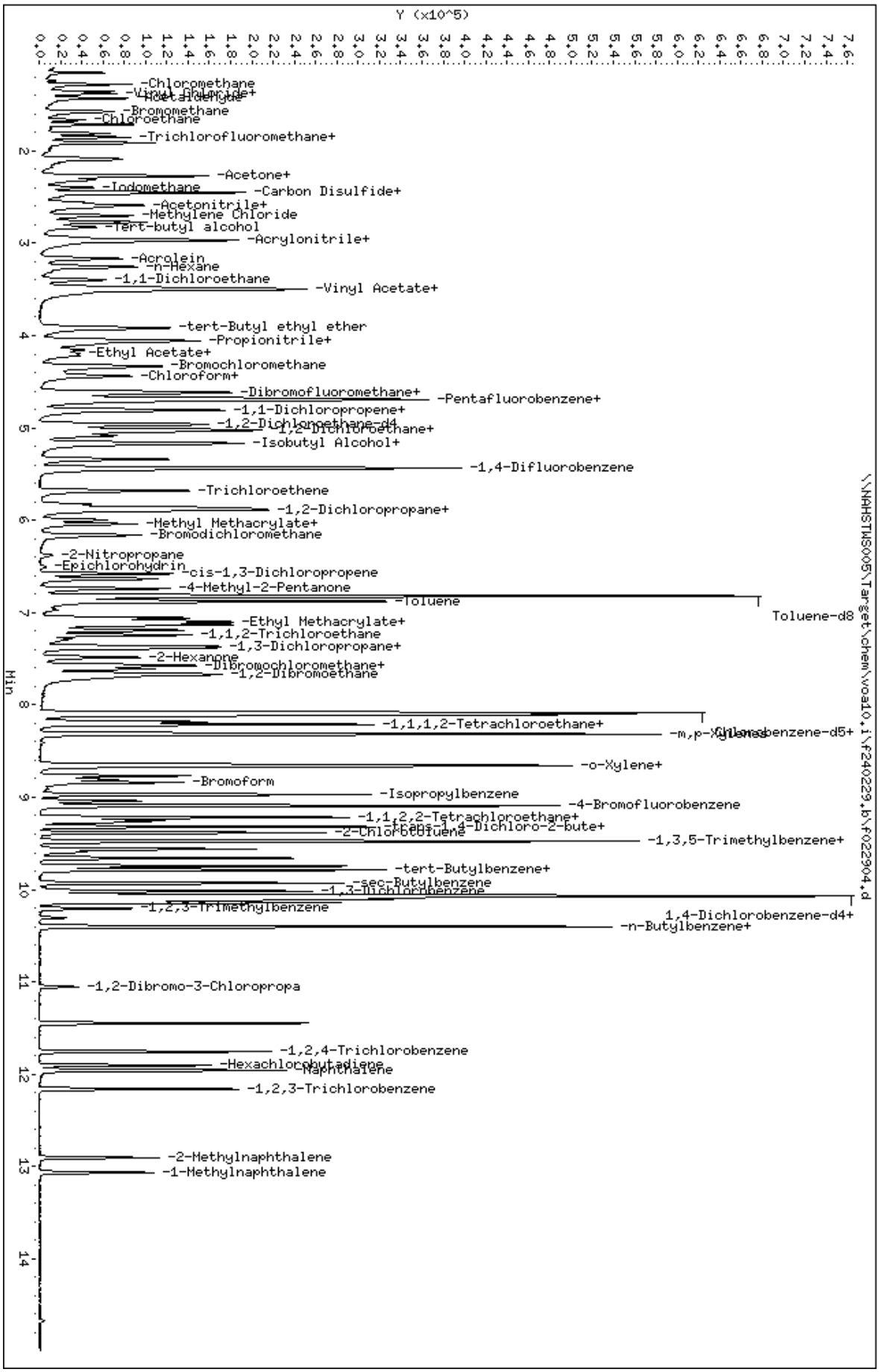
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	24 2-Butanone	43	4.095	4.095	(0.872)	36475	45.5030	45.50
	25 Methacrylonitrile	41	4.054	4.054	(0.863)	42877	24.0546	24.05
	26 2,2-Dichloropropane	77	4.058	4.058	(0.864)	58060	24.4485	24.44
	27 cis-1,2-Dichloroethene	96	4.061	4.061	(0.865)	41595	22.1311	22.13
	28 Chloroform	83	4.436	4.440	(0.945)	73133	24.2721	24.27
	29 Bromochloromethane	128	4.328	4.335	(0.922)	18494	24.2246	24.22
$	30 Dibromofluoromethane	113	4.609	4.613	(0.982)	89515	59.2793	59.27
	31 1,1,1-Trichloroethane	97	4.624	4.627	(0.985)	60353	23.5087	23.50
	32 1,1-Dichloropropene	75	4.807	4.811	(0.884)	59231	21.3309	21.33
	33 1,2-Dichloroethane	62	5.044	5.044	(0.928)	61296	22.4866	22.48
	34 Carbon Tetrachloride	117	4.807	4.807	(0.884)	48951	23.1586	23.15
$	35 1,2-Dichloroethane-d4	65	4.961	4.965	(1.057)	120761	57.4285	57.42(M)
*	36 1,4-Difluorobenzene	114	5.437	5.437	(1.000)	316444	50.0000	
	37 Benzene	78	5.021	5.021	(0.923)	177709	21.0788	21.07
	38 Trichloroethene	130	5.681	5.681	(1.045)	40329	21.3506	21.35
	39 Bromodichloromethane	83	6.161	6.161	(1.133)	54982	22.0855	22.08
	40 Methyl Methacrylate	41	6.041	6.044	(1.287)	43910	21.6925	21.69
	42 1,2-Dichloropropane	63	5.891	5.891	(1.083)	50086	22.0271	22.02
	43 2-Nitropropane	43	6.374	6.378	(1.358)	8951	25.5659	25.56
	44 Dibromomethane	93	5.996	5.996	(1.103)	23786	23.6446	23.64
	45 4-Methyl-2-Pentanone	43	6.738	6.738	(0.834)	90184	38.6055	38.60
	46 cis-1,3-Dichloropropene	75	6.581	6.581	(1.210)	64486	22.7009	22.70
*	47 Chlorobenzene-d5	117	8.084	8.084	(1.000)	267490	50.0000	
$	48 Toluene-d8	98	6.820	6.820	(0.844)	369937	53.6112	53.61
	49 Ethyl Methacrylate	69	7.105	7.102	(1.307)	25871	20.1202	20.12
	50 Toluene	91	6.880	6.880	(0.851)	166374	20.2302	20.23
	51 trans-1,3-Dichloropropene	75	7.087	7.087	(1.303)	51134	23.4217	23.42
	52 2-Hexanone	43	7.484	7.484	(0.926)	64873	45.1173	45.11
	53 1,1,2-Trichloroethane	83	7.244	7.244	(0.896)	31228	22.2103	22.21
	54 1,3-Dichloropropane	76	7.386	7.386	(0.914)	68310	22.1372	22.13
	55 Dibromochloromethane	129	7.581	7.581	(0.938)	37333	22.5227	22.52
	56 Tetrachloroethene	164	7.364	7.364	(0.911)	29855	20.7458	20.74
	57 1,2-Dibromoethane	107	7.675	7.671	(0.949)	34407	22.2586	22.25
	58 1-Chlorohexane	55	8.102	8.106	(1.490)	42913	22.3170	22.31
	59 Chlorobenzene	112	8.110	8.110	(1.003)	100269	20.6202	20.62
	60 1,1,1,2-Tetrachloroethane	131	8.181	8.185	(1.012)	35737	21.2448	21.24
	61 Ethylbenzene	106	8.211	8.211	(1.016)	53993	21.9784	21.97
	62 m,p-Xylenes	106	8.316	8.316	(1.029)	132028	41.8708	41.87
	63 o-Xylene	106	8.654	8.654	(1.070)	64519	21.2074	21.20
	64 Styrene	104	8.665	8.665	(1.072)	112448	22.8953	22.89
	66 Bromoform	173	8.811	8.811	(1.090)	24715	22.0139	22.01
	67 Isopropylbenzene	105	8.972	8.972	(1.110)	163581	21.3607	21.36
	68 1,1,2,2-Tetrachloroethane	83	9.220	9.220	(0.916)	46615	21.9892	21.98
$	69 4-Bromofluorobenzene	95	9.092	9.092	(1.125)	131904	53.1443	53.14
*	70 1,4-Dichlorobenzene-d4	152	10.070	10.071	(1.000)	139886	50.0000	
	71 1,2,3-Trichloropropane	75	9.253	9.253	(0.919)	50501	19.8328	19.83
	72 trans-1,4-Dichloro-2-butene	53	9.272	9.272	(1.147)	11818	21.8674	21.86
	73 n-Propylbenzene	91	9.321	9.321	(0.926)	198193	22.6860	22.68
	74 Bromobenzene	156	9.216	9.216	(0.915)	44873	22.0117	22.01
	75 1,3,5-Trimethylbenzene	105	9.471	9.471	(0.940)	137019	22.6326	22.63
	76 2-Chlorotoluene	91	9.384	9.385	(0.932)	121515	22.0477	22.04
	77 4-Chlorotoluene	91	9.478	9.478	(0.941)	141306	22.3090	22.30

78	tert-Butylbenzene	119	9.744	9.744 (0.968)	111984	22.1912	22.19
79	1,2,4-Trimethylbenzene	105	9.786	9.786 (0.972)	139246	22.6550	22.65

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	81 sec-Butylbenzene	105	9.932	9.932	(0.986)	155761	22.5453	22.54
	82 p-Isopropyltoluene	119	10.056	10.056	(0.999)	138015	23.3988	23.39
	83 1,3-Dichlorobenzene	146	10.014	10.014	(0.994)	81227	21.9376	21.93
	84 1,4-Dichlorobenzene	146	10.089	10.093	(1.002)	83238	21.0797	21.07
	87 n-Butylbenzene	91	10.400	10.400	(1.033)	133793	22.9702	22.97
	88 1,2-Dichlorobenzene	146	10.404	10.404	(1.033)	80713	22.0015	22.00
	89 1,2-Dibromo-3-Chloropropane	155	11.056	11.053	(1.098)	6276	20.8307	20.83
	90 1,2,4-Trichlorobenzene	180	11.754	11.754	(1.167)	54666	23.7065	23.70
	91 Hexachlorobutadiene	225	11.907	11.907	(1.182)	26030	24.5225	24.52
	92 Naphthalene	128	11.960	11.956	(1.188)	122154	20.7617	20.76
	93 1,2,3-Trichlorobenzene	180	12.162	12.162	(1.208)	47902	23.4984	23.49
	135 1,4-Dioxane	88	6.041	6.041	(1.287)	5587	459.697	459.69(a)
	130 Ethyl Acetate	43	4.189	4.193	(0.892)	49850	23.8116	23.81
	136 n-Hexane	57	3.259	3.259	(0.694)	52035	24.7446	24.74
	138 Freon TF	101	2.273	2.277	(0.484)	34711	23.6280	23.62
	141 Cyclohexane	56	4.684	4.687	(0.998)	74795	23.7953	23.79
	142 Tetrahydrofuran	42	4.395	4.403	(0.936)	11311	40.7291	40.72
	146 Methyl Acetate	43	2.611	2.614	(0.556)	57396	23.3974	23.39
	147 Methylcyclohexane	55	5.861	5.861	(1.078)	68296	22.1423	22.14
	148 Tert-butyl alcohol	59	2.824	2.828	(0.602)	46316	369.534	369.53
	149 Isopropyl alcohol	45	2.446	2.450	(0.521)	33162	420.210	420.20
	151 4-Methyl-2-pentanol	45	7.105	7.102	(1.307)	99230	223.153	223.15
	156 Diisopropyl ether	45	3.499	3.503	(0.745)	175594	22.3632	22.36
	158 Dichlorofluoromethane	67	1.812	1.812	(0.386)	58353	20.6232	20.62
	166 1,2,3-Trimethylbenzene	105	10.142	10.142	(1.007)	125930	21.8814	21.88
	160 2-Methylnaphthalene	142	12.904	12.904	(1.281)	45348	21.1353	21.13
	180 1-Methylnaphthalene	142	13.062	13.062	(1.297)	42574	21.8214	21.82
	174 tert-Amyl methyl ether	73	5.171	5.171	(1.101)	119466	23.5015	23.50
	175 tert-Butyl ethyl ether	59	3.919	3.923	(0.835)	135787	23.3983	23.39
	132 n-Butanol	56	5.861	5.865	(1.248)	19825	420.097	420.09(a)
	140 1,3-Butadiene	54	1.377	1.381	(0.293)	15053	20.2113	20.21
	189 n-Butyl acetate	43	7.608	7.608	(0.941)	64942	18.9792	18.97
	86 Benzyl Chloride	91	10.400	10.400	(1.287)	133793	22.7076	22.70
	182 Epichlorohydrin	57	6.506	6.506	(1.196)	4275	67.9961	67.99
	150 Allyl alcohol	57	3.480	3.484	(0.741)	8062	417.379	417.37
	162 Butyl acrylate	55	8.642	8.639	(1.069)	76822	18.3673	18.36
	194 Acetaldehyde	44	1.430	1.430	(0.305)	70782	86.6696	86.66
	131 Methyl Acrylate	55	4.219	4.223	(0.899)	37683	22.7487	22.74
	133 Ethyl Acrylate	55	5.827	5.823	(1.241)	45595	21.1277	21.12
M	94 1,2-Dichloroethylene (total)	96				80737	45.0832	45.08
M	95 Xylenes (total)	106				196547	63.0782	63.07

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Date : 29-FEB-2024 10:36
Client ID: VLCSW-240229
Sample Info: VLCSW-240229;VLCSW-240229;3;;LCS
Purge Volume: 5.0
Column phase: DB624

Instrument: voa10.i
Operator: FT
Column diameter: 0.18

\\NAHSTWS005\Target\chem\voa10.i\f240229.b\f022904.d

Page 1

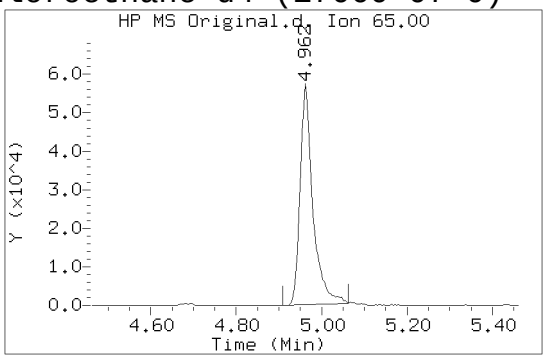
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Inj Date : 29-FEB-2024 10:36
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LabSampID : VLCSW-240229

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

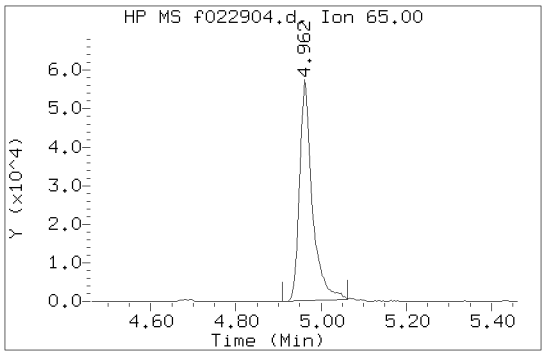
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11-Mar-2024
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pham



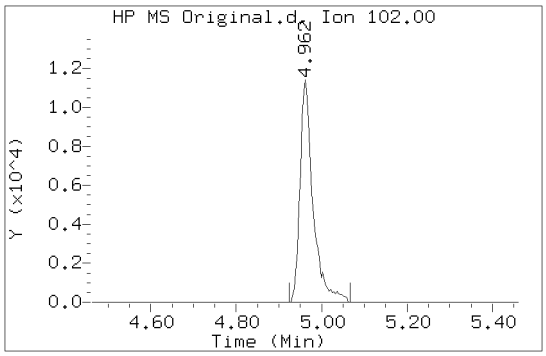
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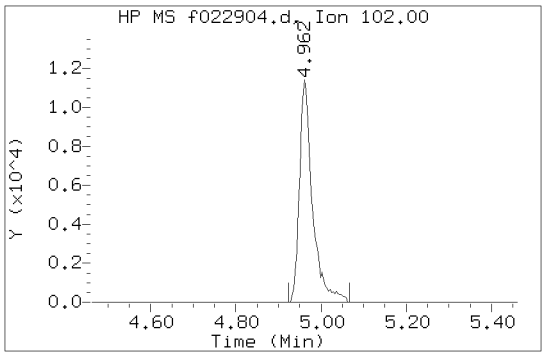
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AFTER

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11-Mar-2024
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linh
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Data File: \\NAHSTWS005\Target\chem\voa10.i\F240229.b\F022906.D Page 1
Report Date: 11-Mar-2024 13:52

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa10.i\F240229.b\F022906.D
Lab Smp Id: VBLKW-240229 Client Smp ID: VBLKW-240229
Inj Date : 29-FEB-2024 11:18
Operator : FT Inst ID: voa10.i
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Misc Info : V10;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa10.i\F240229.b\8260W.m
Meth Date : 11-Mar-2024 13:51 voa10.i Quant Type: ISTD
Cal Date : 28-FEB-2024 18:12 Cal File: F022805.D
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 01_STD_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

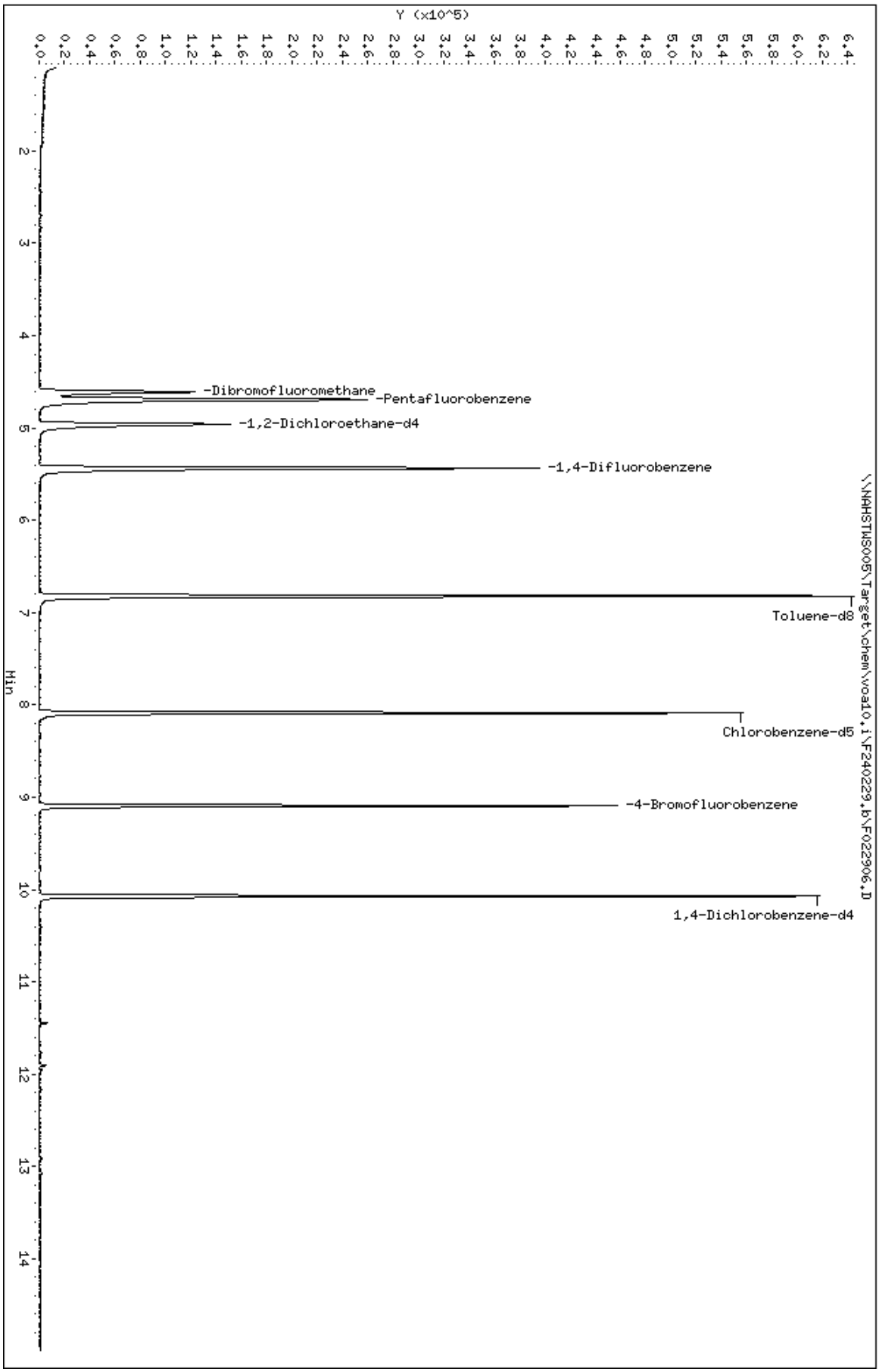
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.695	4.695	(1.000)	205305	50.0000	
$ 30 Dibromofluoromethane	113	4.609	4.613	(0.982)	88195	57.2591	57.25
$ 35 1,2-Dichloroethane-d4	65	4.961	4.965	(1.057)	120119	56.0041	56.00
* 36 1,4-Difluorobenzene	114	5.437	5.437	(1.000)	313800	50.0000	
* 47 Chlorobenzene-d5	117	8.084	8.084	(1.000)	256485	50.0000	
$ 48 Toluene-d8	98	6.820	6.820	(0.844)	368639	55.8289	55.82(M)
$ 69 4-Bromofluorobenzene	95	9.096	9.092	(1.125)	124005	52.0485	52.04
* 70 1,4-Dichlorobenzene-d4	152	10.070	10.071	(1.000)	132255	50.0000	

QC Flag Legend

M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\voa10.i\F240229.b\F022906.D
Date : 29-FEB-2024 11:18
Client ID: VBLKW-240229
Sample Info: VBLKW-240229;VBLKW-240229;3;;BLANK
Purge Volume: 5.0
Column phase: DB624

Instrument: voa10.i
Operator: FT
Column diameter: 0.18

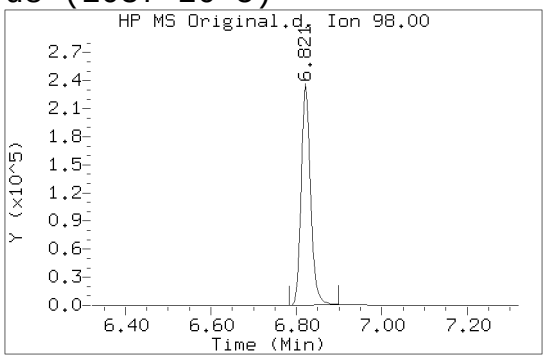


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Inj Date : 29-FEB-2024 11:18
InstruID : voa10.i
LabSampID : VBLKW-240229

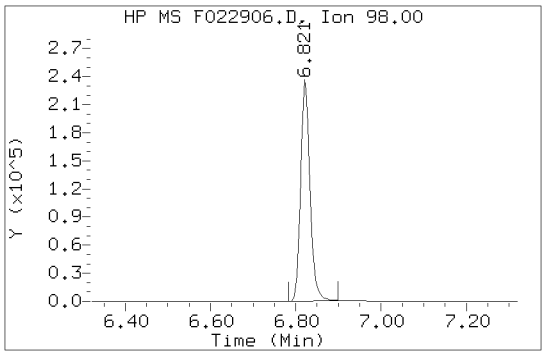
Toluene-d8 (2037-26-5)

Reason Code:

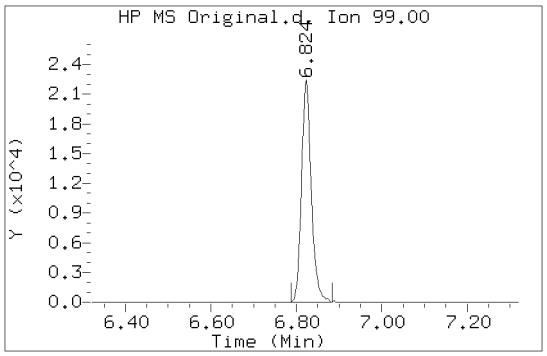
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11-Mar-2024
13:51
linh
pham



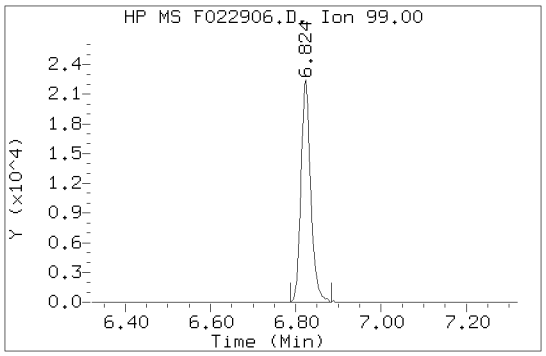
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HEIGHT
236371
11-Mar-2024
13:51
linh
pham



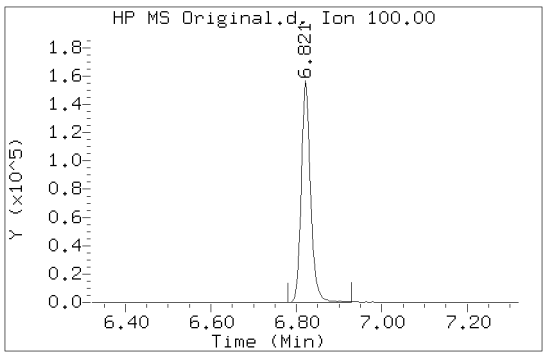
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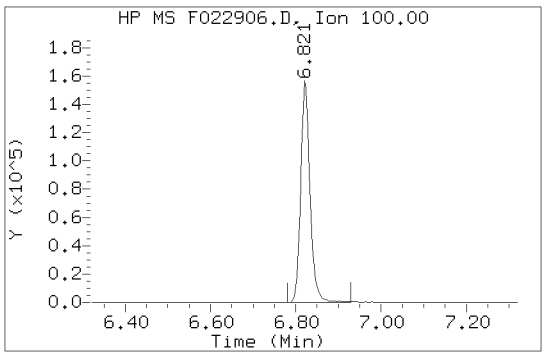
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BEFORE
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156736
11-Mar-2024
13:51
linh
pham



AFTER
MASS
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HEIGHT
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11-Mar-2024
13:51
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pham



Data File: \\NAHSTWS005\Target\chem\voa10.i\F240229.b\F022907.D Page 1
Report Date: 21-Mar-2024 10:27

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa10.i\F240229.b\F022907.D
Lab Smp Id: HS24021563-02
Inj Date : 29-FEB-2024 11:46
Operator : FT   Inst ID: voa10.i
Smp Info : HS24021563-02;;;
Misc Info : V10;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa10.i\F240229.b\8260W.m
Meth Date : 12-Mar-2024 12:00 Linh.Pham Quant Type: ISTD
Cal Date : 28-FEB-2024 18:12   Cal File: F022805.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 01_STD_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

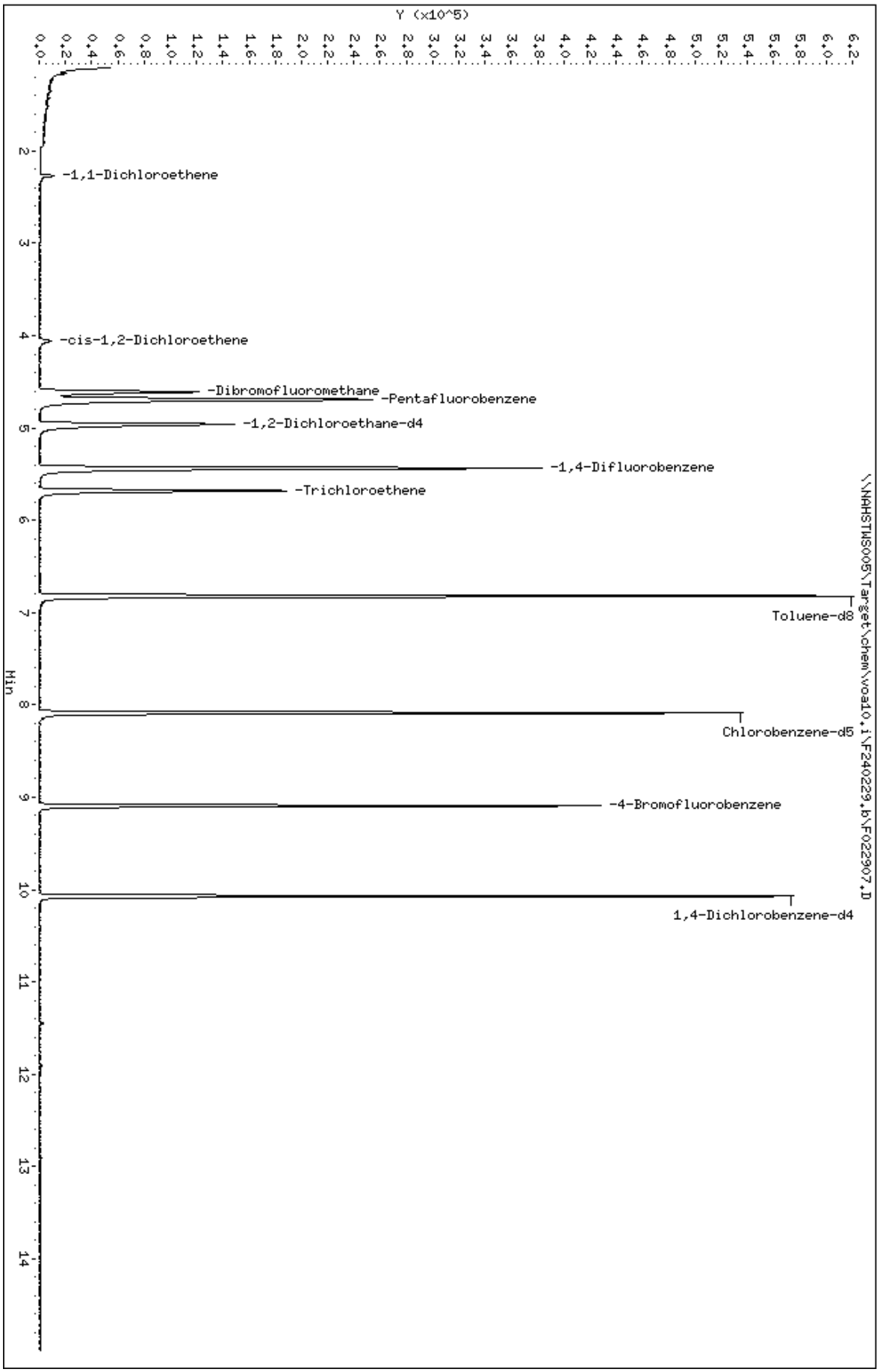
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
*	1 Pentafluorobenzene	168	4.695	4.695	(1.000)	204477	50.0000	
	11 1,1-Dichloroethene	96	2.266	2.266	(0.483)	4422	3.02518	3.02(aH)
	27 cis-1,2-Dichloroethene	96	4.058	4.061	(0.864)	5079	2.66483	2.66(a)
$	30 Dibromofluoromethane	113	4.612	4.613	(0.982)	84986	55.3021	55.30
$	35 1,2-Dichloroethane-d4	65	4.961	4.961	(1.057)	117642	55.0025	55.00
*	36 1,4-Difluorobenzene	114	5.437	5.437	(1.000)	303296	50.0000	
	38 Trichloroethene	130	5.681	5.681	(1.045)	62579	34.5662	34.56
*	47 Chlorobenzene-d5	117	8.084	8.084	(1.000)	245309	50.0000	
$	48 Toluene-d8	98	6.820	6.820	(0.844)	359822	57.0380	57.03
$	69 4-Bromofluorobenzene	95	9.092	9.092	(1.125)	117197	51.3977	51.39
*	70 1,4-Dichlorobenzene-d4	152	10.074	10.071	(1.000)	124662	50.0000	
M	94 1,2-Dichloroethylene (total)	96				5079	2.66483	2.66(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
H - Operator selected an alternate compound hit.



Data File: \\NAHSTWS005\Target\chem\voa10,i\F240229,b\F022907,D
Date : 29-FEB-2024 11:46
Client ID:
Sample Info: HS24021563-02;;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa10,i
Operator: FT
Column diameter: 0.18

Data File: \\NAHSTWS005\Target\chem\voa10.i\F240229.b\F022907.D Page 2

Date : 29-FEB-2024 11:46

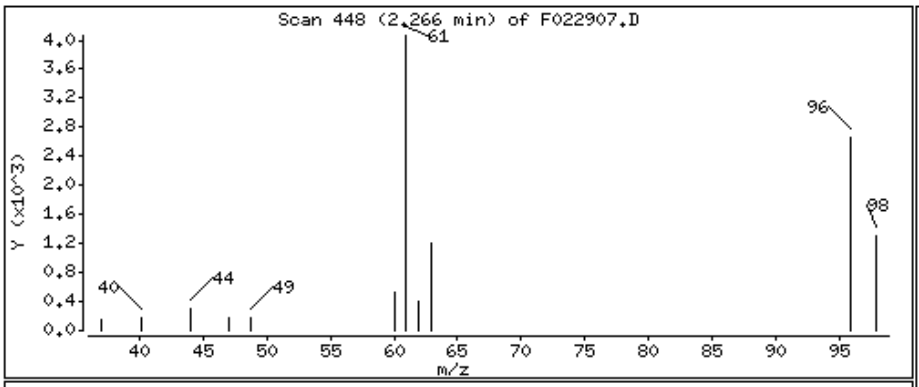
Client ID: Instrument: voa10.i

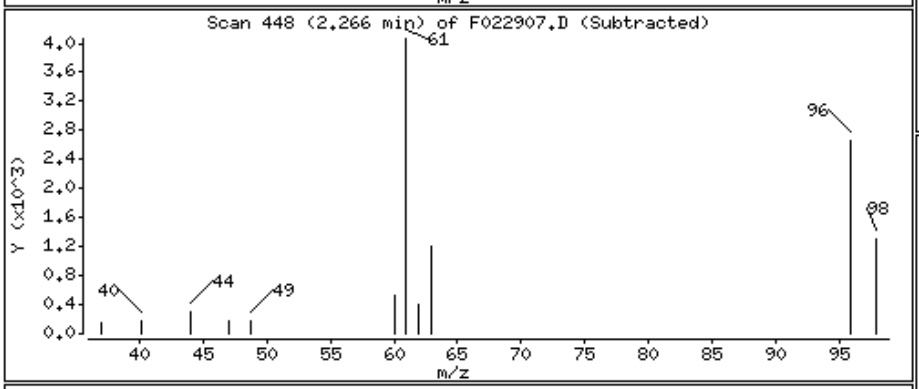
Sample Info: HS24021563-02;;;

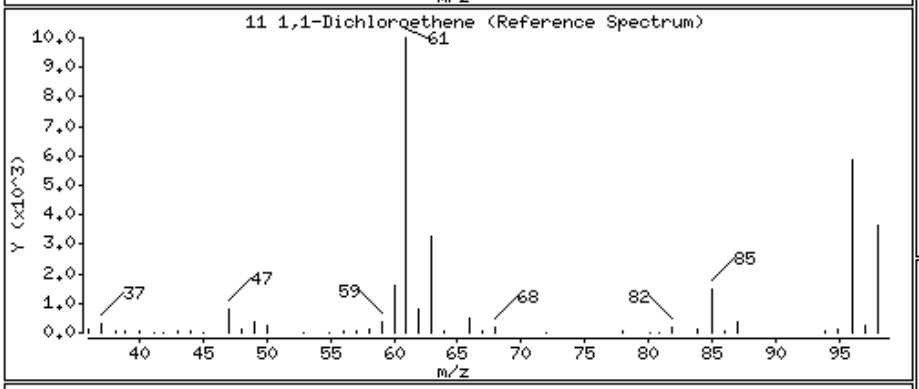
Purge Volume: 5.0 Operator: FT

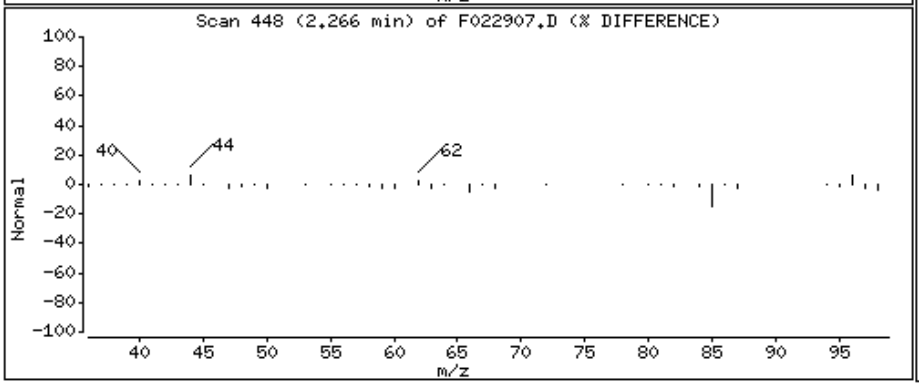
Column phase: DB624 Column diameter: 0.18

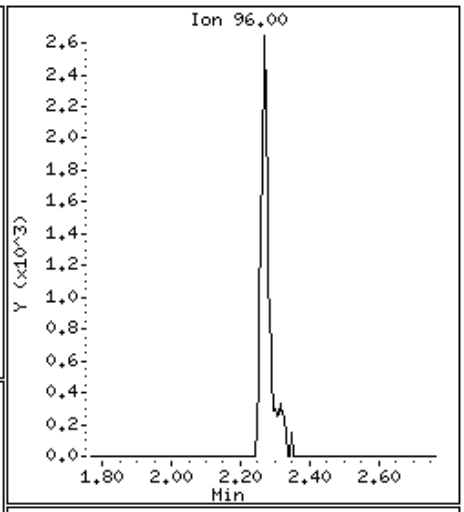
11 1,1-Dichloroethene Concentration: 3.02 ug/l

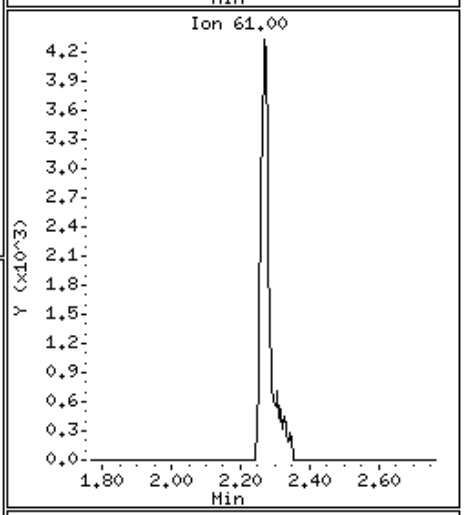


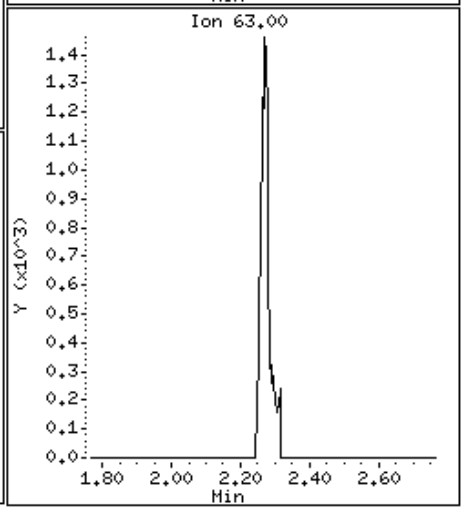












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240229.b\F022907.D Page 3

Date : 29-FEB-2024 11:46

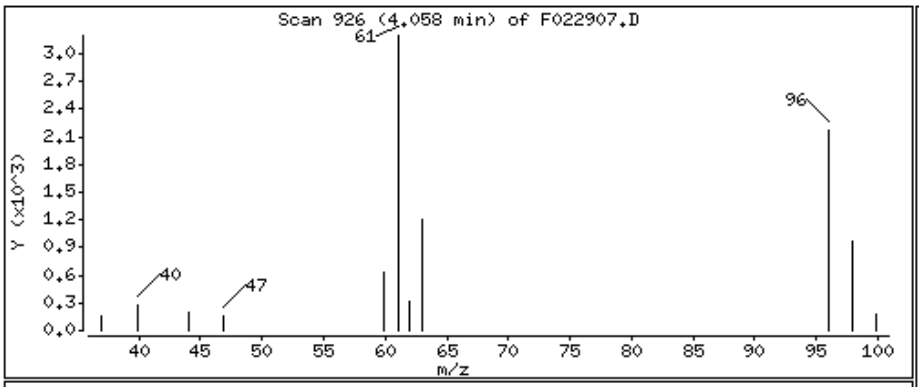
Client ID: Instrument: voa10.i

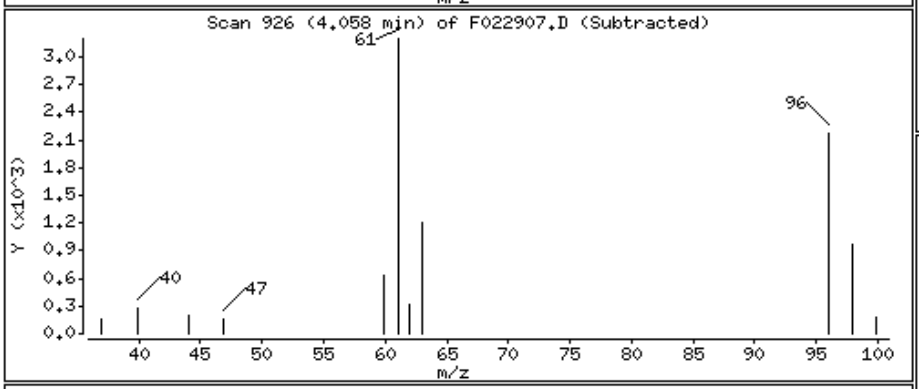
Sample Info: HS24021563-02;;;

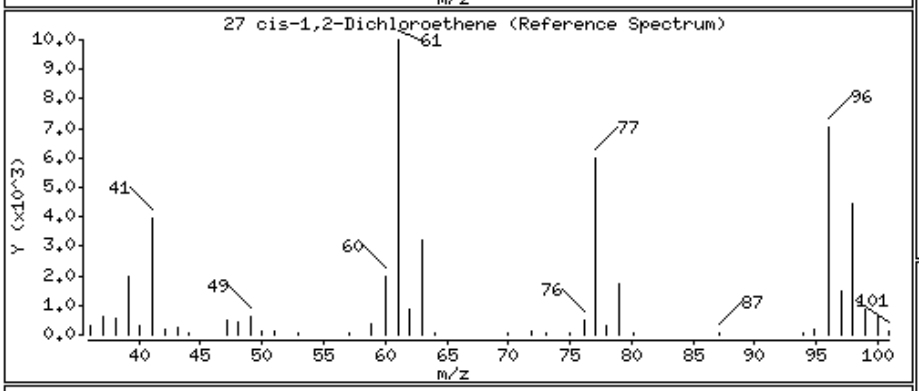
Purge Volume: 5.0 Operator: FT

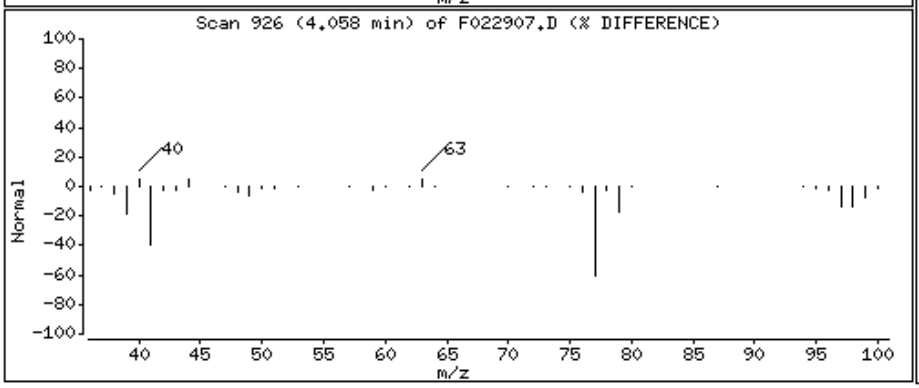
Column phase: DB624 Column diameter: 0.18

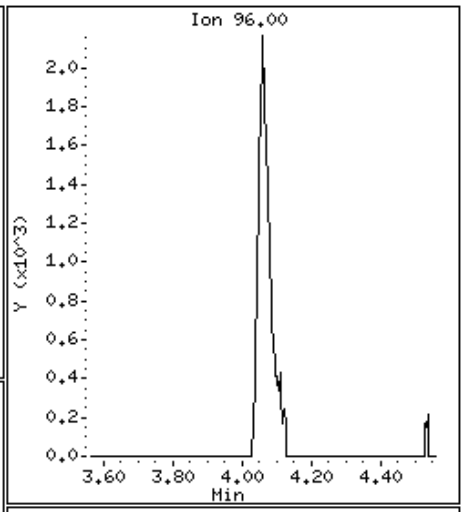
27 cis-1,2-Dichloroethene Concentration: 2.66 ug/l

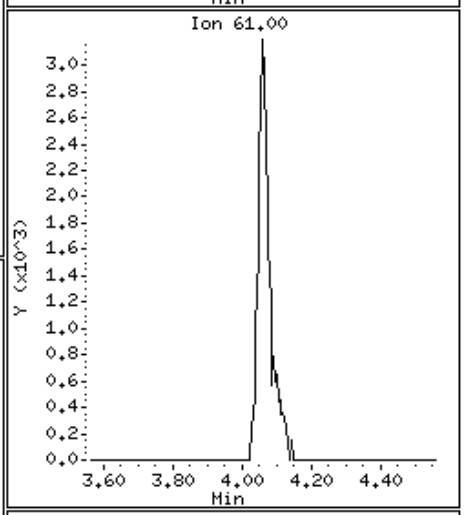


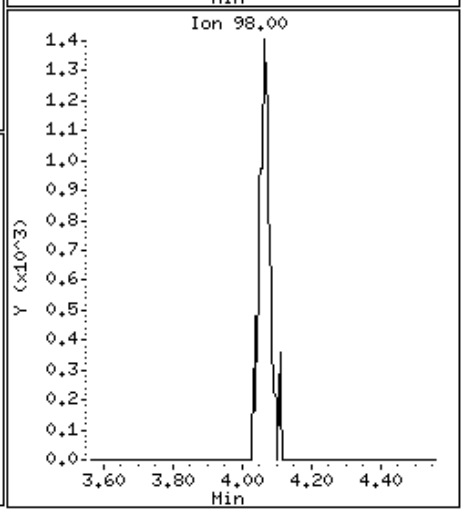












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240229.b\F022907.D Page 4

Date : 29-FEB-2024 11:46

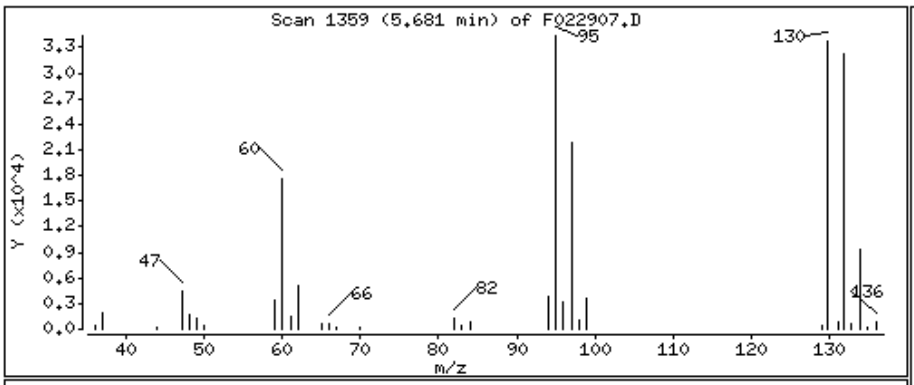
Client ID: Instrument: voa10.i

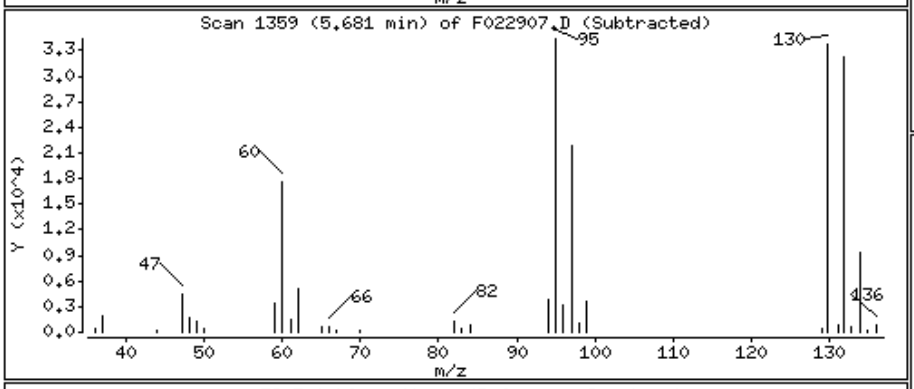
Sample Info: HS24021563-02;;;

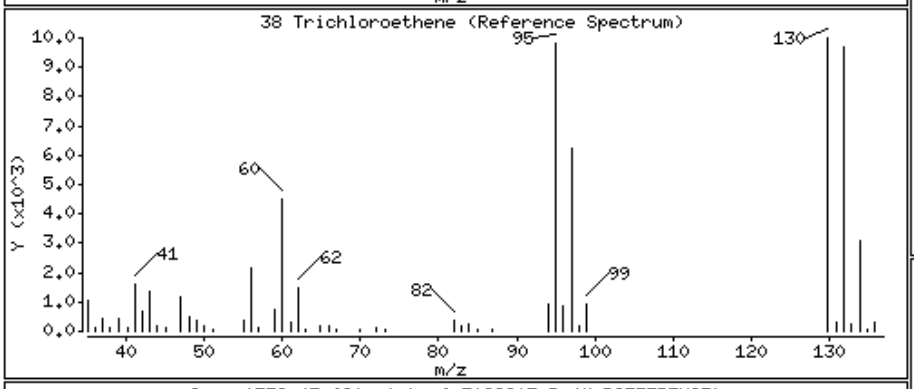
Purge Volume: 5.0 Operator: FT

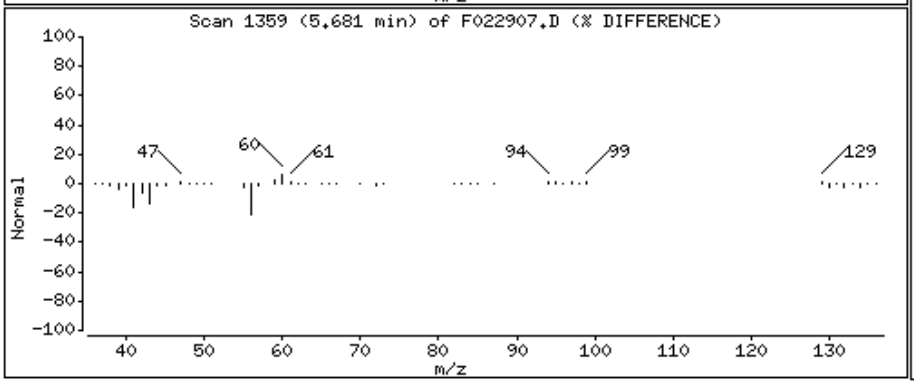
Column phase: DB624 Column diameter: 0.18

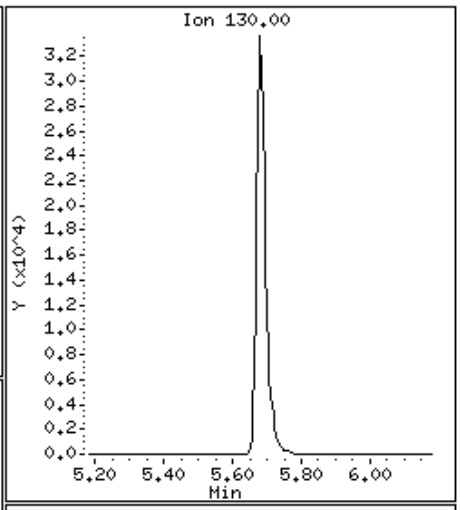
38 Trichloroethene Concentration: 34.56 ug/l

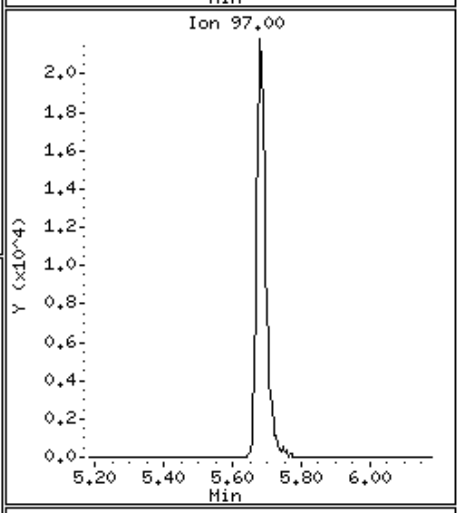


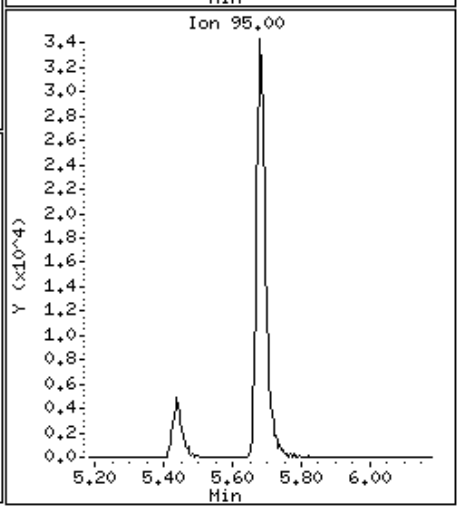












Data File : \\NAHSTWS005\Target\chem\voa10.i\F240229.b\F022907.D
Inj Date : 29-FEB-2024 11:46
InstruID : voa10.i
LabSampID : HS24021563-02

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa10.i\F240229.b\F022909.D Page 1
Report Date: 11-Mar-2024 13:52

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa10.i\F240229.b\F022909.D
Lab Smp Id: HS24021563-02MS Client Smp ID: HS24021563-02MS
Inj Date : 29-FEB-2024 12:28
Operator : FT Inst ID: voa10.i
Smp Info : HS24021563-02MS;HS24021563-02MS;3;;MS
Misc Info : V10;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa10.i\F240229.b\8260W.m
Meth Date : 11-Mar-2024 13:51 voa10.i Quant Type: ISTD
Cal Date : 28-FEB-2024 18:12 Cal File: F022805.D
Als bottle: 8 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 01_STD_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.691	4.695	(1.000)	193722	50.0000	
2 Dichlorodifluoromethane	85	1.149	1.153	(0.245)	31356	18.7571	18.75
3 Chloromethane	50	1.280	1.280	(0.273)	59118	16.7852	16.78
4 Propionitrile	54	4.151	4.155	(0.885)	33245	148.170	148.16(a)
5 Vinyl Chloride	62	1.355	1.355	(0.289)	43477	18.9149	18.91
6 Bromomethane	94	1.587	1.584	(0.338)	12566	15.5535	15.55
7 Chloroethane	64	1.662	1.662	(0.354)	23851	17.5001	17.50
8 Trichlorofluoromethane	101	1.853	1.857	(0.395)	41484	18.2509	18.25
9 Acrolein	56	3.162	3.169	(0.674)	23454	40.3120	40.31
10 Acetone	43	2.315	2.318	(0.493)	19086	25.2376	25.23
11 1,1-Dichloroethene	96	2.270	2.270	(0.484)	30517	22.0364	22.03
12 Isobutyl Alcohol	43	5.164	5.160	(1.101)	73241	274.299	274.29
13 Acetonitrile	39	2.584	2.588	(0.551)	38615	159.450	159.44
14 Allyl Chloride	41	2.588	2.588	(0.552)	57584	17.0836	17.08
15 Iodomethane	142	2.393	2.397	(0.510)	39767	42.6804	42.68
16 Acrylonitrile	53	2.937	2.937	(0.626)	17415	28.9677	28.96
17 Methylene Chloride	84	2.697	2.704	(0.575)	29105	17.5842	17.58
18 Methyl tert-butyl ether	73	2.978	2.974	(0.635)	68772	14.8065	14.80
19 Carbon Disulfide	76	2.450	2.453	(0.522)	177819	39.7959	39.79
20 trans-1,2-Dichloroethene	96	2.959	2.967	(0.631)	30785	18.7895	18.78

21 Vinyl Acetate	43	3.477	3.477 (0.741)	126509	32.1233	32.12
22 1,1-Dichloroethane	63	3.398	3.398 (0.724)	59455	17.7579	17.75

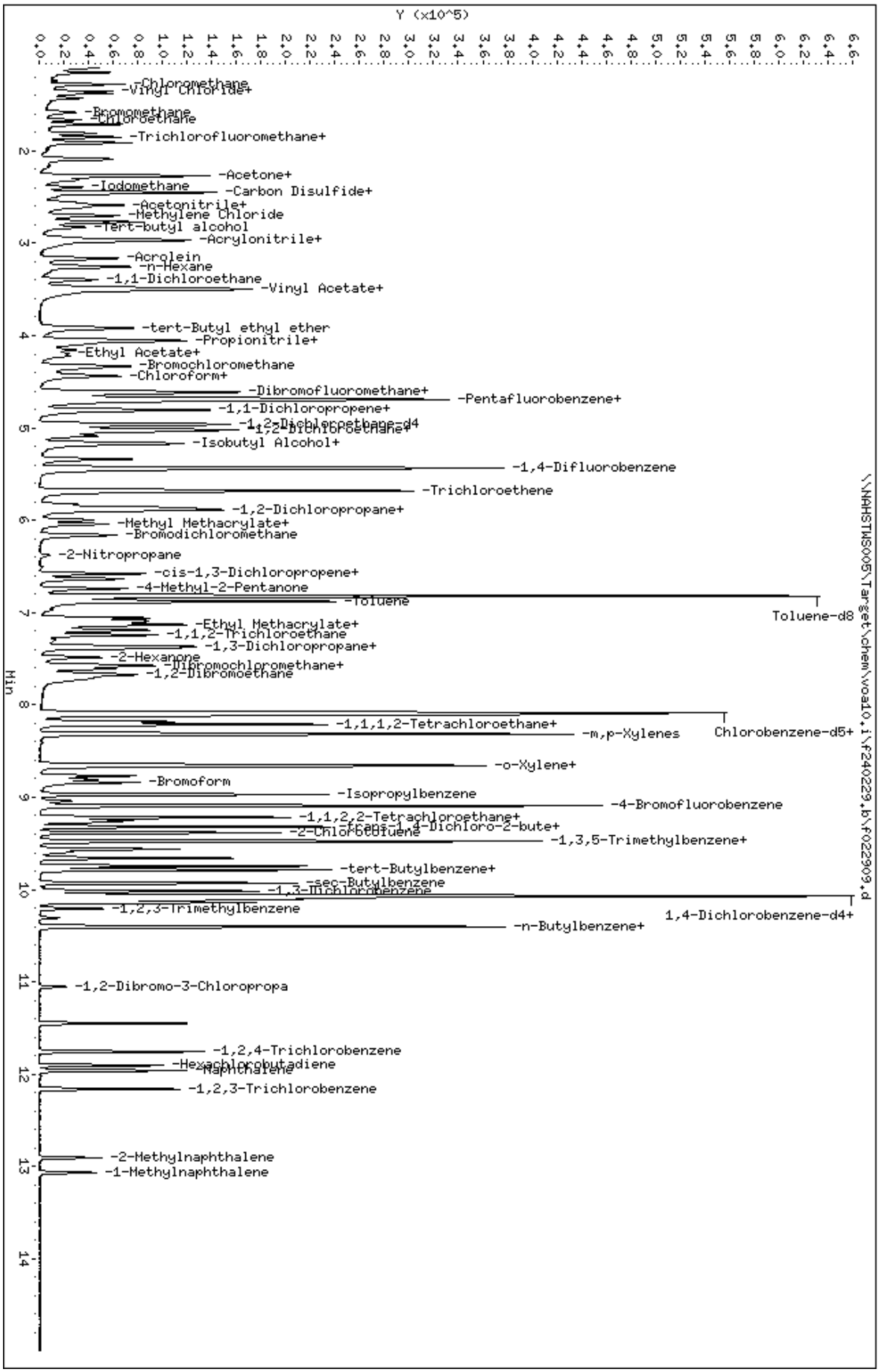
			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)
	24	2-Butanone	43	4.099	4.095	(0.874)	19690	26.0623	26.06
	25	Methacrylonitrile	41	4.054	4.054	(0.864)	33393	19.2398	19.23
	26	2,2-Dichloropropane	77	4.054	4.058	(0.864)	42913	18.8088	18.80
	27	cis-1,2-Dichloroethene	96	4.058	4.061	(0.865)	36588	20.2626	20.26
	28	Chloroform	83	4.436	4.440	(0.946)	55251	18.9003	18.90
	29	Bromochloromethane	128	4.328	4.335	(0.922)	13517	18.4290	18.42
$	30	Dibromofluoromethane	113	4.609	4.613	(0.982)	87703	60.5195	60.51
	31	1,1,1-Trichloroethane	97	4.624	4.627	(0.986)	46940	19.0313	19.03
	32	1,1-Dichloropropene	75	4.807	4.811	(0.884)	45861	17.4838	17.48
	33	1,2-Dichloroethane	62	5.040	5.044	(0.927)	43281	16.8082	16.80
	34	Carbon Tetrachloride	117	4.804	4.807	(0.883)	38193	19.0224	19.02
$	35	1,2-Dichloroethane-d4	65	4.961	4.965	(1.058)	120495	59.8192	59.81
*	36	1,4-Difluorobenzene	114	5.437	5.437	(1.000)	298927	50.0000	
	37	Benzene	78	5.021	5.021	(0.923)	133410	16.7516	16.75
	38	Trichloroethene	130	5.681	5.681	(1.045)	92925	52.0783	52.07
	39	Bromodichloromethane	83	6.157	6.161	(1.132)	38298	16.2853	16.28
	40	Methyl Methacrylate	41	6.041	6.044	(1.288)	28645	14.7296	14.72
	42	1,2-Dichloropropane	63	5.891	5.891	(1.083)	35645	16.5948	16.59
	43	2-Nitropropane	43	6.374	6.378	(1.359)	5843	17.5898	17.58
	44	Dibromomethane	93	5.999	5.996	(1.103)	16045	16.8843	16.88
	45	4-Methyl-2-Pentanone	43	6.742	6.738	(0.834)	54091	25.4443	25.44
	46	cis-1,3-Dichloropropene	75	6.584	6.581	(1.211)	43652	16.2673	16.26
*	47	Chlorobenzene-d5	117	8.084	8.084	(1.000)	248257	50.0000	
$	48	Toluene-d8	98	6.820	6.820	(0.844)	355119	55.5498	55.54
	49	Ethyl Methacrylate	69	7.109	7.102	(1.307)	14190	11.2597	11.25
	50	Toluene	91	6.880	6.880	(0.851)	126434	16.5647	16.56
	51	trans-1,3-Dichloropropene	75	7.087	7.087	(1.303)	33961	16.4673	16.46
	52	2-Hexanone	43	7.484	7.484	(0.926)	35574	26.6574	26.65
	53	1,1,2-Trichloroethane	83	7.240	7.244	(0.896)	21137	16.1979	16.19
	54	1,3-Dichloropropane	76	7.390	7.386	(0.914)	45263	15.8048	15.80
	55	Dibromochloromethane	129	7.581	7.581	(0.938)	25116	16.3262	16.32
	56	Tetrachloroethene	164	7.364	7.364	(0.911)	23133	17.3201	17.32
	57	1,2-Dibromoethane	107	7.671	7.671	(0.949)	22659	15.7942	15.79
	58	1-Chlorohexane	55	8.102	8.106	(1.490)	34665	18.9683	18.96
	59	Chlorobenzene	112	8.106	8.110	(1.003)	74182	16.4373	16.43
	60	1,1,1,2-Tetrachloroethane	131	8.185	8.185	(1.013)	25576	16.3823	16.38
	61	Ethylbenzene	106	8.211	8.211	(1.016)	40071	17.5750	17.57
	62	m,p-Xylenes	106	8.316	8.316	(1.029)	97483	33.3104	33.31
	63	o-Xylene	106	8.654	8.654	(1.070)	47438	16.8009	16.80
	64	Styrene	104	8.665	8.665	(1.072)	81353	17.8474	17.84
	66	Bromoform	173	8.811	8.811	(1.090)	16337	15.6789	15.67
	67	Isopropylbenzene	105	8.968	8.972	(1.109)	123882	17.4300	17.42
	68	1,1,2,2-Tetrachloroethane	83	9.220	9.220	(0.916)	31236	16.4381	16.43
$	69	4-Bromofluorobenzene	95	9.092	9.092	(1.125)	119206	51.6726	51.67
*	70	1,4-Dichlorobenzene-d4	152	10.071	10.071	(1.000)	125390	50.0000	
	71	1,2,3-Trichloropropane	75	9.253	9.253	(0.919)	32671	14.3446	14.34
	72	trans-1,4-Dichloro-2-butene	53	9.268	9.272	(1.147)	7563	15.0783	15.07
	73	n-Propylbenzene	91	9.321	9.321	(0.926)	146277	18.6791	18.67
	74	Bromobenzene	156	9.216	9.216	(0.915)	31313	17.1358	17.13
	75	1,3,5-Trimethylbenzene	105	9.471	9.471	(0.940)	99824	18.3950	18.39
	76	2-Chlorotoluene	91	9.384	9.385	(0.932)	88661	17.9464	17.94
	77	4-Chlorotoluene	91	9.478	9.478	(0.941)	103642	18.2544	18.25

78	tert-Butylbenzene	119	9.744	9.744 (0.968)	83025	18.3546	18.35
79	1,2,4-Trimethylbenzene	105	9.786	9.786 (0.972)	98613	17.8989	17.89

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
81	sec-Butylbenzene	105	9.932	9.932	(0.986)	115308	18.6195	18.61
82	p-Isopropyltoluene	119	10.056	10.056	(0.999)	96246	18.2038	18.20
83	1,3-Dichlorobenzene	146	10.014	10.014	(0.994)	57348	17.2790	17.27
84	1,4-Dichlorobenzene	146	10.089	10.093	(1.002)	59113	16.7008	16.70
87	n-Butylbenzene	91	10.400	10.400	(1.033)	94005	18.0085	18.00
88	1,2-Dichlorobenzene	146	10.404	10.404	(1.033)	55660	16.9264	16.92
89	1,2-Dibromo-3-Chloropropane	155	11.056	11.053	(1.098)	4300	16.0868	16.08
90	1,2,4-Trichlorobenzene	180	11.754	11.754	(1.167)	33864	16.4388	16.43
91	Hexachlorobutadiene	225	11.907	11.907	(1.182)	16248	17.3380	17.33
92	Naphthalene	128	11.960	11.956	(1.188)	71372	13.7396	13.73
93	1,2,3-Trichlorobenzene	180	12.162	12.162	(1.208)	28773	15.9828	15.98
135	1,4-Dioxane	88	6.044	6.041	(1.288)	3808	321.250	321.25(a)
130	Ethyl Acetate	43	4.189	4.193	(0.893)	28061	13.9515	13.95
136	n-Hexane	57	3.255	3.259	(0.694)	42655	21.1130	21.11
138	Freon TF	101	2.273	2.277	(0.485)	24357	17.2575	17.25
141	Cyclohexane	56	4.684	4.687	(0.998)	61469	20.1249	20.12
142	Tetrahydrofuran	42	4.399	4.403	(0.938)	5693	21.3374	21.33
146	Methyl Acetate	43	2.614	2.614	(0.557)	36598	15.5288	15.52
147	Methylcyclohexane	55	5.861	5.861	(1.078)	46045	15.8031	15.80
148	Tert-butyl alcohol	59	2.832	2.828	(0.604)	27388	235.381	235.38
149	Isopropyl alcohol	45	2.446	2.450	(0.521)	21245	280.318	280.31
151	4-Methyl-2-pentanol	45	7.105	7.102	(1.307)	33366	97.0275	97.02
156	Diisopropyl ether	45	3.503	3.503	(0.747)	113015	14.9815	14.98
158	Dichlorofluoromethane	67	1.812	1.812	(0.386)	42035	15.4632	15.46
166	1,2,3-Trimethylbenzene	105	10.142	10.142	(1.007)	81574	15.5432	15.54
160	2-Methylnaphthalene	142	12.904	12.904	(1.281)	19442	11.3062	11.30
180	1-Methylnaphthalene	142	13.062	13.062	(1.297)	18929	11.6271	11.62
174	tert-Amyl methyl ether	73	5.171	5.171	(1.102)	68801	14.0878	14.08
175	tert-Butyl ethyl ether	59	3.915	3.923	(0.835)	81848	14.6801	14.68
132	n-Butanol	56	5.865	5.865	(1.250)	13021	287.195	287.19(a)
140	1,3-Butadiene	54	1.377	1.381	(0.294)	14891	20.8109	20.81
189	n-Butyl acetate	43	7.611	7.608	(0.942)	62499	19.6461	19.64
86	Benzyl Chloride	91	10.400	10.400	(1.287)	94005	17.1907	17.19
182	Epichlorohydrin	57	6.506	6.506	(1.196)	2406	43.4662	43.46(M)
150	Allyl alcohol	57	3.488	3.484	(0.744)	4967	277.651	277.65
162	Butyl acrylate	55	8.639	8.639	(1.069)	50413	13.6216	13.62
194	Acetaldehyde	44	1.430	1.430	(0.305)	31238	37.0972	37.09
131	Methyl Acrylate	55	4.223	4.223	(0.900)	22154	13.9206	13.92
133	Ethyl Acrylate	55	5.823	5.823	(1.241)	28077	13.5420	13.54
M 94	1,2-Dichloroethylene (total)	96				67373	39.0521	39.05
M 95	Xylenes (total)	106				144921	50.1113	50.11

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Purge Volume: 5.0
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Instrument: voa10.i
Operator: FT
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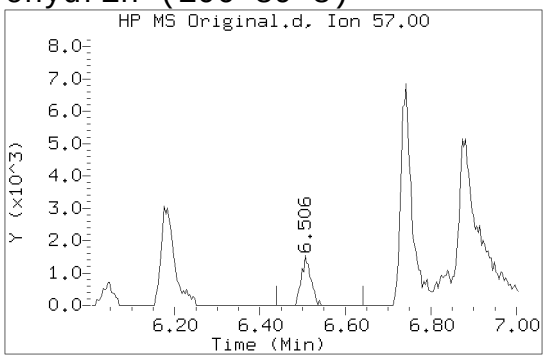
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Epichlorohydrin (106-89-8)

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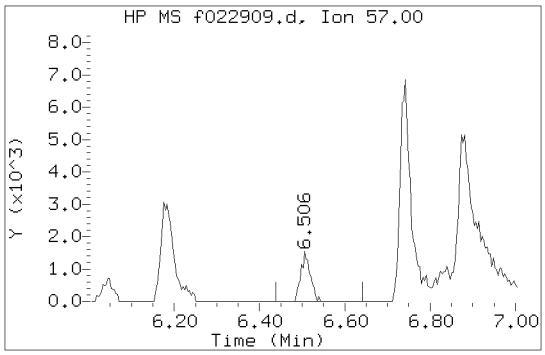
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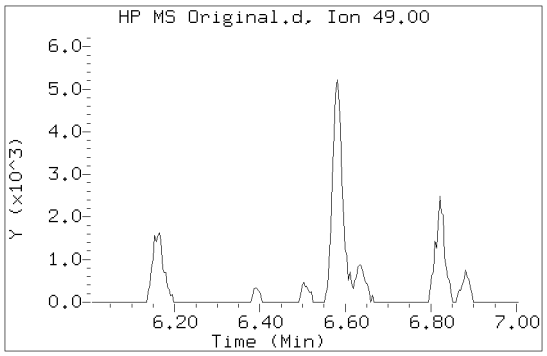
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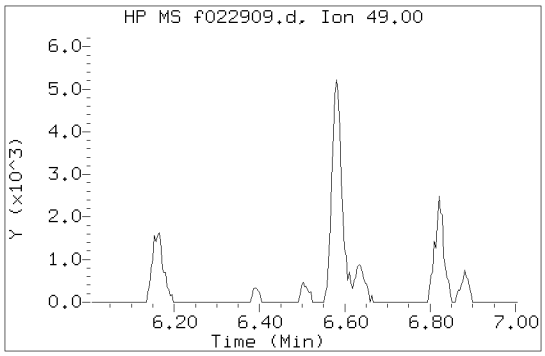
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Report Date: 11-Mar-2024 13:52

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa10.i\F240229.b\F022910.D
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Operator : FT Inst ID: voa10.i
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Cal Date : 28-FEB-2024 18:12 Cal File: F022805.D
Als bottle: 8 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 01_STD_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1	Pentafluorobenzene	168	4.691	4.695	(1.000)	210248	50.0000	
2	Dichlorodifluoromethane	85	1.152	1.153	(0.246)	43210	23.8165	23.81
3	Chloromethane	50	1.280	1.280	(0.273)	82153	21.4920	21.49
4	Propionitrile	54	4.151	4.155	(0.885)	45236	185.765	185.76(a)
5	Vinyl Chloride	62	1.355	1.355	(0.289)	59488	23.8463	23.84
6	Bromomethane	94	1.587	1.584	(0.338)	18403	21.3664	21.36
7	Chloroethane	64	1.662	1.662	(0.354)	34261	23.1623	23.16
8	Trichlorofluoromethane	101	1.853	1.857	(0.395)	50399	20.4302	20.43
9	Acrolein	56	3.165	3.169	(0.675)	30459	48.2369	48.23
10	Acetone	43	2.311	2.318	(0.493)	18344	22.3310	22.33
11	1,1-Dichloroethene	96	2.266	2.270	(0.483)	34192	22.7494	22.74
12	Isobutyl Alcohol	43	5.160	5.160	(1.100)	109227	376.918	376.91
13	Acetonitrile	39	2.584	2.588	(0.551)	49581	187.106	187.10
14	Allyl Chloride	41	2.584	2.588	(0.551)	84308	23.3482	23.34
15	Iodomethane	142	2.397	2.397	(0.511)	57710	55.5843	55.58
16	Acrylonitrile	53	2.933	2.937	(0.625)	26482	41.9284	41.92
17	Methylene Chloride	84	2.701	2.704	(0.576)	38987	21.8008	21.80
18	Methyl tert-butyl ether	73	2.971	2.974	(0.633)	102145	20.2631	20.26
19	Carbon Disulfide	76	2.449	2.453	(0.522)	231239	47.3880	47.38
20	trans-1,2-Dichloroethene	96	2.963	2.967	(0.632)	41770	23.4902	23.49

21 Vinyl Acetate	43	3.473	3.477 (0.740)	181796	42.5334	42.53
22 1,1-Dichloroethane	63	3.394	3.398 (0.724)	78285	21.5442	21.54

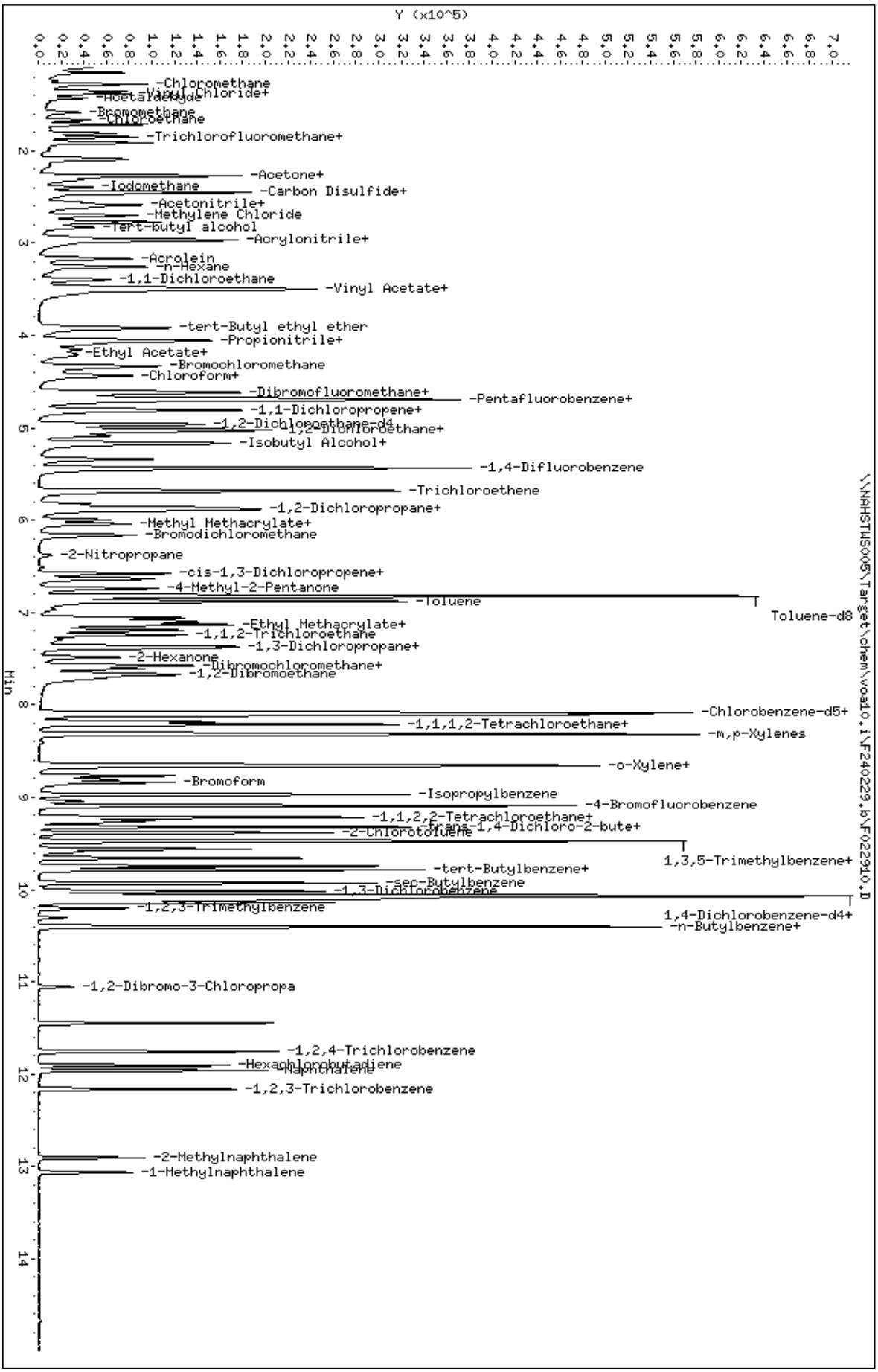
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	24 2-Butanone	43	4.099	4.095	(0.874)	27503	33.1535	33.15
	25 Methacrylonitrile	41	4.054	4.054	(0.864)	44111	23.7153	23.71
	26 2,2-Dichloropropane	77	4.054	4.058	(0.864)	57396	23.1793	23.17
	27 cis-1,2-Dichloroethene	96	4.058	4.061	(0.865)	48354	24.6738	24.67
	28 Chloroform	83	4.436	4.440	(0.946)	73122	23.2389	23.23
	29 Bromochloromethane	128	4.331	4.335	(0.923)	19588	24.6070	24.60
$	30 Dibromofluoromethane	113	4.612	4.613	(0.983)	88364	55.9547	55.95
	31 1,1,1-Trichloroethane	97	4.627	4.627	(0.986)	63520	23.7292	23.72
	32 1,1-Dichloropropene	75	4.807	4.811	(0.884)	60586	22.2186	22.21
	33 1,2-Dichloroethane	62	5.040	5.044	(0.927)	56681	21.1745	21.17
	34 Carbon Tetrachloride	117	4.800	4.807	(0.883)	52232	25.2160	25.21
$	35 1,2-Dichloroethane-d4	65	4.961	4.965	(1.058)	115143	52.1695	52.16
*	36 1,4-Difluorobenzene	114	5.437	5.437	(1.000)	310751	50.0000	
	37 Benzene	78	5.021	5.021	(0.923)	178806	21.5975	21.59
	38 Trichloroethene	130	5.681	5.681	(1.045)	103109	55.5871	55.58
	39 Bromodichloromethane	83	6.157	6.161	(1.132)	52679	21.5481	21.54
	40 Methyl Methacrylate	41	6.044	6.044	(1.288)	38899	18.4301	18.43
	42 1,2-Dichloropropane	63	5.887	5.891	(1.083)	48333	21.6456	21.64
	43 2-Nitropropane	43	6.378	6.378	(1.360)	7723	21.2689	21.26
	44 Dibromomethane	93	5.996	5.996	(1.103)	22296	22.5695	22.56
	45 4-Methyl-2-Pentanone	43	6.738	6.738	(0.834)	76186	33.6437	33.64
	46 cis-1,3-Dichloropropene	75	6.580	6.581	(1.210)	60924	21.8399	21.83
*	47 Chlorobenzene-d5	117	8.084	8.084	(1.000)	260625	50.0000	
$	48 Toluene-d8	98	6.820	6.820	(0.844)	363316	54.0612	54.06
	49 Ethyl Methacrylate	69	7.102	7.102	(1.306)	21611	16.9784	16.97
	50 Toluene	91	6.880	6.880	(0.851)	173939	21.7071	21.70
	51 trans-1,3-Dichloropropene	75	7.087	7.087	(1.303)	47029	21.9361	21.93
	52 2-Hexanone	43	7.484	7.484	(0.926)	50191	35.8258	35.82
	53 1,1,2-Trichloroethane	83	7.244	7.244	(0.896)	29430	21.4829	21.48
	54 1,3-Dichloropropane	76	7.386	7.386	(0.914)	62429	20.7643	20.76
	55 Dibromochloromethane	129	7.581	7.581	(0.938)	36476	22.5853	22.58
	56 Tetrachloroethene	164	7.364	7.364	(0.911)	34214	24.4010	24.40
	57 1,2-Dibromoethane	107	7.671	7.671	(0.949)	31724	21.0635	21.06
	58 1-Chlorohexane	55	8.102	8.106	(1.490)	44815	23.7838	23.78
	59 Chlorobenzene	112	8.110	8.110	(1.003)	104552	22.0673	22.06
	60 1,1,1,2-Tetrachloroethane	131	8.185	8.185	(1.013)	36425	22.2242	22.22
	61 Ethylbenzene	106	8.215	8.211	(1.016)	57456	24.0041	24.00
	62 m,p-Xylenes	106	8.316	8.316	(1.029)	139643	45.4523	45.45
	63 o-Xylene	106	8.653	8.654	(1.070)	67394	22.7360	22.73
	64 Styrene	104	8.665	8.665	(1.072)	116058	24.2528	24.25
	66 Bromoform	173	8.811	8.811	(1.090)	24473	22.3725	22.37
	67 Isopropylbenzene	105	8.968	8.972	(1.109)	175879	23.5716	23.57
	68 1,1,2,2-Tetrachloroethane	83	9.220	9.220	(0.916)	42430	19.9661	19.96
$	69 4-Bromofluorobenzene	95	9.092	9.092	(1.125)	123989	51.1686	51.16
*	70 1,4-Dichlorobenzene-d4	152	10.070	10.071	(1.000)	140229	50.0000	
	71 1,2,3-Trichloropropane	75	9.253	9.253	(0.919)	44785	17.5339	17.53
	72 trans-1,4-Dichloro-2-butene	53	9.272	9.272	(1.147)	10445	19.8359	19.83
	73 n-Propylbenzene	91	9.321	9.321	(0.926)	205317	23.4440	23.44
	74 Bromobenzene	156	9.216	9.216	(0.915)	45897	22.4589	22.45
	75 1,3,5-Trimethylbenzene	105	9.471	9.471	(0.940)	143698	23.6777	23.67
	76 2-Chlorotoluene	91	9.384	9.385	(0.932)	123418	22.3382	22.33
	77 4-Chlorotoluene	91	9.478	9.478	(0.941)	142231	22.4001	22.40

78	tert-Butylbenzene	119	9.748	9.744 (0.968)	121790	24.0753	24.07
79	1,2,4-Trimethylbenzene	105	9.786	9.786 (0.972)	143115	23.2275	23.22

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	81 sec-Butylbenzene	105	9.932	9.932	(0.986)	166266	24.0070	24.00
	82 p-Isopropyltoluene	119	10.055	10.056	(0.999)	145256	24.5662	24.56
	83 1,3-Dichlorobenzene	146	10.014	10.014	(0.994)	84359	22.7278	22.72
	84 1,4-Dichlorobenzene	146	10.093	10.093	(1.002)	88336	22.3160	22.31
	87 n-Butylbenzene	91	10.400	10.400	(1.033)	137399	23.5312	23.53
	88 1,2-Dichlorobenzene	146	10.404	10.404	(1.033)	83469	22.6972	22.69
	89 1,2-Dibromo-3-Chloropropane	155	11.056	11.053	(1.098)	5908	19.6039	19.60
	90 1,2,4-Trichlorobenzene	180	11.754	11.754	(1.167)	54537	23.5936	23.59
	91 Hexachlorobutadiene	225	11.907	11.907	(1.182)	27690	25.9699	25.96
	92 Naphthalene	128	11.956	11.956	(1.187)	113010	19.1951	19.19
	93 1,2,3-Trichlorobenzene	180	12.162	12.162	(1.208)	46828	22.9331	22.93
	135 1,4-Dioxane	88	6.033	6.041	(1.286)	4802	375.980	375.98(a)
	130 Ethyl Acetate	43	4.193	4.193	(0.894)	38908	17.8240	17.82
	136 n-Hexane	57	3.255	3.259	(0.694)	47110	21.4853	21.48
	138 Freon TF	101	2.277	2.277	(0.485)	32198	21.0199	21.01
	141 Cyclohexane	56	4.684	4.687	(0.998)	79189	24.1861	24.18
	142 Tetrahydrofuran	42	4.399	4.403	(0.938)	9200	31.7713	31.77
	146 Methyl Acetate	43	2.614	2.614	(0.557)	47834	18.7010	18.70
	147 Methylcyclohexane	55	5.861	5.861	(1.078)	61263	20.2260	20.22
	148 Tert-butyl alcohol	59	2.824	2.828	(0.602)	38130	295.715	295.71
	149 Isopropyl alcohol	45	2.446	2.450	(0.521)	28852	350.506	350.50
	151 4-Methyl-2-pentanol	45	7.105	7.102	(1.307)	75906	179.867	179.86
	156 Diisopropyl ether	45	3.499	3.503	(0.746)	165535	20.2188	20.21
	158 Dichlorofluoromethane	67	1.808	1.812	(0.386)	59830	20.2793	20.27
	166 1,2,3-Trimethylbenzene	105	10.142	10.142	(1.007)	116226	20.0687	20.06
	160 2-Methylnaphthalene	142	12.904	12.904	(1.281)	37347	17.7802	17.78
	180 1-Methylnaphthalene	142	13.062	13.062	(1.297)	35126	18.2405	18.24
	174 tert-Amyl methyl ether	73	5.171	5.171	(1.102)	107470	20.2760	20.27
	175 tert-Butyl ethyl ether	59	3.919	3.923	(0.835)	125088	20.6721	20.67
	132 n-Butanol	56	5.864	5.865	(1.250)	18793	381.922	381.92(a)
	140 1,3-Butadiene	54	1.377	1.381	(0.294)	16426	21.1517	21.15
	189 n-Butyl acetate	43	7.608	7.608	(0.941)	55947	16.8883	16.88
	86 Benzyl Chloride	91	10.400	10.400	(1.287)	137399	23.9338	23.93
	182 Epichlorohydrin	57	6.502	6.506	(1.196)	3291	54.8392	54.83
	150 Allyl alcohol	57	3.484	3.484	(0.743)	6600	333.685	333.68
	162 Butyl acrylate	55	8.638	8.639	(1.069)	73987	18.1804	18.18
	194 Acetaldehyde	44	1.430	1.430	(0.305)	37609	41.6524	41.65
	131 Methyl Acrylate	55	4.219	4.223	(0.899)	31986	18.5189	18.51
	133 Ethyl Acrylate	55	5.823	5.823	(1.241)	41726	18.5432	18.54
M	94 1,2-Dichloroethylene (total)	96				90124	48.1640	48.16
M	95 Xylenes (total)	106				207037	68.1882	68.18

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).



Data File: \\NAHSTWS005\Target\chem\voa10.i\F240229.b\F022910.D
Date : 29-FEB-2024 12:49
Client ID: HS24021563-02HSD
Sample Info: HS24021563-02HSD;HS24021563-02HSD;3;;HSD
Purge Volume: 5.0
Column phase: DB624

Instrument: voa10.i
Operator: FT
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa10.i\F240229.b\F022910.D
Inj Date : 29-FEB-2024 12:49
InstruID : voa10.i
LabSampID : HS24021563-02MSD

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa10.i\F240229.b\F022929.D Page 1
Report Date: 21-Mar-2024 10:27

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa10.i\F240229.b\F022929.D
Lab Smp Id: HS24021563-06
Inj Date : 29-FEB-2024 19:28
Operator : FT   Inst ID: voa10.i
Smp Info : HS24021563-06;;;
Misc Info : V10;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa10.i\F240229.b\8260W.m
Meth Date : 12-Mar-2024 12:00 Linh.Pham Quant Type: ISTD
Cal Date : 28-FEB-2024 18:12   Cal File: F022805.D
Als bottle: 27
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 01_STD_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

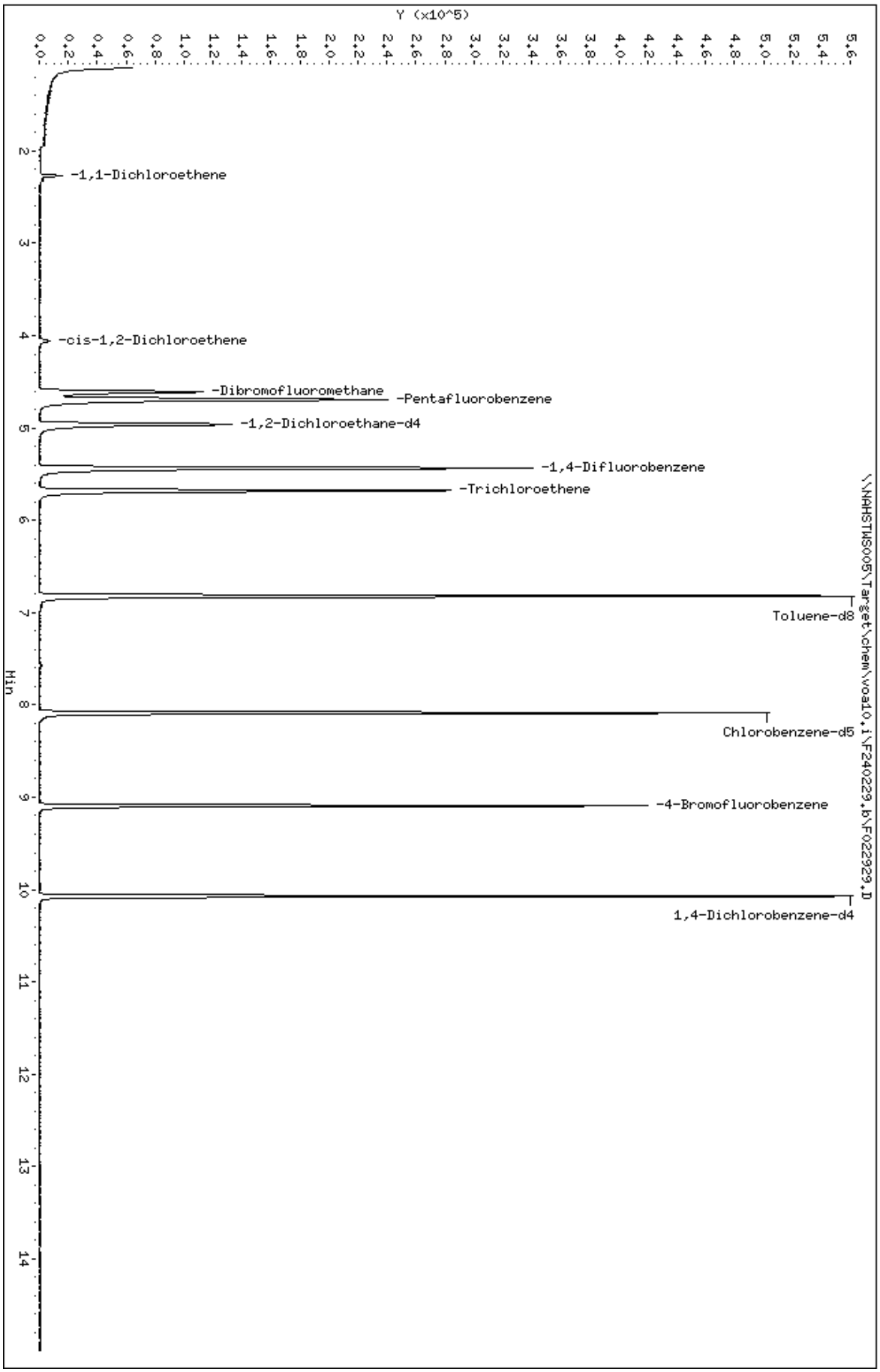
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
*	1 Pentafluorobenzene	168	4.691	4.695	(1.000)	199332	50.0000	
	11 1,1-Dichloroethene	96	2.270	2.266	(0.484)	4820	3.38257	3.38(a)
	27 cis-1,2-Dichloroethene	96	4.061	4.061	(0.866)	3330	1.79227	1.79(a)
$	30 Dibromofluoromethane	113	4.609	4.613	(0.982)	82717	55.2104	55.21
$	35 1,2-Dichloroethane-d4	65	4.961	4.961	(1.058)	104433	49.7537	49.75
*	36 1,4-Difluorobenzene	114	5.437	5.437	(1.000)	286505	50.0000	
	38 Trichloroethene	130	5.677	5.681	(1.044)	97698	57.1272	57.12(H)
*	47 Chlorobenzene-d5	117	8.084	8.084	(1.000)	239526	50.0000	
$	48 Toluene-d8	98	6.820	6.820	(0.844)	332991	53.9057	53.90
$	69 4-Bromofluorobenzene	95	9.092	9.092	(1.125)	114955	51.6448	51.64
*	70 1,4-Dichlorobenzene-d4	152	10.070	10.071	(1.000)	133973	50.0000	
M	94 1,2-Dichloroethylene (total)	96				3330	1.79227	1.79(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
H - Operator selected an alternate compound hit.

Data File: \\NAHSTWS005\Target\chem\voa10.i\F240229.b\F022929.D
Date : 29-FEB-2024 19:28
Client ID:
Sample Info: HS2402156 3-06;;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa10.i
Operator: FT
Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa10.i\F240229.b\F022929.D Page 2

Date : 29-FEB-2024 19:28

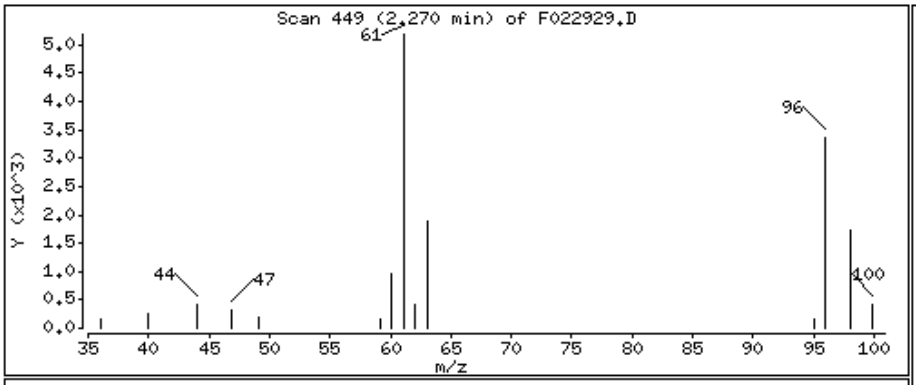
Client ID: Instrument: voa10.i

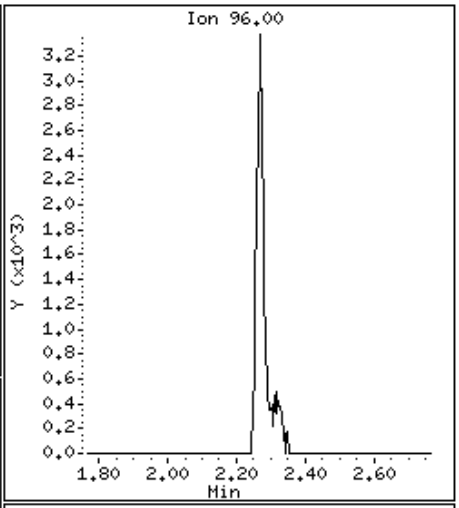
Sample Info: HS24021563-06;;;

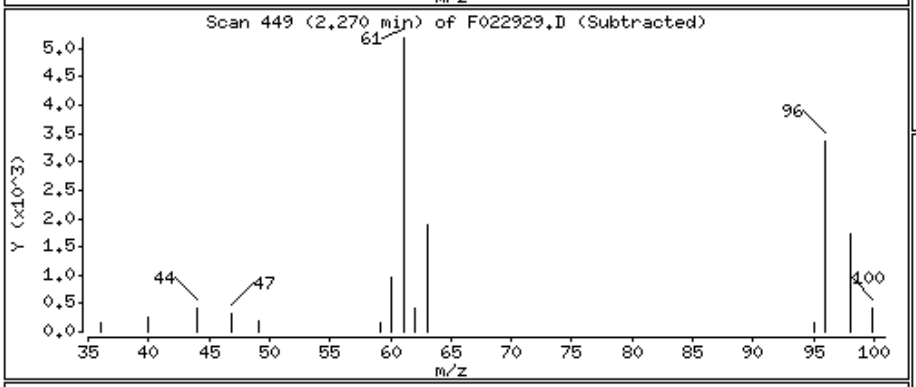
Purge Volume: 5.0 Operator: FT

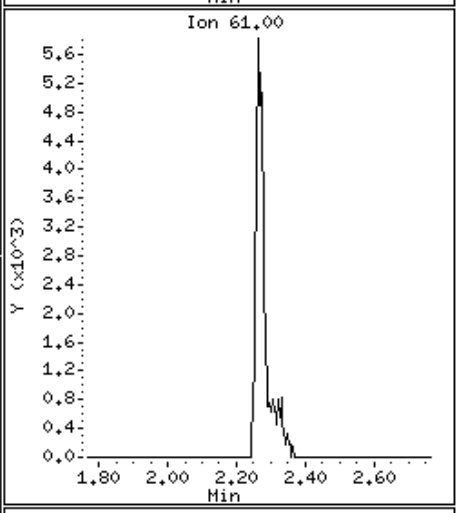
Column phase: DB624 Column diameter: 0.18

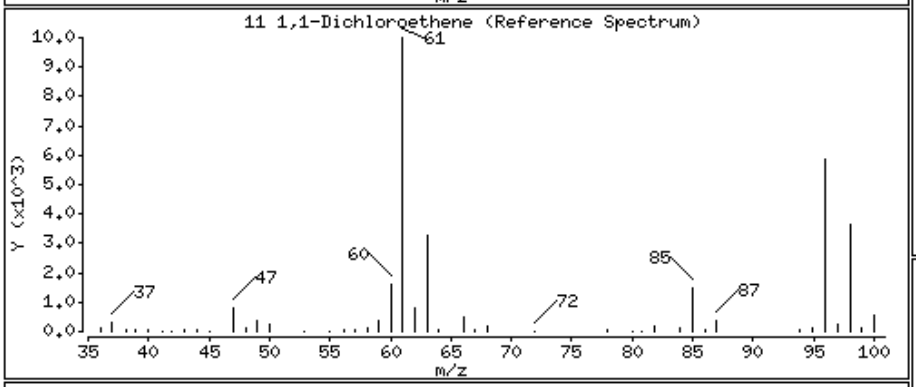
11 1,1-Dichloroethene Concentration: 3.38 ug/l

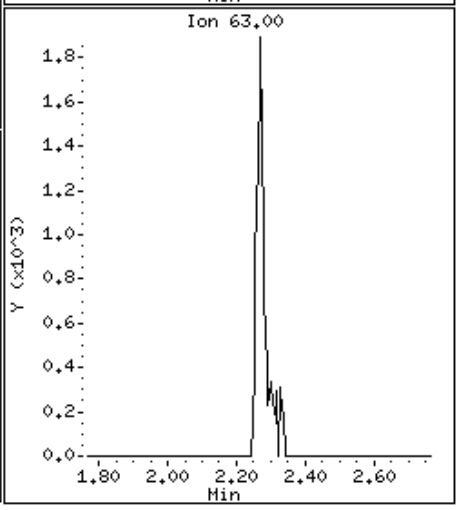


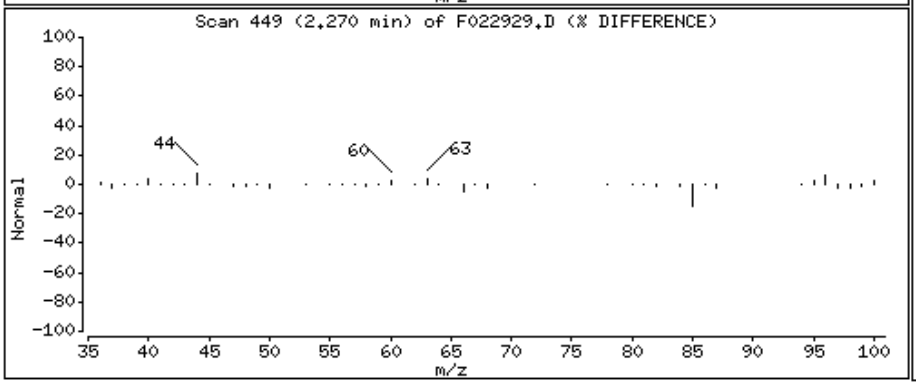












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240229.b\F022929.D Page 3

Date : 29-FEB-2024 19:28

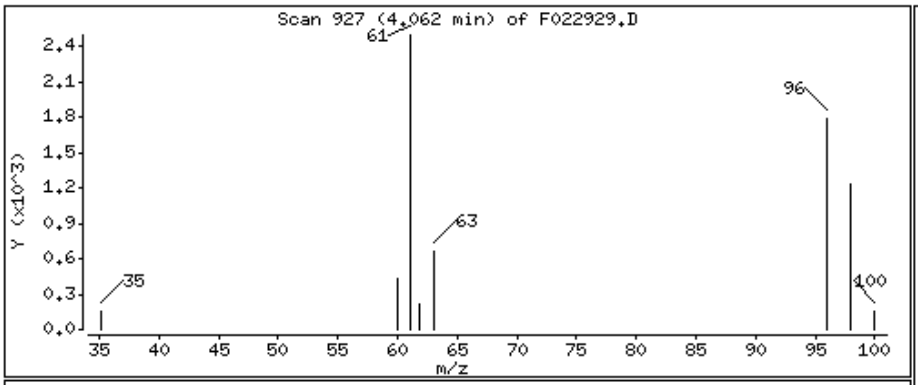
Client ID: Instrument: voa10.i

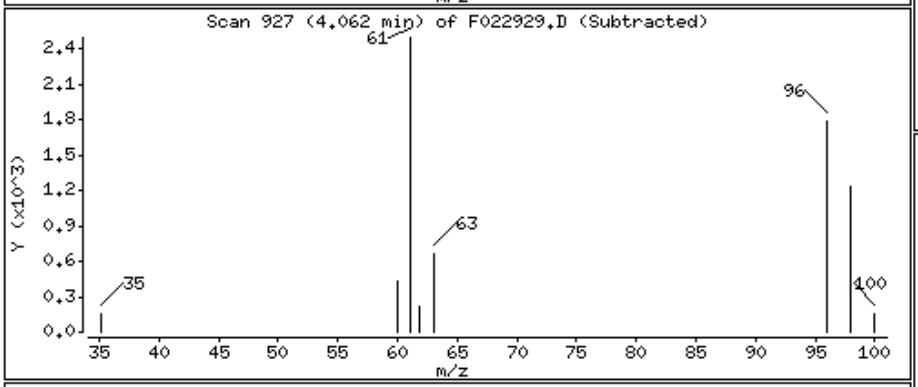
Sample Info: HS24021563-06;;;

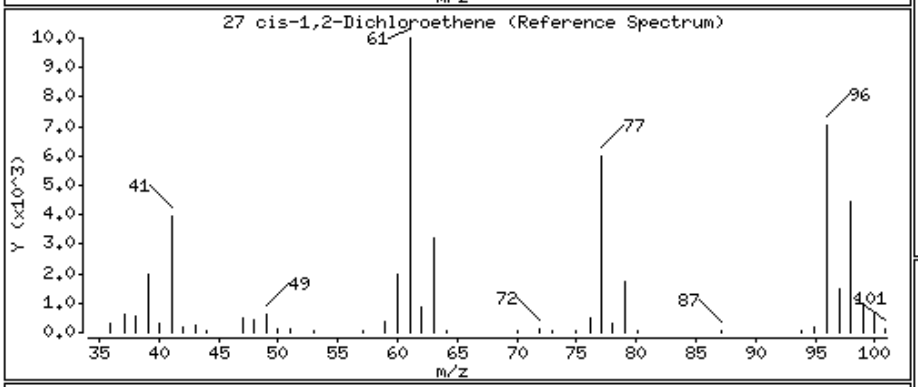
Purge Volume: 5.0 Operator: FT

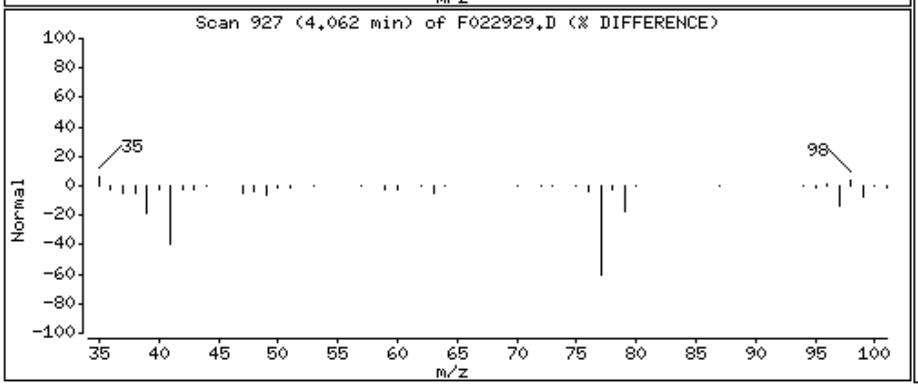
Column phase: DB624 Column diameter: 0.18

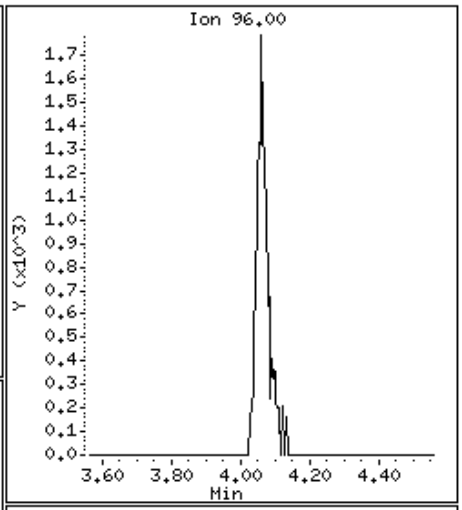
27 cis-1,2-Dichloroethene Concentration: 1.79 ug/l

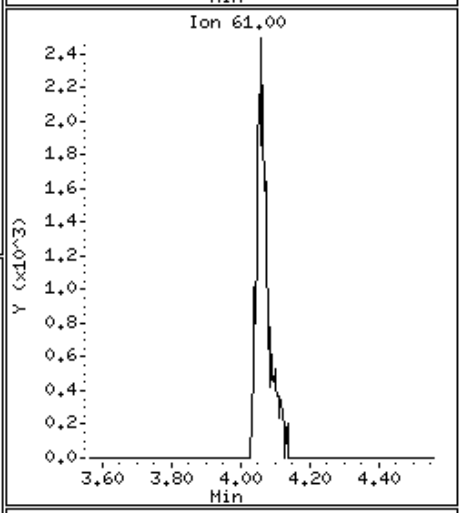


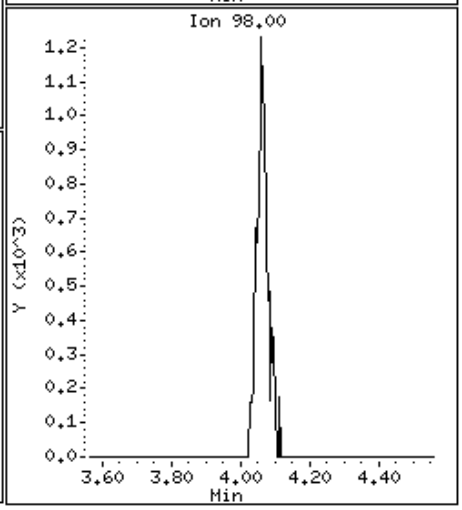












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240229.b\F022929.D Page 4

Date : 29-FEB-2024 19:28

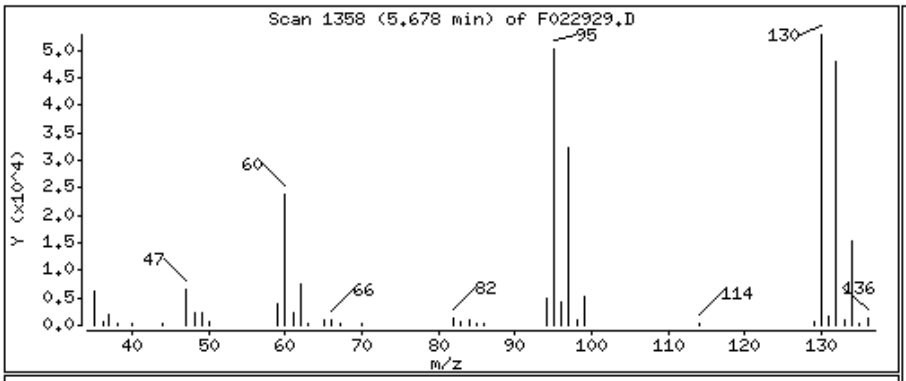
Client ID: Instrument: voa10.i

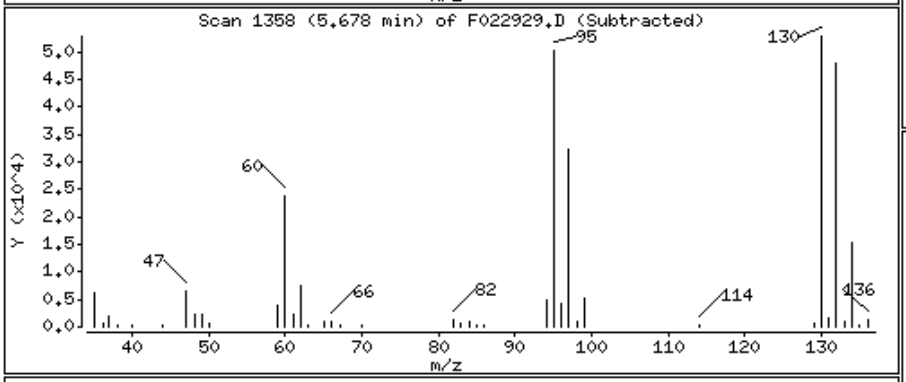
Sample Info: HS24021563-06;;;

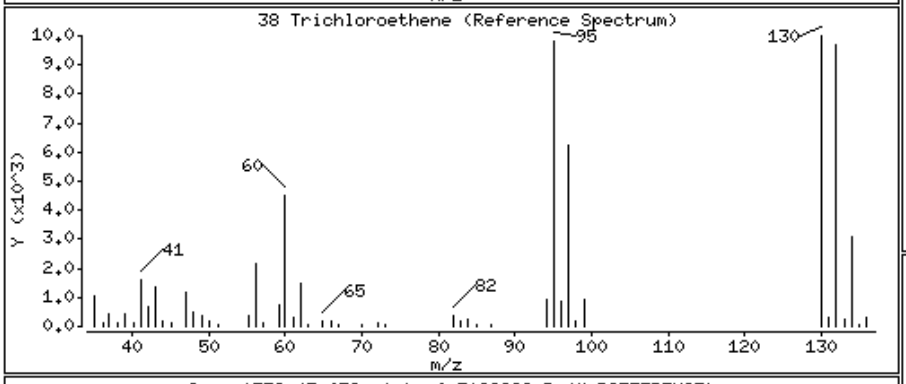
Purge Volume: 5.0 Operator: FT

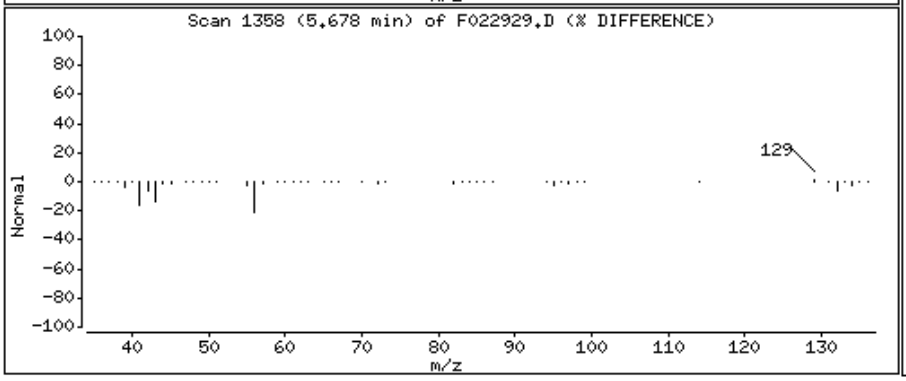
Column phase: DB624 Column diameter: 0.18

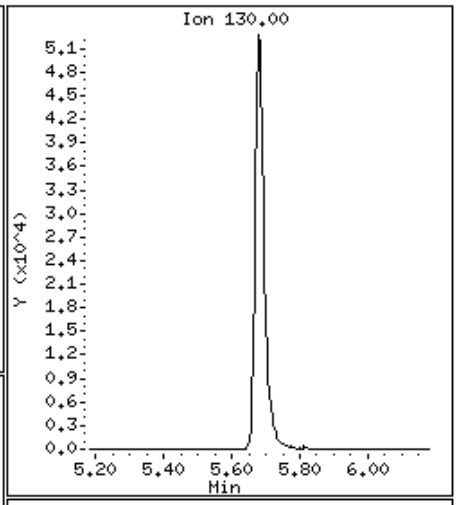
38 Trichloroethene Concentration: 57.12 ug/l

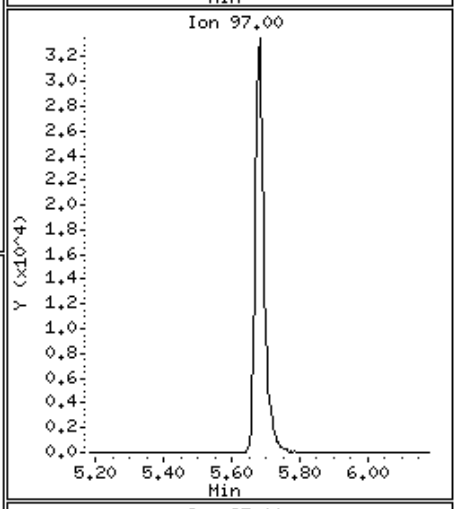


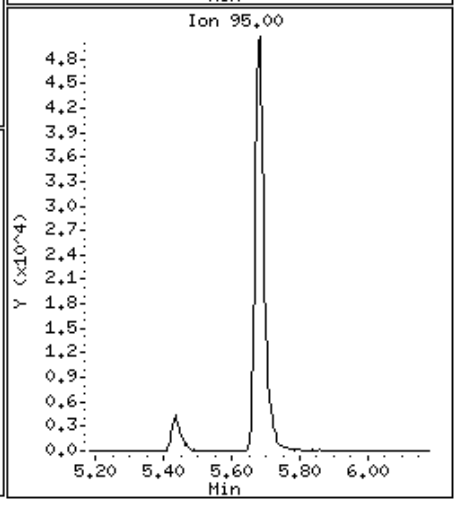












Data File : \\NAHSTWS005\Target\chem\voa10.i\F240229.b\F022929.D
Inj Date : 29-FEB-2024 19:28
InstruID : voa10.i
LabSampID : HS24021563-06

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa10.i\F240229.b\F022940.D Page 1
Report Date: 11-Mar-2024 13:53

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa10.i\F240229.b\F022940.D
Lab Smp Id: CCV-END Client Smp ID: CCV-END
Inj Date : 29-FEB-2024 19:49
Operator : FT Inst ID: voa10.i
Smp Info : CCV-END;CCV-END;2;;CCV
Misc Info : V10;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa10.i\F240229.b\8260W.m
Meth Date : 11-Mar-2024 13:53 voa10.i Quant Type: ISTD
Cal Date : 28-FEB-2024 18:12 Cal File: F022805.D
Als bottle: 28 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 01_STD_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.695	4.695	(1.000)	201215	50.0000	
2	Dichlorodifluoromethane	85	1.152	1.152	(0.246)	78425	50.0000	45.16
3	Chloromethane	50	1.280	1.280	(0.273)	159680	50.0000	43.64
4	Propionitrile	54	4.151	4.151	(0.884)	99781	500.000	428.15
5	Vinyl Chloride	62	1.355	1.355	(0.289)	106682	50.0000	44.68
6	Bromomethane	94	1.587	1.587	(0.338)	40783	50.0000	50.90
7	Chloroethane	64	1.662	1.662	(0.354)	64585	50.0000	45.62
8	Trichlorofluoromethane	101	1.853	1.853	(0.395)	115424	50.0000	48.88
9	Acrolein	56	3.169	3.169	(0.675)	58542	100.000	96.87
10	Acetone	43	2.315	2.315	(0.493)	69007	100.000	90.61(M)
11	1,1-Dichloroethene	96	2.270	2.270	(0.483)	71714	50.0000	49.85
12	Isobutyl Alcohol	43	5.160	5.160	(1.099)	254069	1000.00	916.09
13	Acetonitrile	39	2.588	2.588	(0.551)	107120	500.000	424.20
14	Allyl Chloride	41	2.588	2.588	(0.551)	184864	50.0000	53.39
15	Iodomethane	142	2.397	2.397	(0.511)	109951	100.000	104.67
16	Acrylonitrile	53	2.933	2.933	(0.625)	56396	100.000	97.39
17	Methylene Chloride	84	2.701	2.701	(0.575)	84905	50.0000	50.14
18	Methyl tert-butyl ether	73	2.974	2.974	(0.634)	229917	50.0000	47.65
19	Carbon Disulfide	76	2.453	2.453	(0.523)	460981	100.000	97.09
20	trans-1,2-Dichloroethene	96	2.963	2.963	(0.631)	86152	50.0000	50.62

21 Vinyl Acetate	43	3.473	3.473 (0.740)	389216	100.000	95.14
22 1,1-Dichloroethane	63	3.398	3.398 (0.724)	159108	50.0000	45.75

Data File: \\NAHSTWS005\Target\chem\voa10.i\F240229.b\F022940.D Page 2
Report Date: 11-Mar-2024 13:53

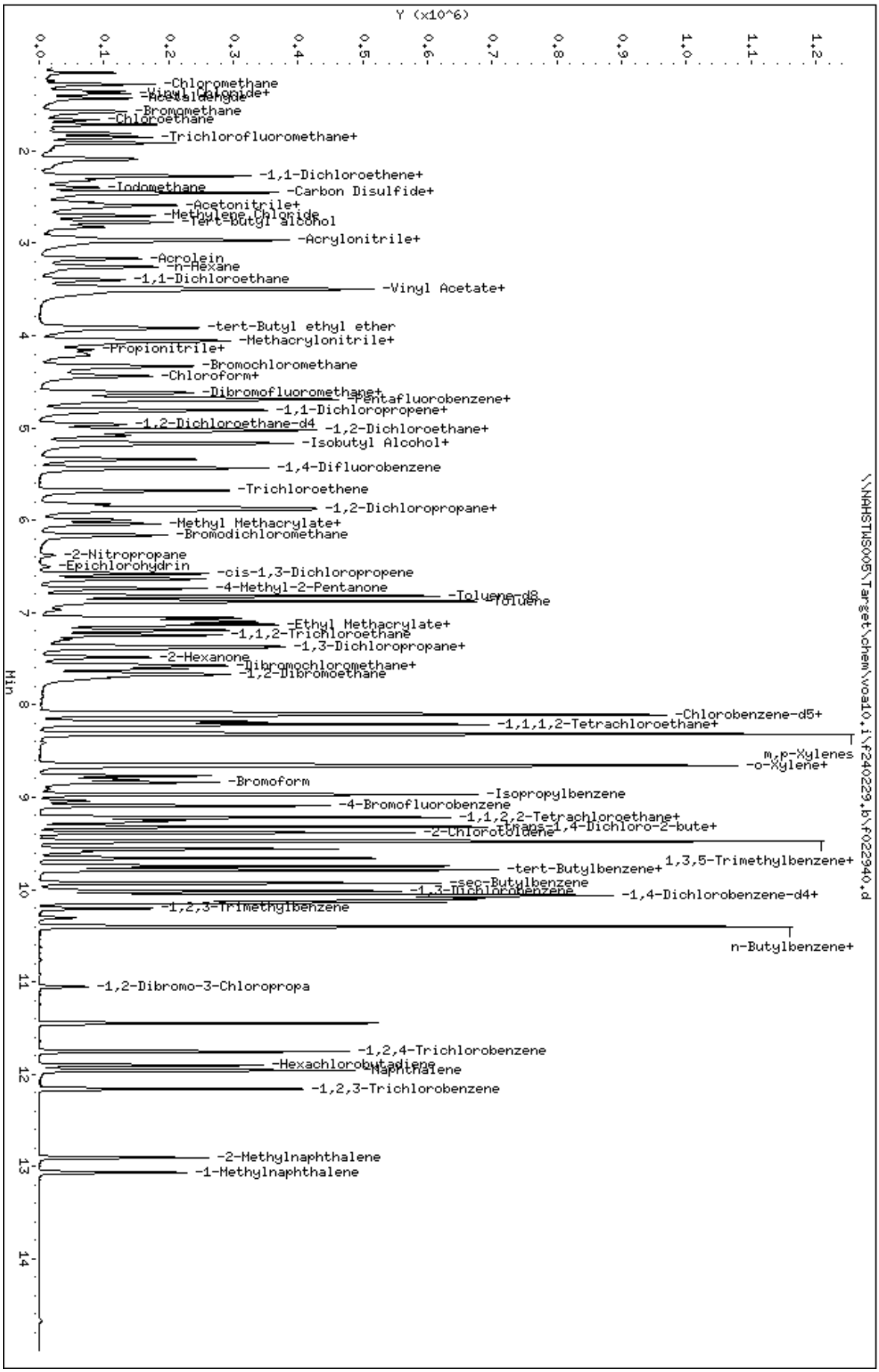
			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
	24	2-Butanone	43	4.095	4.095	(0.872)	73623	100.000	93.04(M)
	25	Methacrylonitrile	41	4.050	4.050	(0.863)	81474	50.0000	47.04
	26	2,2-Dichloropropane	77	4.058	4.058	(0.864)	113156	50.0000	47.74
	27	cis-1,2-Dichloroethene	96	4.058	4.058	(0.864)	91489	50.0000	48.78
	28	Chloroform	83	4.436	4.436	(0.945)	151630	50.0000	51.37
	29	Bromochloromethane	128	4.331	4.331	(0.923)	41503	50.0000	54.47
$	30	Dibromofluoromethane	113	4.609	4.609	(0.982)	79863	50.0000	52.68
	31	1,1,1-Trichloroethane	97	4.627	4.627	(0.986)	128649	50.0000	50.21
	32	1,1-Dichloropropene	75	4.811	4.811	(0.885)	122536	50.0000	47.33
	33	1,2-Dichloroethane	62	5.044	5.044	(0.928)	119371	50.0000	46.97
	34	Carbon Tetrachloride	117	4.804	4.804	(0.883)	104461	50.0000	53.79
$	35	1,2-Dichloroethane-d4	65	4.965	4.965	(1.057)	99742	50.0000	46.89
*	36	1,4-Difluorobenzene	114	5.437	5.437	(1.000)	294982	50.0000	
	37	Benzene	78	5.021	5.021	(0.923)	381299	50.0000	48.51
	38	Trichloroethene	130	5.681	5.681	(1.045)	92322	50.0000	52.43
	39	Bromodichloromethane	83	6.161	6.161	(1.133)	116667	50.0000	50.27
	40	Methyl Methacrylate	41	6.041	6.041	(1.287)	87753	50.0000	43.44
	42	1,2-Dichloropropane	63	5.891	5.891	(1.083)	101712	50.0000	47.98
	43	2-Nitropropane	43	6.374	6.374	(1.358)	17543	50.0000	49.76
	44	Dibromomethane	93	5.996	5.996	(1.103)	48570	50.0000	51.79
	45	4-Methyl-2-Pentanone	43	6.738	6.738	(0.834)	173198	100.000	79.96
	46	cis-1,3-Dichloropropene	75	6.580	6.580	(1.210)	133667	50.0000	50.47
*	47	Chlorobenzene-d5	117	8.084	8.084	(1.000)	245768	50.0000	
$	48	Toluene-d8	98	6.820	6.820	(0.844)	337300	50.0000	53.18
	49	Ethyl Methacrylate	69	7.105	7.105	(1.307)	47456	50.0000	40.10
	50	Toluene	91	6.880	6.880	(0.851)	369792	50.0000	48.93
	51	trans-1,3-Dichloropropene	75	7.087	7.087	(1.303)	105173	50.0000	51.67
	52	2-Hexanone	43	7.484	7.484	(0.926)	111925	100.000	84.72
	53	1,1,2-Trichloroethane	83	7.244	7.244	(0.896)	65540	50.0000	50.73
	54	1,3-Dichloropropane	76	7.386	7.386	(0.914)	137088	50.0000	48.35
	55	Dibromochloromethane	129	7.581	7.581	(0.938)	83798	50.0000	55.02
	56	Tetrachloroethene	164	7.364	7.364	(0.911)	72111	50.0000	54.53
	57	1,2-Dibromoethane	107	7.671	7.671	(0.949)	72389	50.0000	50.96
	58	1-Chlorohexane	55	8.106	8.106	(1.491)	85034	50.0000	48.33
	59	Chlorobenzene	112	8.110	8.110	(1.003)	225190	50.0000	50.40
	60	1,1,1,2-Tetrachloroethane	131	8.185	8.185	(1.013)	83527	50.0000	54.04
	61	Ethylbenzene	106	8.211	8.211	(1.016)	120934	50.0000	53.57
	62	m,p-Xylenes	106	8.316	8.316	(1.029)	298345	100.000	102.97
	63	o-Xylene	106	8.653	8.653	(1.070)	146185	50.0000	52.29
	64	Styrene	104	8.665	8.665	(1.072)	252627	50.0000	55.98
	66	Bromoform	173	8.811	8.811	(1.090)	56926	50.0000	55.18
	67	Isopropylbenzene	105	8.972	8.972	(1.110)	371440	50.0000	52.79
	68	1,1,2,2-Tetrachloroethane	83	9.220	9.220	(0.916)	96080	50.0000	46.30
$	69	4-Bromofluorobenzene	95	9.092	9.092	(1.125)	116895	50.0000	51.15
*	70	1,4-Dichlorobenzene-d4	152	10.070	10.070	(1.000)	136924	50.0000	
	71	1,2,3-Trichloropropane	75	9.253	9.253	(0.919)	100390	50.0000	41.87
	72	trans-1,4-Dichloro-2-butene	53	9.272	9.272	(1.147)	21944	50.0000	44.19
	73	n-Propylbenzene	91	9.321	9.321	(0.926)	428304	50.0000	50.08
	74	Bromobenzene	156	9.216	9.216	(0.915)	101377	50.0000	50.80
	75	1,3,5-Trimethylbenzene	105	9.471	9.471	(0.940)	305708	50.0000	51.58
	76	2-Chlorotoluene	91	9.384	9.384	(0.932)	263170	50.0000	48.78
	77	4-Chlorotoluene	91	9.478	9.478	(0.941)	303013	50.0000	48.87

78	tert-Butylbenzene	119	9.744	9.744 (0.968)	251047	50.0000	50.82
79	1,2,4-Trimethylbenzene	105	9.789	9.789 (0.972)	312275	50.0000	51.90

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	
	81 sec-Butylbenzene	105	9.932	9.932	(0.986)	347781	50.0000	51.42	
	82 p-Isopropyltoluene	119	10.059	10.059	(0.999)	311124	50.0000	53.88	
	83 1,3-Dichlorobenzene	146	10.018	10.018	(0.995)	186435	50.0000	51.44	
	84 1,4-Dichlorobenzene	146	10.093	10.093	(1.002)	193465	50.0000	50.05	
	87 n-Butylbenzene	91	10.400	10.400	(1.033)	287167	50.0000	50.34	
	88 1,2-Dichlorobenzene	146	10.404	10.404	(1.033)	184798	50.0000	51.46	
	89 1,2-Dibromo-3-Chloropropane	155	11.053	11.053	(1.098)	14202	50.0000	47.24	
	90 1,2,4-Trichlorobenzene	180	11.754	11.754	(1.167)	126103	50.0000	55.62	
	91 Hexachlorobutadiene	225	11.907	11.907	(1.182)	58064	50.0000	54.78	
	92 Naphthalene	128	11.960	11.960	(1.188)	272921	50.0000	47.75	
	93 1,2,3-Trichlorobenzene	180	12.158	12.158	(1.207)	109078	50.0000	53.71	
	135 1,4-Dioxane	88	6.037	6.037	(1.286)	9861	1000.00	825.96	
	130 Ethyl Acetate	43	4.189	4.189	(0.892)	89609	50.0000	42.89	
	136 n-Hexane	57	3.259	3.259	(0.694)	104234	50.0000	49.67	
	138 Freon TF	101	2.277	2.277	(0.485)	74345	50.0000	50.71	
	141 Cyclohexane	56	4.684	4.684	(0.998)	145944	50.0000	48.04	
	142 Tetrahydrofuran	42	4.399	4.399	(0.937)	23280	100.000	84.00	
	146 Methyl Acetate	43	2.611	2.611	(0.556)	108374	50.0000	44.27	
	147 Methylcyclohexane	55	5.861	5.861	(1.078)	140964	50.0000	49.02	
	148 Tert-butyl alcohol	59	2.824	2.824	(0.602)	85920	1000.00	680.67	
	149 Isopropyl alcohol	45	2.449	2.449	(0.522)	60719	1000.00	776.90	
	151 4-Methyl-2-pentanol	45	7.105	7.105	(1.307)	181104	1000.00	410.73	
	156 Diisopropyl ether	45	3.499	3.499	(0.745)	363256	50.0000	46.36	
	158 Dichlorofluoromethane	67	1.812	1.812	(0.386)	132207	50.0000	46.82	
	166 1,2,3-Trimethylbenzene	105	10.138	10.138	(1.007)	283348	50.0000	51.56	
	160 2-Methylnaphthalene	142	12.904	12.904	(1.281)	100297	50.0000	44.61	
	180 1-Methylnaphthalene	142	13.062	13.062	(1.297)	89542	50.0000	45.10	
	174 tert-Amyl methyl ether	73	5.171	5.171	(1.101)	245606	50.0000	48.41	
	175 tert-Butyl ethyl ether	59	3.919	3.919	(0.835)	275754	50.0000	47.61	
	132 n-Butanol	56	5.864	5.864	(1.249)	43296	1000.00	919.38	
	140 1,3-Butadiene	54	1.377	1.377	(0.293)	31325	50.0000	42.14	
	189 n-Butyl acetate	43	7.608	7.608	(0.941)	134690	50.0000	41.67	
	86 Benzyl Chloride	91	10.400	10.400	(1.287)	287167	50.0000	53.04	
	182 Epichlorohydrin	57	6.506	6.506	(1.196)	9357	200.000	152.38	
	150 Allyl alcohol	57	3.484	3.484	(0.742)	14353	1000.00	722.79	
	162 Butyl acrylate	55	8.638	8.638	(1.069)	168490	50.0000	40.83	
	194 Acetaldehyde	44	1.430	1.430	(0.305)	141056	200.000	181.15	
	131 Methyl Acrylate	55	4.219	4.219	(0.899)	79410	50.0000	48.03	
	133 Ethyl Acrylate	55	5.823	5.823	(1.240)	99115	50.0000	46.02	
M	94 1,2-Dichloroethylene (total)	96				177641	100.000		(a)
M	95 Xylenes (total)	106				444530	150.000		(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



\\NAHSTWS005\Target\chem\voa10.i\f240229.b\f022940.d

Data File: \\NAHSTWS005\Target\chem\voa10.i\f240229.b\f022940.d
Date : 29-FEB-2024 19:49
Client ID: CCV-END
Sample Info: CCV-END;CCV-END;2;;CCV
Purge Volume: 5.0
Column phase: DB624

Instrument: voa10.i
Operator: FT
Column diameter: 0.18

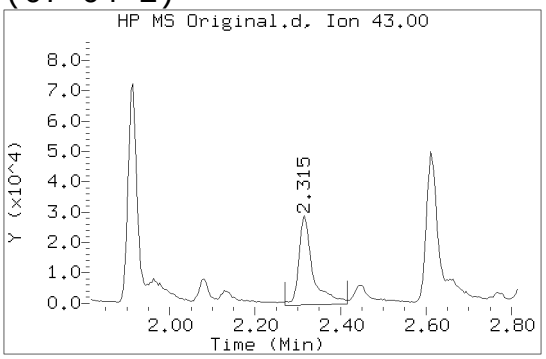
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Inj Date : 29-FEB-2024 19:49
InstruID : voa10.i
LabSampID : CCV-END

Acetone (67-64-1)

Reason Code:

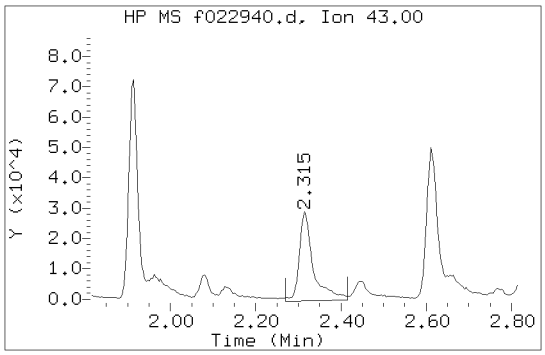
BEFORE

MASS
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AREA
69007
HEIGHT
29421
11-Mar-2024
13:51
linh
pham



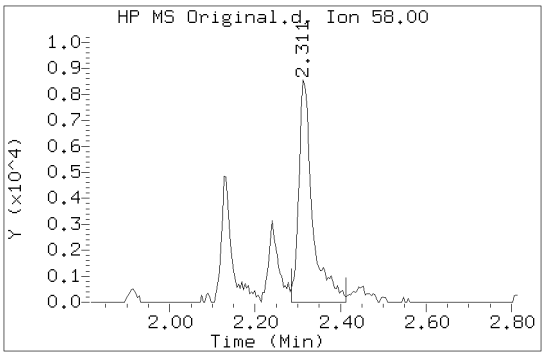
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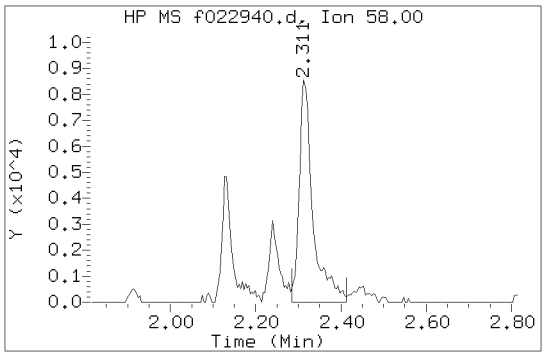
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11-Mar-2024
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AFTER

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11-Mar-2024
13:51
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pham

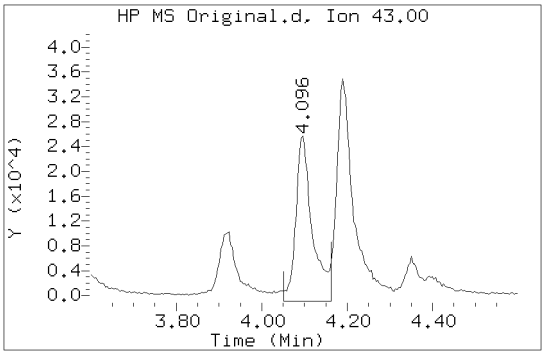


2-Butanone (78-93-3)

Reason Code:

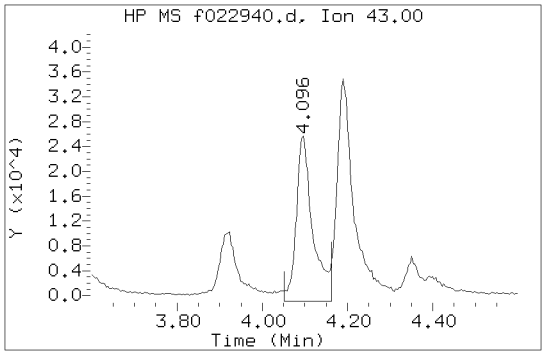
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26617
11-Mar-2024
13:51
linh
pham



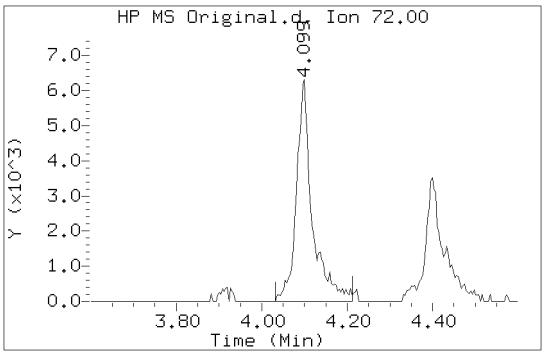
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11-Mar-2024
13:51
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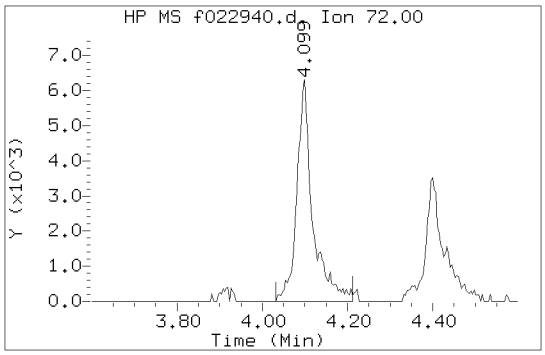
BEFORE

MASS
72
AREA
16512
HEIGHT
6307
11-Mar-2024
13:51
linh
pham



AFTER

MASS
72
AREA
16512
HEIGHT
6307
11-Mar-2024
13:51
linh
pham



right solutions.
right partner.

RawData

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24021563

Client

Bhate Environmental Associates, Inc.

Project

LHAAP / Site 46

03/21/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Data File: \\nahstws005\Target\chem\voa10.i\F240229.b\G022901.D Page 1
Report Date: 01-Mar-2024 10:37

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa10.i\F240229.b\G022901.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 29-FEB-2024 20:31
Operator : FT Inst ID: voa10.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V10;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa10.i\F240229.b\bfb.m
Meth Date : 26-Dec-2023 06:28 donna.brou Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 30 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAHSTW7026

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	2.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/l)		
RT	EXP RT	REL RT	MASS	RESPONSE			TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
9.096	9.096	(0.000)	95	68184			0.00- 100.00	100.00
9.096	9.096	(0.000)	50	14616			15.00- 40.00	21.44
9.096	9.096	(0.000)	75	33960			30.00- 60.00	49.81
9.096	9.096	(0.000)	96	4677			5.00- 9.00	6.86
9.096	9.096	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
9.096	9.096	(0.000)	174	60584			50.00- 0.00	88.85
9.096	9.096	(0.000)	175	4679			5.00- 9.00	7.72
9.096	9.096	(0.000)	176	57984			95.00- 101.00	95.71
9.096	9.096	(0.000)	177	4016			5.00- 9.00	6.93

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	21.44
75	30.00 - 60.00% of mass 95	49.81
96	5.00 - 9.00% of mass 95	6.86
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	88.85
175	5.00 - 9.00% of mass 174	6.86 (7.72)
176	95.00 - 101.00% of mass 174	85.04 (95.71)
177	5.00 - 9.00% of mass 176	5.89 (6.93)

Data File: G022901.D
Spectrum: Scan 2268 (9.09)
Location of Maximum: 95.10
Number of points: 66

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	719	61.10	3989	80.90	1699	127.90	265
37.10	3591	62.10	3370	82.00	369	130.10	180
38.10	3186	63.10	2519	85.90	172	130.90	153
39.00	1370	63.90	375	86.90	3172	134.80	194
40.10	253	67.20	156	88.00	2877	136.80	150
44.00	496	68.00	7131	92.10	1931	140.90	710
45.00	619	69.10	7243	93.00	2689	142.90	577
47.00	1518	70.00	434	94.10	7580	145.90	177
48.00	633	72.20	403	95.10	68184	155.10	152
49.10	2707	73.00	3366	96.10	4677	157.00	168
50.10	14616	74.10	11537	97.10	214	172.10	173
51.10	4334	75.10	33960	103.90	208	174.00	60584
52.10	354	76.00	3127	105.80	187	175.00	4679
55.10	310	77.00	482	115.90	150	176.00	57984
56.00	916	78.00	340	116.80	354	177.00	4016
57.10	1800	79.00	1422	118.00	217		
60.00	657	80.00	484	119.00	265		

Data File: \\NAHSTWS005\Target\chem\voa10.i\f240229.b\g022901.d Page 1

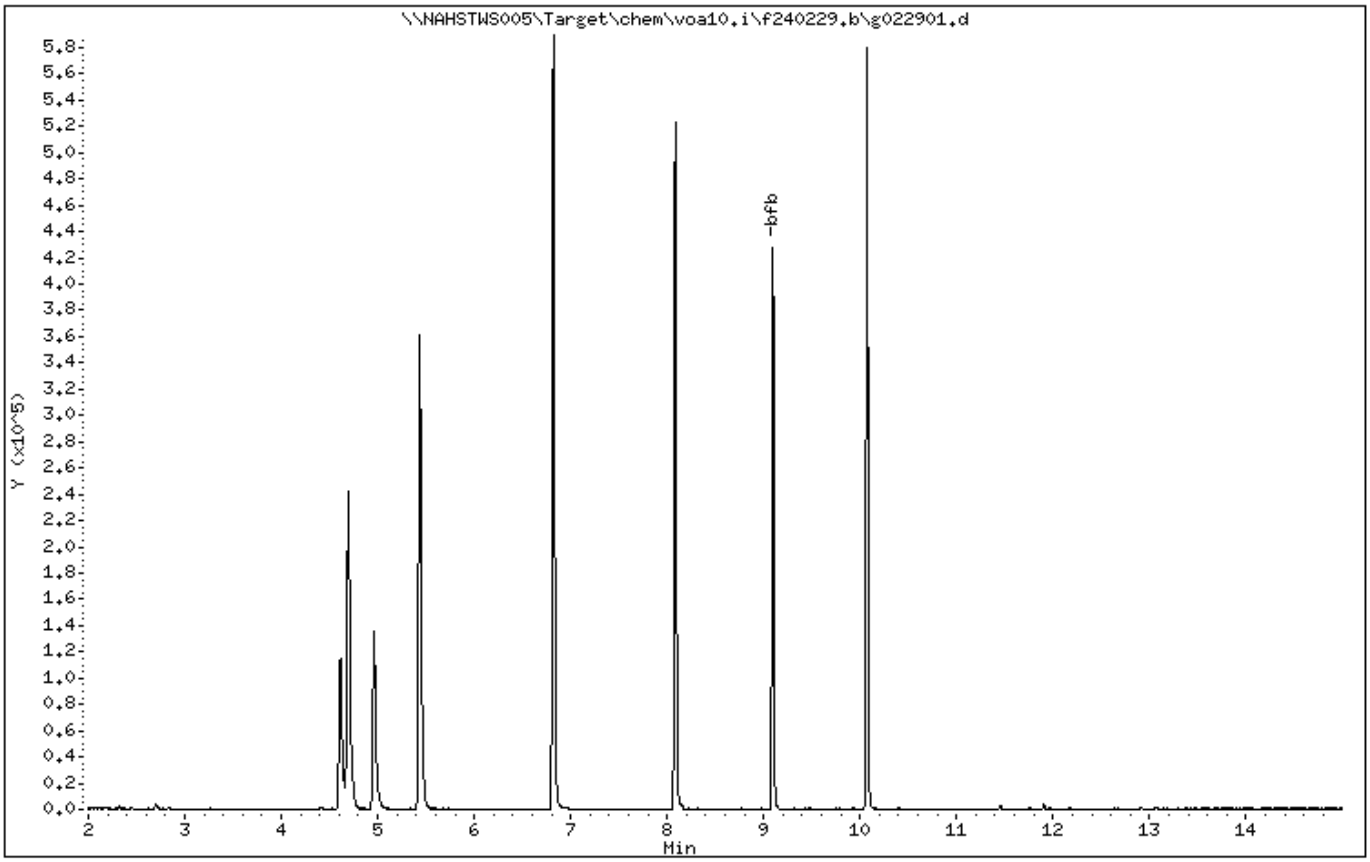
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Client ID: BFB Instrument: voa10.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: FT

Column phase: DB624 Column diameter: 0.25



Data File : \\nahstws005\target\chem\voa10.i\f240229.b\g022901.d
Inj Date : 29-FEB-2024 20:31
InstruID : voa10.i
LabSampID : BFB

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa10.i\F240229.b\G022902.D Page 1
Report Date: 11-Mar-2024 13:53

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa10.i\F240229.b\G022902.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 29-FEB-2024 20:52
Operator : FT Inst ID: voa10.i
Smp Info : VSTD050;VSTD050;2;;CCV
Misc Info : V10;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa10.i\F240229.b\8260W.m
Meth Date : 11-Mar-2024 13:53 voa10.i Quant Type: ISTD
Cal Date : 28-FEB-2024 18:12 Cal File: F022805.D
Als bottle: 31 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 01_STD_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.695	4.695	(1.000)	205636	50.0000	
2 Dichlorodifluoromethane	85	1.152	1.152	(0.246)	80515	50.0000	45.37
3 Chloromethane	50	1.280	1.280	(0.273)	153259	50.0000	40.99
4 Propionitrile	54	4.155	4.155	(0.885)	112433	500.000	472.07
5 Vinyl Chloride	62	1.355	1.355	(0.289)	107470	50.0000	44.04
6 Bromomethane	94	1.587	1.587	(0.338)	39511	50.0000	48.19
7 Chloroethane	64	1.662	1.662	(0.354)	64425	50.0000	44.53
8 Trichlorofluoromethane	101	1.857	1.857	(0.396)	106439	50.0000	44.11
9 Acrolein	56	3.169	3.169	(0.675)	64780	100.000	104.89
10 Acetone	43	2.318	2.318	(0.494)	88174	100.000	114.64
11 1,1-Dichloroethene	96	2.269	2.269	(0.483)	71068	50.0000	48.34
12 Isobutyl Alcohol	43	5.160	5.160	(1.099)	286495	1000.00	1010.80
13 Acetonitrile	39	2.588	2.588	(0.551)	94834	500.000	365.27
14 Allyl Chloride	41	2.588	2.588	(0.551)	165065	50.0000	46.83
15 Iodomethane	142	2.397	2.397	(0.511)	113762	100.000	105.87
16 Acrylonitrile	53	2.933	2.933	(0.625)	60894	100.000	103.09
17 Methylene Chloride	84	2.704	2.704	(0.576)	84526	50.0000	48.83
18 Methyl tert-butyl ether	73	2.974	2.974	(0.634)	246359	50.0000	49.96
19 Carbon Disulfide	76	2.457	2.457	(0.523)	460598	100.000	94.96
20 trans-1,2-Dichloroethene	96	2.967	2.967	(0.632)	82176	50.0000	47.24

21 Vinyl Acetate	43	3.477	3.477 (0.741)	366075	100.000	87.56
22 1,1-Dichloroethane	63	3.398	3.398 (0.724)	155761	50.0000	43.82

Data File: \\NAHSTWS005\Target\chem\voa10.i\F240229.b\G022902.D Page 2
Report Date: 11-Mar-2024 13:53

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
	24	2-Butanone	43	4.095	4.095	(0.872)	83210	100.000	103.39
	25	Methacrylonitrile	41	4.054	4.054	(0.863)	83112	50.0000	46.95
	26	2,2-Dichloropropane	77	4.058	4.058	(0.864)	110796	50.0000	45.74
	27	cis-1,2-Dichloroethene	96	4.061	4.061	(0.865)	89094	50.0000	46.48
	28	Chloroform	83	4.436	4.436	(0.945)	146812	50.0000	48.62
	29	Bromochloromethane	128	4.335	4.335	(0.923)	39339	50.0000	50.52
$	30	Dibromofluoromethane	113	4.612	4.612	(0.982)	75694	50.0000	48.68
	31	1,1,1-Trichloroethane	97	4.624	4.624	(0.985)	129638	50.0000	49.51
	32	1,1-Dichloropropene	75	4.811	4.811	(0.885)	126615	50.0000	49.35
	33	1,2-Dichloroethane	62	5.040	5.040	(0.927)	119402	50.0000	47.40
	34	Carbon Tetrachloride	117	4.807	4.807	(0.884)	106995	50.0000	55.61
$	35	1,2-Dichloroethane-d4	65	4.965	4.965	(1.057)	97771	50.0000	44.86
*	36	1,4-Difluorobenzene	114	5.437	5.437	(1.000)	292369	50.0000	
	37	Benzene	78	5.021	5.021	(0.923)	374473	50.0000	48.07
	38	Trichloroethene	130	5.684	5.684	(1.046)	94798	50.0000	54.31
	39	Bromodichloromethane	83	6.161	6.161	(1.133)	118280	50.0000	51.42
	40	Methyl Methacrylate	41	6.044	6.044	(1.287)	98017	50.0000	47.48
	42	1,2-Dichloropropane	63	5.891	5.891	(1.083)	101553	50.0000	48.33
	43	2-Nitropropane	43	6.378	6.378	(1.358)	16874	50.0000	46.84
	44	Dibromomethane	93	5.996	5.996	(1.103)	49484	50.0000	53.24
	45	4-Methyl-2-Pentanone	43	6.738	6.738	(0.834)	206681	100.000	98.04
	46	cis-1,3-Dichloropropene	75	6.580	6.580	(1.210)	134837	50.0000	51.37
*	47	Chlorobenzene-d5	117	8.084	8.084	(1.000)	239741	50.0000	
$	48	Toluene-d8	98	6.820	6.820	(0.844)	332791	50.0000	53.82
	49	Ethyl Methacrylate	69	7.101	7.101	(1.306)	64027	50.0000	54.37
	50	Toluene	91	6.880	6.880	(0.851)	373109	50.0000	50.61
	51	trans-1,3-Dichloropropene	75	7.086	7.086	(1.303)	108058	50.0000	53.57
	52	2-Hexanone	43	7.484	7.484	(0.926)	139441	100.000	108.20
	53	1,1,2-Trichloroethane	83	7.240	7.240	(0.896)	66486	50.0000	52.76
	54	1,3-Dichloropropane	76	7.386	7.386	(0.914)	142668	50.0000	51.58
	55	Dibromochloromethane	129	7.581	7.581	(0.938)	86215	50.0000	58.03
	56	Tetrachloroethene	164	7.364	7.364	(0.911)	74720	50.0000	57.93
	57	1,2-Dibromoethane	107	7.671	7.671	(0.949)	75972	50.0000	54.83
	58	1-Chlorohexane	55	8.106	8.106	(1.491)	86678	50.0000	49.73
	59	Chlorobenzene	112	8.110	8.110	(1.003)	226553	50.0000	51.98
	60	1,1,1,2-Tetrachloroethane	131	8.185	8.185	(1.013)	83818	50.0000	55.59
	61	Ethylbenzene	106	8.211	8.211	(1.016)	119872	50.0000	54.44
	62	m,p-Xylenes	106	8.316	8.316	(1.029)	299905	100.000	106.11
	63	o-Xylene	106	8.653	8.653	(1.070)	146573	50.0000	53.75
	64	Styrene	104	8.665	8.665	(1.072)	253415	50.0000	57.56
	66	Bromoform	173	8.811	8.811	(1.090)	57388	50.0000	57.03(M)
	67	Isopropylbenzene	105	8.972	8.972	(1.110)	370684	50.0000	54.00
	68	1,1,2,2-Tetrachloroethane	83	9.219	9.219	(0.916)	103182	50.0000	50.97
$	69	4-Bromofluorobenzene	95	9.092	9.092	(1.125)	114626	50.0000	51.43
*	70	1,4-Dichlorobenzene-d4	152	10.070	10.070	(1.000)	133568	50.0000	
	71	1,2,3-Trichloropropane	75	9.253	9.253	(0.919)	110468	50.0000	47.86
	72	trans-1,4-Dichloro-2-butene	53	9.268	9.268	(1.147)	23821	50.0000	49.17
	73	n-Propylbenzene	91	9.321	9.321	(0.926)	433252	50.0000	51.93
	74	Bromobenzene	156	9.216	9.216	(0.915)	102288	50.0000	52.54
	75	1,3,5-Trimethylbenzene	105	9.471	9.471	(0.940)	308102	50.0000	53.29
	76	2-Chlorotoluene	91	9.384	9.384	(0.932)	258944	50.0000	49.20
	77	4-Chlorotoluene	91	9.478	9.478	(0.941)	301224	50.0000	49.80

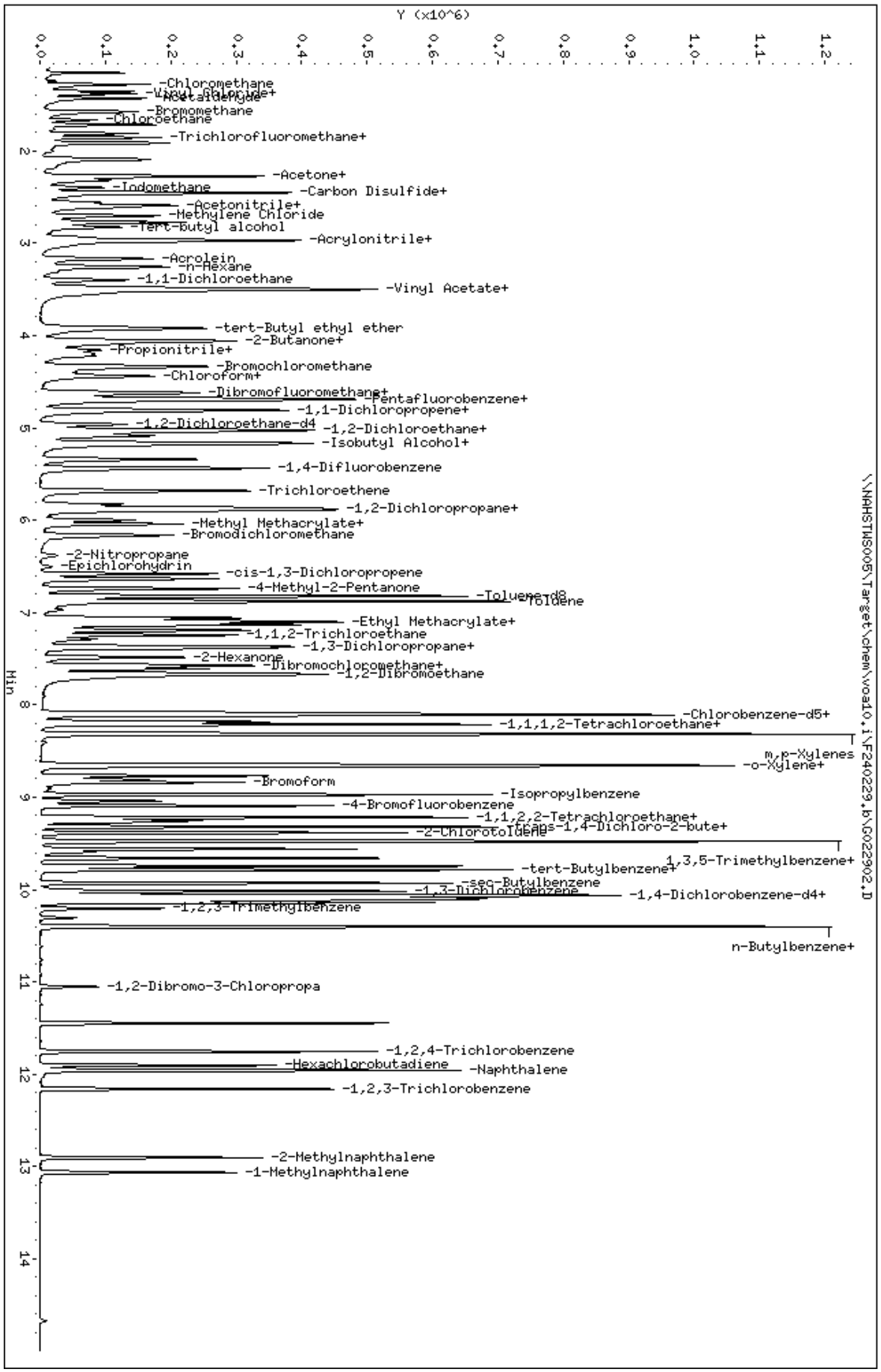
78	tert-Butylbenzene	119	9.748	9.748 (0.968)	253839	50.0000	52.68
79	1,2,4-Trimethylbenzene	105	9.785	9.785 (0.972)	312545	50.0000	53.25

Data File: \\NAHSTWS005\Target\chem\voa10.i\F240229.b\G022902.D Page 3
Report Date: 11-Mar-2024 13:53

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	81 sec-Butylbenzene	105	9.932	9.932	(0.986)	351454	50.0000	53.27
	82 p-Isopropyltoluene	119	10.059	10.059	(0.999)	320719	50.0000	56.94
	83 1,3-Dichlorobenzene	146	10.014	10.014	(0.994)	188470	50.0000	53.30
	84 1,4-Dichlorobenzene	146	10.093	10.093	(1.002)	195406	50.0000	51.82
	87 n-Butylbenzene	91	10.400	10.400	(1.033)	298874	50.0000	53.71
	88 1,2-Dichlorobenzene	146	10.404	10.404	(1.033)	190455	50.0000	54.37
	89 1,2-Dibromo-3-Chloropropane	155	11.053	11.053	(1.098)	16695	50.0000	56.78
	90 1,2,4-Trichlorobenzene	180	11.753	11.753	(1.167)	126253	50.0000	57.08(M)
	91 Hexachlorobutadiene	225	11.907	11.907	(1.182)	61259	50.0000	59.18(M)
	92 Naphthalene	128	11.960	11.960	(1.188)	315042	50.0000	56.94
	93 1,2,3-Trichlorobenzene	180	12.162	12.162	(1.208)	114225	50.0000	57.61(M)
	135 1,4-Dioxane	88	6.041	6.041	(1.287)	12654	1000.00	1041.41
	130 Ethyl Acetate	43	4.192	4.192	(0.893)	103441	50.0000	48.44
	136 n-Hexane	57	3.259	3.259	(0.694)	112912	50.0000	52.65
	138 Freon TF	101	2.277	2.277	(0.485)	75493	50.0000	50.38
	141 Cyclohexane	56	4.687	4.687	(0.998)	153248	50.0000	49.41
	142 Tetrahydrofuran	42	4.402	4.402	(0.938)	26780	100.000	94.55
	146 Methyl Acetate	43	2.614	2.614	(0.557)	122962	50.0000	49.15
	147 Methylcyclohexane	55	5.864	5.864	(1.079)	142025	50.0000	49.83
	148 Tert-butyl alcohol	59	2.824	2.824	(0.602)	119877	1000.00	937.77
	149 Isopropyl alcohol	45	2.446	2.446	(0.521)	79826	1000.00	1005.95
	151 4-Methyl-2-pentanol	45	7.101	7.101	(1.306)	232029	1000.00	522.94
	156 Diisopropyl ether	45	3.503	3.503	(0.746)	365772	50.0000	45.67
	158 Dichlorofluoromethane	67	1.812	1.812	(0.386)	127185	50.0000	44.07
	166 1,2,3-Trimethylbenzene	105	10.142	10.142	(1.007)	280720	50.0000	52.38
	160 2-Methylnaphthalene	142	12.904	12.904	(1.281)	132313	50.0000	59.26
	180 1-Methylnaphthalene	142	13.062	13.062	(1.297)	118849	50.0000	60.84
	174 tert-Amyl methyl ether	73	5.171	5.171	(1.101)	262114	50.0000	50.56
	175 tert-Butyl ethyl ether	59	3.919	3.919	(0.835)	285751	50.0000	48.28
	132 n-Butanol	56	5.864	5.864	(1.249)	44949	1000.00	933.96
	140 1,3-Butadiene	54	1.381	1.381	(0.294)	37161	50.0000	48.92
	189 n-Butyl acetate	43	7.608	7.608	(0.941)	148885	50.0000	47.10
	86 Benzyl Chloride	91	10.400	10.400	(1.287)	298874	50.0000	56.59
	182 Epichlorohydrin	57	6.505	6.505	(1.196)	10496	200.000	172.30
	150 Allyl alcohol	57	3.484	3.484	(0.742)	21077	1000.00	1026.40
	162 Butyl acrylate	55	8.638	8.638	(1.069)	181788	50.0000	44.94
	194 Acetaldehyde	44	1.430	1.430	(0.305)	152906	200.000	192.91
	131 Methyl Acrylate	55	4.219	4.219	(0.899)	88157	50.0000	52.18
	133 Ethyl Acrylate	55	5.823	5.823	(1.240)	108980	50.0000	49.51
M	94 1,2-Dichloroethylene (total)	96				171270	100.000	(a)
M	95 Xylenes (total)	106				446478	150.000	(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Column phase: DB624

Instrument: voa10.i
Operator: FT
Column diameter: 0.18

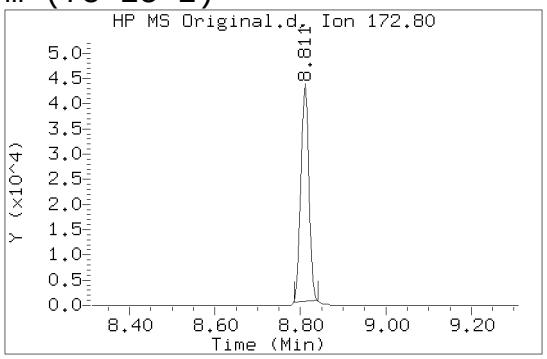
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InstruID : voa10.i
LabSampID : VSTD050

Bromoform (75-25-2)

Reason Code:

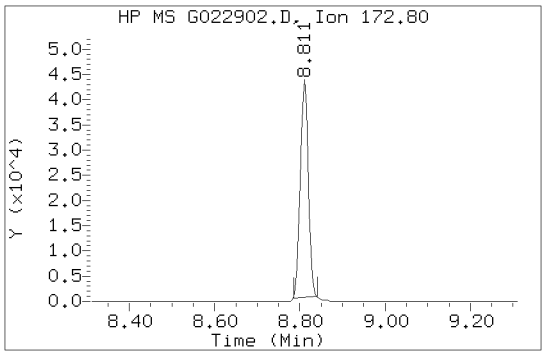
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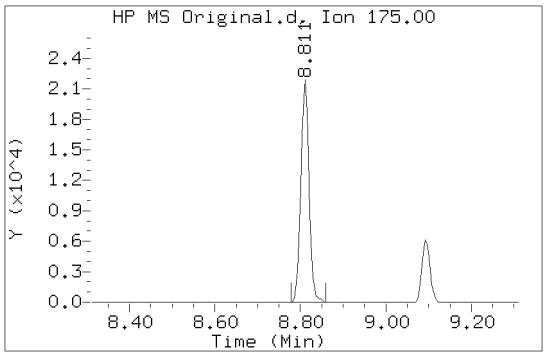
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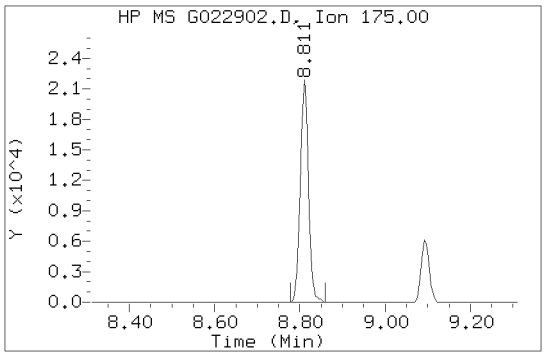
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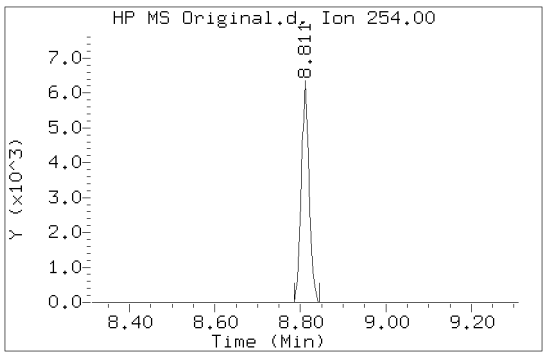
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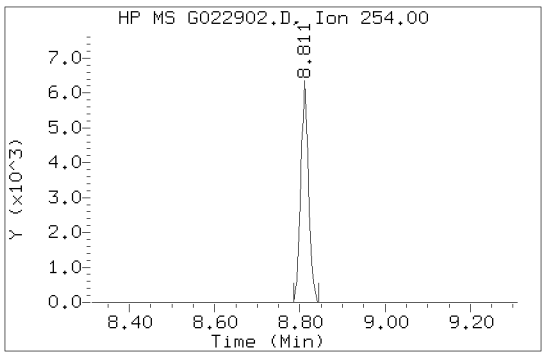
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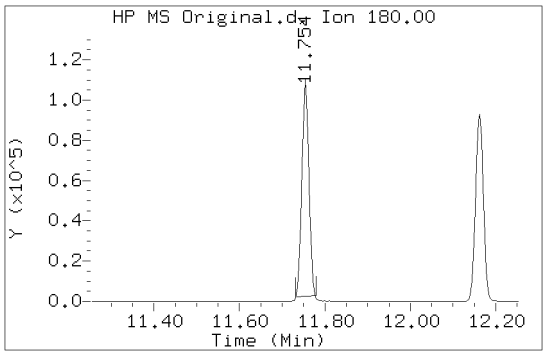


1,2,4-Trichlorobenzene (120-82-1)

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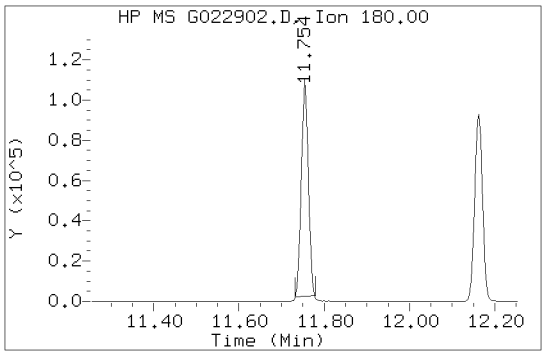
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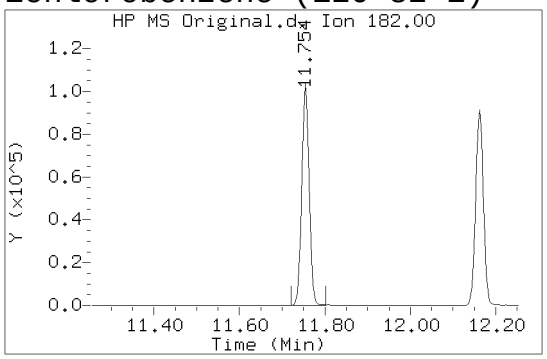


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LabSampID : VSTD050

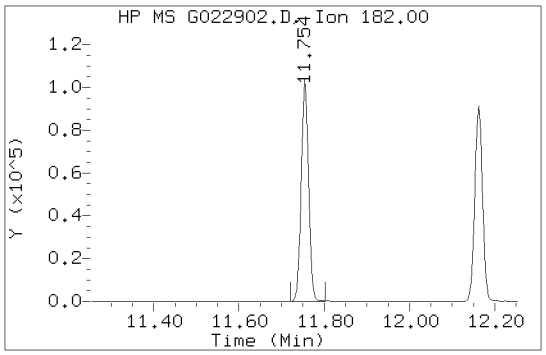
1,2,4-Trichlorobenzene (120-82-1)

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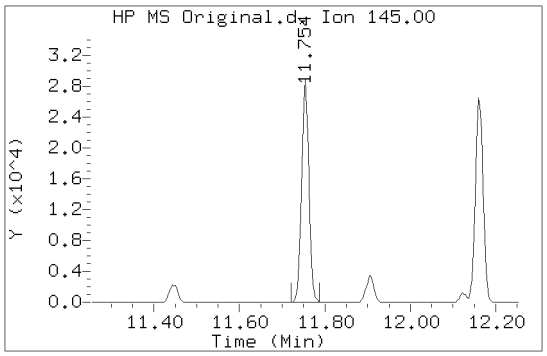
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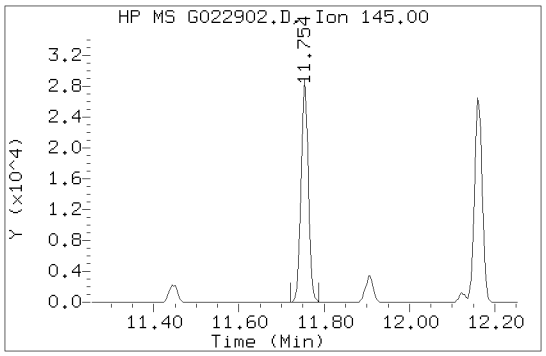
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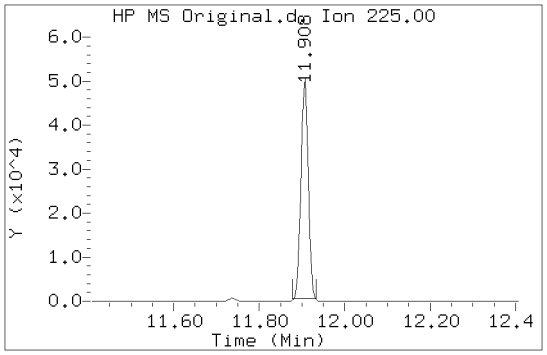
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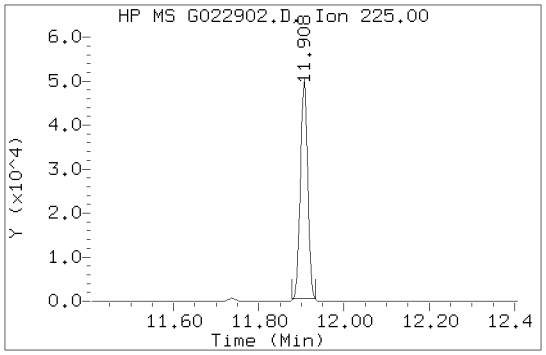
Hexachlorobutadiene (87-68-3)

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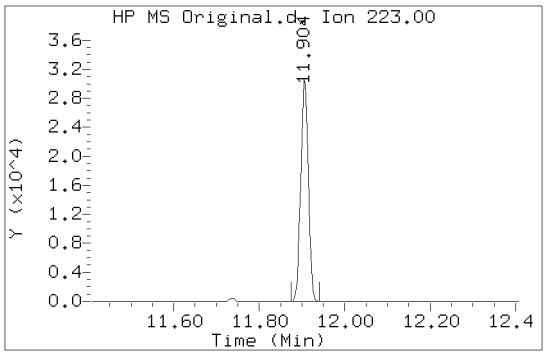
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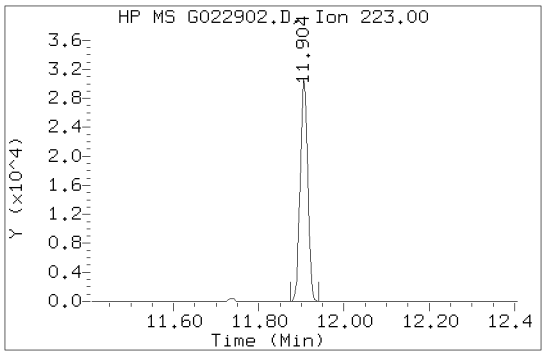
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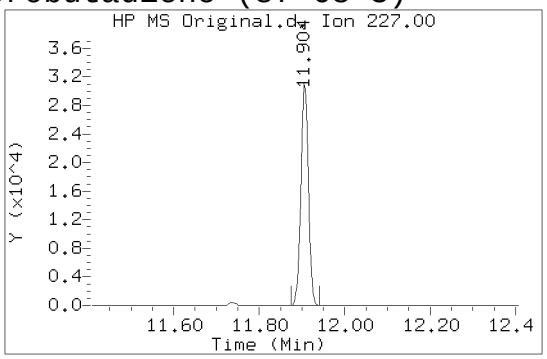
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LabSampID : VSTD050

Hexachlorobutadiene (87-68-3)

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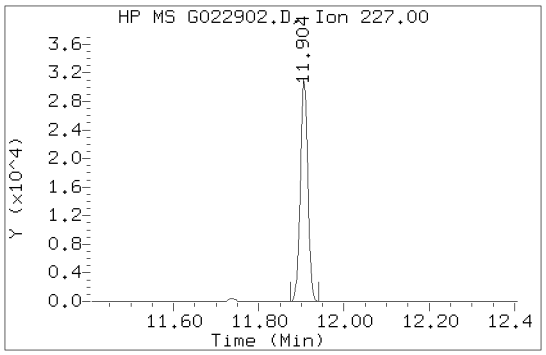
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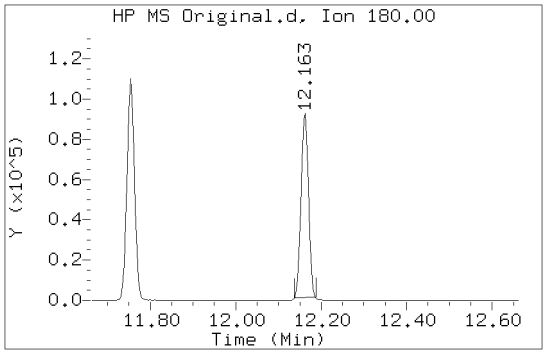


1,2,3-Trichlorobenzene (87-61-6)

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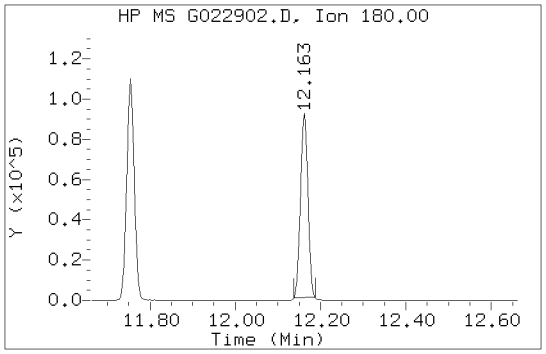
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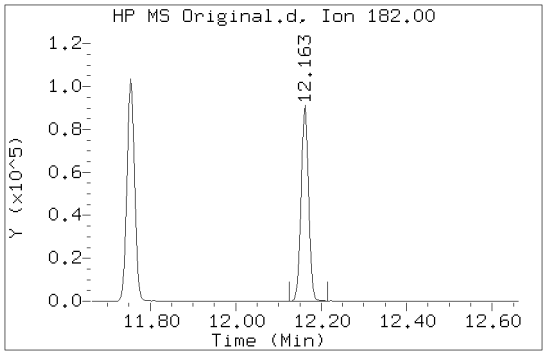
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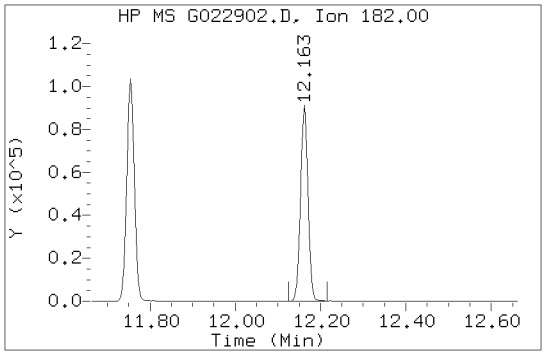
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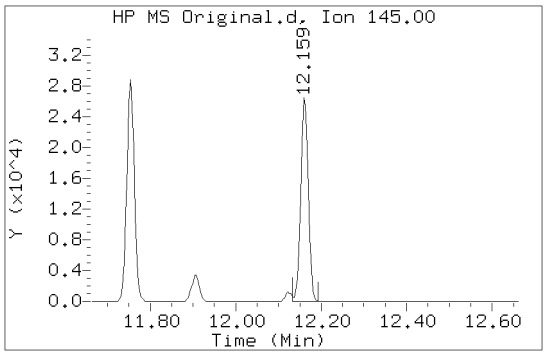
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pham



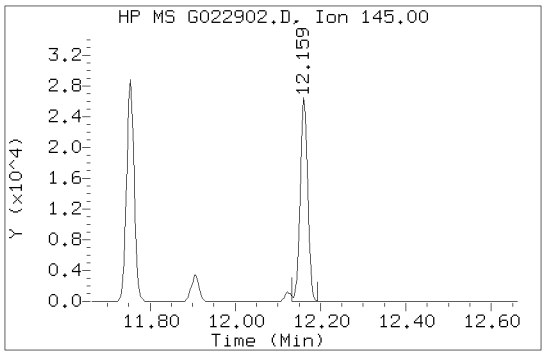
BEFORE

MASS
145
AREA
33669
HEIGHT
26512
11-Mar-2024
13:51
linh
pham



AFTER

MASS
145
AREA
33669
HEIGHT
26512
11-Mar-2024
13:51
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa10.i\F240229.b\G022903.D Page 1
Report Date: 11-Mar-2024 13:53

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa10.i\F240229.b\G022903.D
Lab Smp Id: VLCSW-240229 Client Smp ID: VLCSW-240229
Inj Date : 29-FEB-2024 21:34
Operator : FT Inst ID: voa10.i
Smp Info : VLCSW-240229;VLCSW-240229;3;;LCS
Misc Info : V10;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa10.i\F240229.b\8260W.m
Meth Date : 11-Mar-2024 13:53 voa10.i Quant Type: ISTD
Cal Date : 28-FEB-2024 18:12 Cal File: F022805.D
Als bottle: 32 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 01_STD_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.691	4.695	(1.000)	200271	50.0000	
2 Dichlorodifluoromethane	85	1.148	1.152	(0.245)	29316	16.9633	16.96
3 Chloromethane	50	1.280	1.280	(0.273)	60274	16.5538	16.55
4 Propionitrile	54	4.151	4.155	(0.885)	40896	176.309	176.30(a)
5 Vinyl Chloride	62	1.355	1.355	(0.289)	41129	17.3083	17.30
6 Bromomethane	94	1.587	1.587	(0.338)	13881	16.6935	16.69
7 Chloroethane	64	1.662	1.662	(0.354)	24673	17.5112	17.51
8 Trichlorofluoromethane	101	1.849	1.857	(0.394)	46897	19.9576	19.95
9 Acrolein	56	3.165	3.169	(0.675)	22510	37.4243	37.42
10 Acetone	43	2.314	2.318	(0.493)	30981	39.8638	39.86
11 1,1-Dichloroethene	96	2.266	2.269	(0.483)	28568	19.9544	19.95
12 Isobutyl Alcohol	43	5.163	5.160	(1.101)	95169	344.767	344.76
13 Acetonitrile	39	2.584	2.588	(0.551)	43278	172.115	172.11
14 Allyl Chloride	41	2.588	2.588	(0.552)	61782	17.7663	17.76
15 Iodomethane	142	2.397	2.397	(0.511)	46637	47.8448	47.84
16 Acrylonitrile	53	2.933	2.933	(0.625)	21978	36.1004	36.10
17 Methylene Chloride	84	2.704	2.704	(0.577)	33021	19.3383	19.33
18 Methyl tert-butyl ether	73	2.970	2.974	(0.633)	94977	19.7797	19.77
19 Carbon Disulfide	76	2.449	2.457	(0.522)	185995	40.2469	40.24
20 trans-1,2-Dichloroethene	96	2.963	2.967	(0.632)	26959	15.9162	15.91

21 Vinyl Acetate	43	3.491	3.477 (0.744)	131228	32.2319	32.23
22 1,1-Dichloroethane	63	3.398	3.398 (0.724)	63303	18.2890	18.28

Data File: \\NAHSTWS005\Target\chem\voa10.i\F240229.b\G022903.D Page 2
Report Date: 11-Mar-2024 13:53

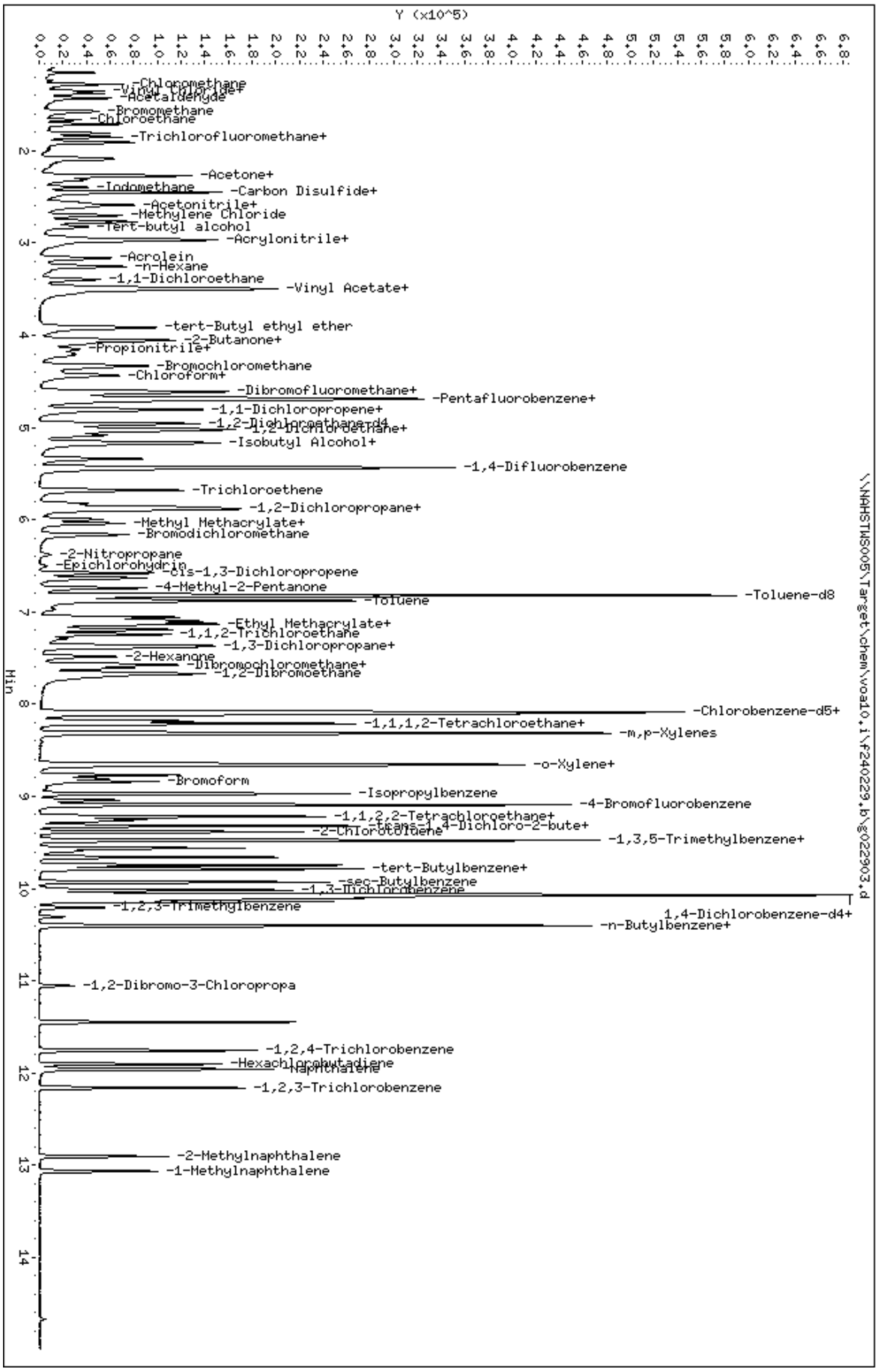
			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)
	24	2-Butanone	43	4.099	4.095	(0.874)	25778	32.6413	32.64
	25	Methacrylonitrile	41	4.054	4.054	(0.864)	31902	17.6756	17.67
	26	2,2-Dichloropropane	77	4.050	4.058	(0.863)	42698	18.1026	18.10
	27	cis-1,2-Dichloroethene	96	4.057	4.061	(0.865)	36324	19.4586	19.45
	28	Chloroform	83	4.436	4.436	(0.946)	60622	20.1130	20.11
	29	Bromochloromethane	128	4.327	4.335	(0.922)	16481	21.7353	21.73
$	30	Dibromofluoromethane	113	4.612	4.612	(0.983)	83235	55.3001	55.30
	31	1,1,1-Trichloroethane	97	4.627	4.624	(0.986)	50460	19.7895	19.78
	32	1,1-Dichloropropene	75	4.807	4.811	(0.884)	47440	18.4394	18.43
	33	1,2-Dichloroethane	62	5.040	5.040	(0.927)	47303	18.7294	18.72
	34	Carbon Tetrachloride	117	4.803	4.807	(0.883)	37977	19.2931	19.29
$	35	1,2-Dichloroethane-d4	65	4.961	4.965	(1.058)	102653	48.6038	48.60
*	36	1,4-Difluorobenzene	114	5.437	5.437	(1.000)	293193	50.0000	
	37	Benzene	78	5.021	5.021	(0.923)	146731	18.7846	18.78
	38	Trichloroethene	130	5.681	5.684	(1.045)	36966	21.1222	21.12
	39	Bromodichloromethane	83	6.160	6.161	(1.133)	45477	19.7162	19.71
	40	Methyl Methacrylate	41	6.040	6.044	(1.288)	34257	17.0393	17.03
	42	1,2-Dichloropropane	63	5.890	5.891	(1.083)	39930	18.9533	18.95
	43	2-Nitropropane	43	6.378	6.378	(1.360)	7170	20.7470	20.74
	44	Dibromomethane	93	5.995	5.996	(1.103)	18501	19.8495	19.84
	45	4-Methyl-2-Pentanone	43	6.738	6.738	(0.834)	63559	29.8432	29.84
	46	cis-1,3-Dichloropropene	75	6.580	6.580	(1.210)	50128	19.0459	19.04
*	47	Chlorobenzene-d5	117	8.083	8.084	(1.000)	246473	50.0000	
$	48	Toluene-d8	98	6.820	6.820	(0.844)	337244	53.0109	53.01
	49	Ethyl Methacrylate	69	7.105	7.101	(1.307)	21954	18.3528	18.35
	50	Toluene	91	6.880	6.880	(0.851)	141975	18.7355	18.73
	51	trans-1,3-Dichloropropene	75	7.086	7.086	(1.303)	39014	19.2874	19.28
	52	2-Hexanone	43	7.484	7.484	(0.926)	45061	34.0109	34.01
	53	1,1,2-Trichloroethane	83	7.240	7.240	(0.896)	25085	19.3626	19.36
	54	1,3-Dichloropropane	76	7.386	7.386	(0.914)	53285	18.7405	18.74
	55	Dibromochloromethane	129	7.585	7.581	(0.938)	31788	20.8127	20.81
	56	Tetrachloroethene	164	7.364	7.364	(0.911)	28206	21.2712	21.27
	57	1,2-Dibromoethane	107	7.675	7.671	(0.949)	27995	19.6548	19.65
	58	1-Chlorohexane	55	8.106	8.106	(1.491)	35586	19.8904	19.89
	59	Chlorobenzene	112	8.106	8.110	(1.003)	88602	19.7746	19.77
	60	1,1,1,2-Tetrachloroethane	131	8.185	8.185	(1.013)	30541	19.7041	19.70
	61	Ethylbenzene	106	8.211	8.211	(1.016)	46528	20.5547	20.55
	62	m,p-Xylenes	106	8.316	8.316	(1.029)	114556	39.4277	39.42
	63	o-Xylene	106	8.649	8.653	(1.070)	55246	19.7079	19.70
	64	Styrene	104	8.664	8.665	(1.072)	98033	21.6623	21.66
	66	Bromoform	173	8.807	8.811	(1.089)	21860	21.1312	21.13
	67	Isopropylbenzene	105	8.972	8.972	(1.110)	144523	20.4813	20.48
	68	1,1,2,2-Tetrachloroethane	83	9.219	9.219	(0.916)	36449	17.4925	17.49
$	69	4-Bromofluorobenzene	95	9.096	9.092	(1.125)	118756	51.8602	51.86
*	70	1,4-Dichlorobenzene-d4	152	10.070	10.070	(1.000)	137497	50.0000	
	71	1,2,3-Trichloropropane	75	9.253	9.253	(0.919)	38714	15.4760	15.47
	72	trans-1,4-Dichloro-2-butene	53	9.272	9.268	(1.147)	7916	15.8963	15.89
	73	n-Propylbenzene	91	9.321	9.321	(0.926)	171234	19.9407	19.94
	74	Bromobenzene	156	9.216	9.216	(0.915)	40591	20.2572	20.25
	75	1,3,5-Trimethylbenzene	105	9.470	9.471	(0.940)	119314	20.0505	20.05
	76	2-Chlorotoluene	91	9.384	9.384	(0.932)	102720	18.9613	18.96
	77	4-Chlorotoluene	91	9.478	9.478	(0.941)	120268	19.3175	19.31

78	tert-Butylbenzene	119	9.744	9.748 (0.968)	100767	20.3153	20.31
79	1,2,4-Trimethylbenzene	105	9.785	9.785 (0.972)	121910	20.1791	20.17

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	81 sec-Butylbenzene	105	9.932	9.932	(0.986)	138342	20.3720	20.37
	82 p-Isopropyltoluene	119	10.055	10.059	(0.999)	126083	21.7473	21.74
	83 1,3-Dichlorobenzene	146	10.018	10.014	(0.995)	73703	20.2514	20.25
	84 1,4-Dichlorobenzene	146	10.093	10.093	(1.002)	75408	19.4286	19.42
	87 n-Butylbenzene	91	10.400	10.400	(1.033)	116351	20.3246	20.32
	88 1,2-Dichlorobenzene	146	10.404	10.404	(1.033)	73068	20.2637	20.26
	89 1,2-Dibromo-3-Chloropropane	155	11.056	11.053	(1.098)	5426	18.4065	18.40
	90 1,2,4-Trichlorobenzene	180	11.753	11.753	(1.167)	51716	22.8237	22.82
	91 Hexachlorobutadiene	225	11.903	11.907	(1.182)	27315	26.1220	26.12
	92 Naphthalene	128	11.960	11.960	(1.188)	107892	18.7030	18.70
	93 1,2,3-Trichlorobenzene	180	12.162	12.162	(1.208)	45466	22.7156	22.71
	135 1,4-Dioxane	88	6.040	6.041	(1.288)	4748	390.910	390.90(a)
	130 Ethyl Acetate	43	4.189	4.192	(0.893)	35573	17.1080	17.10
	136 n-Hexane	57	3.255	3.259	(0.694)	42627	20.4092	20.40
	138 Freon TF	101	2.273	2.277	(0.485)	25617	17.5568	17.55
	141 Cyclohexane	56	4.683	4.687	(0.998)	62199	19.6642	19.66
	142 Tetrahydrofuran	42	4.399	4.402	(0.938)	7989	28.9636	28.96
	146 Methyl Acetate	43	2.610	2.614	(0.557)	42100	17.2792	17.27
	147 Methylcyclohexane	55	5.864	5.864	(1.079)	56817	19.8815	19.88
	148 Tert-butyl alcohol	59	2.824	2.824	(0.602)	36370	296.090	296.08
	149 Isopropyl alcohol	45	2.445	2.446	(0.521)	22090	281.927	281.92
	151 4-Methyl-2-pentanol	45	7.105	7.101	(1.307)	76753	190.807	190.80
	156 Diisopropyl ether	45	3.499	3.503	(0.746)	145141	18.6110	18.61
	158 Dichlorofluoromethane	67	1.808	1.812	(0.386)	49684	17.6793	17.67
	166 1,2,3-Trimethylbenzene	105	10.141	10.142	(1.007)	113189	19.9261	19.92
	160 2-Methylnaphthalene	142	12.904	12.904	(1.281)	43051	20.4936	20.49
	180 1-Methylnaphthalene	142	13.062	13.062	(1.297)	42207	21.9955	21.99
	174 tert-Amyl methyl ether	73	5.171	5.171	(1.102)	94807	18.7780	18.77
	175 tert-Butyl ethyl ether	59	3.915	3.919	(0.835)	110289	19.1344	19.13
	132 n-Butanol	56	5.864	5.864	(1.250)	22128	472.101	472.10(a)
	140 1,3-Butadiene	54	1.377	1.381	(0.294)	11812	15.9680	15.96
	189 n-Butyl acetate	43	7.607	7.608	(0.941)	48653	15.6042	15.60
	86 Benzyl Chloride	91	10.400	10.400	(1.287)	116351	21.4312	21.43
	182 Epichlorohydrin	57	6.505	6.505	(1.196)	4277	72.8814	72.88
	150 Allyl alcohol	57	3.480	3.484	(0.742)	5879	313.847	313.84
	162 Butyl acrylate	55	8.642	8.638	(1.069)	63824	16.7739	16.77
	194 Acetaldehyde	44	1.430	1.430	(0.305)	63838	78.1566	78.15
	131 Methyl Acrylate	55	4.219	4.219	(0.899)	30827	18.7370	18.73
	133 Ethyl Acrylate	55	5.823	5.823	(1.241)	37334	17.4179	17.41
M	94 1,2-Dichloroethylene (total)	96				63283	35.3748	35.37
M	95 Xylenes (total)	106				169802	59.1355	59.13

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).



Data File: \\NAHSTWS005\Target\chem\voa10,i\f240229,b\g022903,d
Date : 29-FEB-2024 21:34
Client ID: VLCSW-240229
Sample Info: VLCSW-240229;VLCSW-240229;3;;LCS
Purge Volume: 5.0
Column phase: DB624

Instrument: voa10,i
Operator: FT
Column diameter: 0.18

Data File : \\nahstws005\target\chem\voa10.i\f240229.b\g022903.d
Inj Date : 29-FEB-2024 21:34
InstruID : voa10.i
LabSampID : VLCSW-240229

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa10.i\F240229.b\G022906.D Page 1
Report Date: 11-Mar-2024 13:53

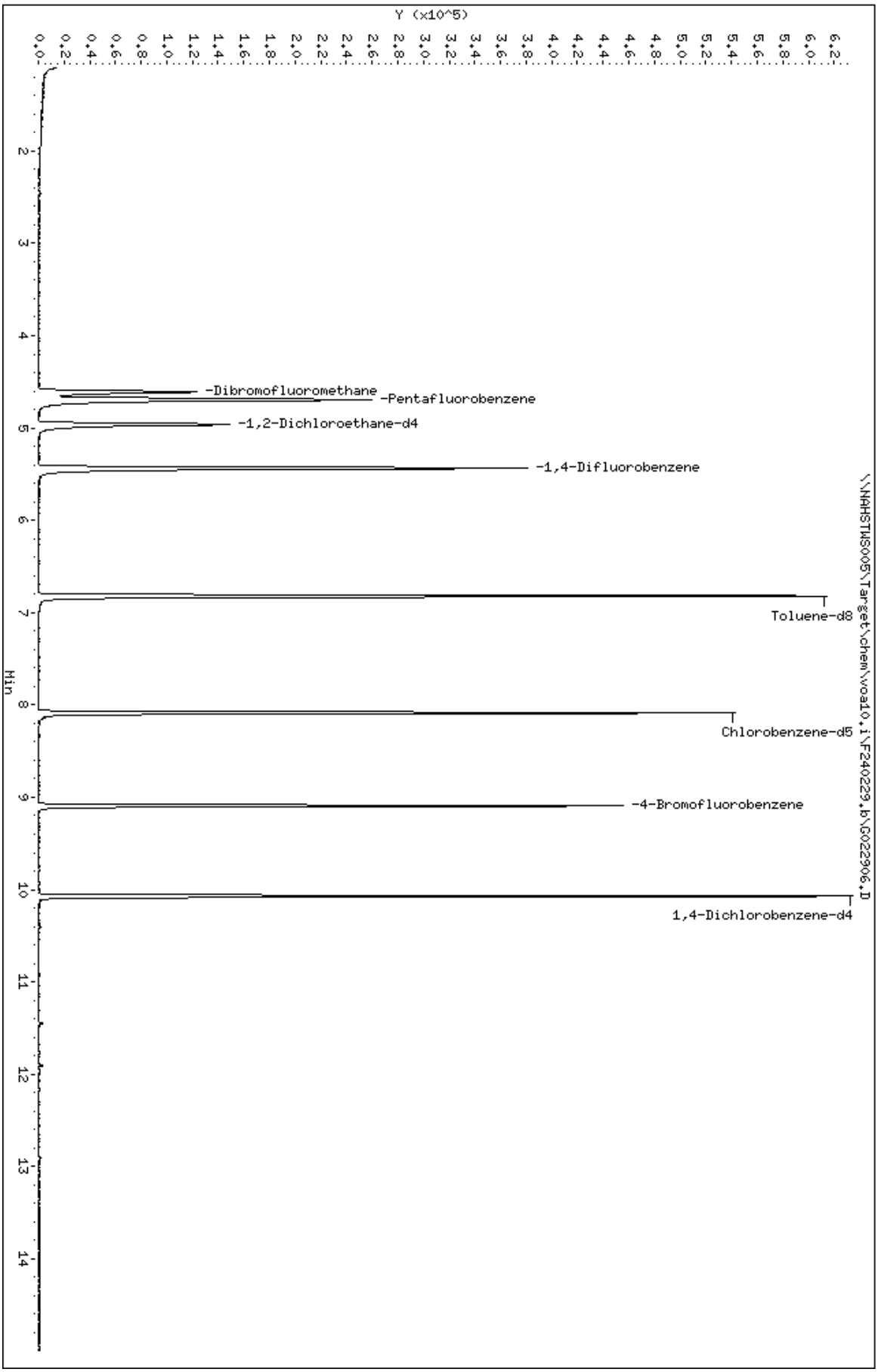
ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa10.i\F240229.b\G022906.D
Lab Smp Id: VBLKW-240229 Client Smp ID: VBLKW-240229
Inj Date : 29-FEB-2024 22:37
Operator : FT Inst ID: voa10.i
Smp Info : VBLKW-240229;VBLKW-240229;3;;BLANK
Misc Info : V10;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa10.i\F240229.b\8260W.m
Meth Date : 11-Mar-2024 13:53 voa10.i Quant Type: ISTD
Cal Date : 28-FEB-2024 18:12 Cal File: F022805.D
Als bottle: 34 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 01_STD_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.691	4.695	(1.000)	219533	50.0000	
$ 30 Dibromofluoromethane	113	4.612	4.612	(0.983)	88085	53.2913	53.29
$ 35 1,2-Dichloroethane-d4	65	4.961	4.965	(1.058)	114144	49.3505	49.35
* 36 1,4-Difluorobenzene	114	5.437	5.437	(1.000)	317394	50.0000	
* 47 Chlorobenzene-d5	117	8.084	8.084	(1.000)	260589	50.0000	
$ 48 Toluene-d8	98	6.820	6.820	(0.844)	361750	53.8237	53.82
$ 69 4-Bromofluorobenzene	95	9.092	9.092	(1.125)	124415	51.3619	51.36
* 70 1,4-Dichlorobenzene-d4	152	10.070	10.070	(1.000)	143623	50.0000	



Data File: \\NAHSTWS005\Target\chem\voa10,i\F240229,b\G022906,D
Date : 29-FEB-2024 22:37
Client ID: VBLKW-240229
Sample Info: VBLKW-240229;VBLKW-240229;3;;BLANK
Purge Volume: 5.0
Column phase: DB624

Instrument: voa10,i
Operator: FT
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa10.i\F240229.b\G022906.D
Inj Date : 29-FEB-2024 22:37
InstruID : voa10.i
LabSampID : VBLKW-240229

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa10.i\F240229.b\G022907.D Page 1
Report Date: 21-Mar-2024 10:27

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa10.i\F240229.b\G022907.D
Lab Smp Id: HS24021563-07
Inj Date : 29-FEB-2024 22:58
Operator : FT   Inst ID: voa10.i
Smp Info : HS24021563-07;;;
Misc Info : V10;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa10.i\F240229.b\8260W.m
Meth Date : 12-Mar-2024 12:00 Linh.Pham Quant Type: ISTD
Cal Date : 28-FEB-2024 18:12   Cal File: F022805.D
Als bottle: 35
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 01_STD_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

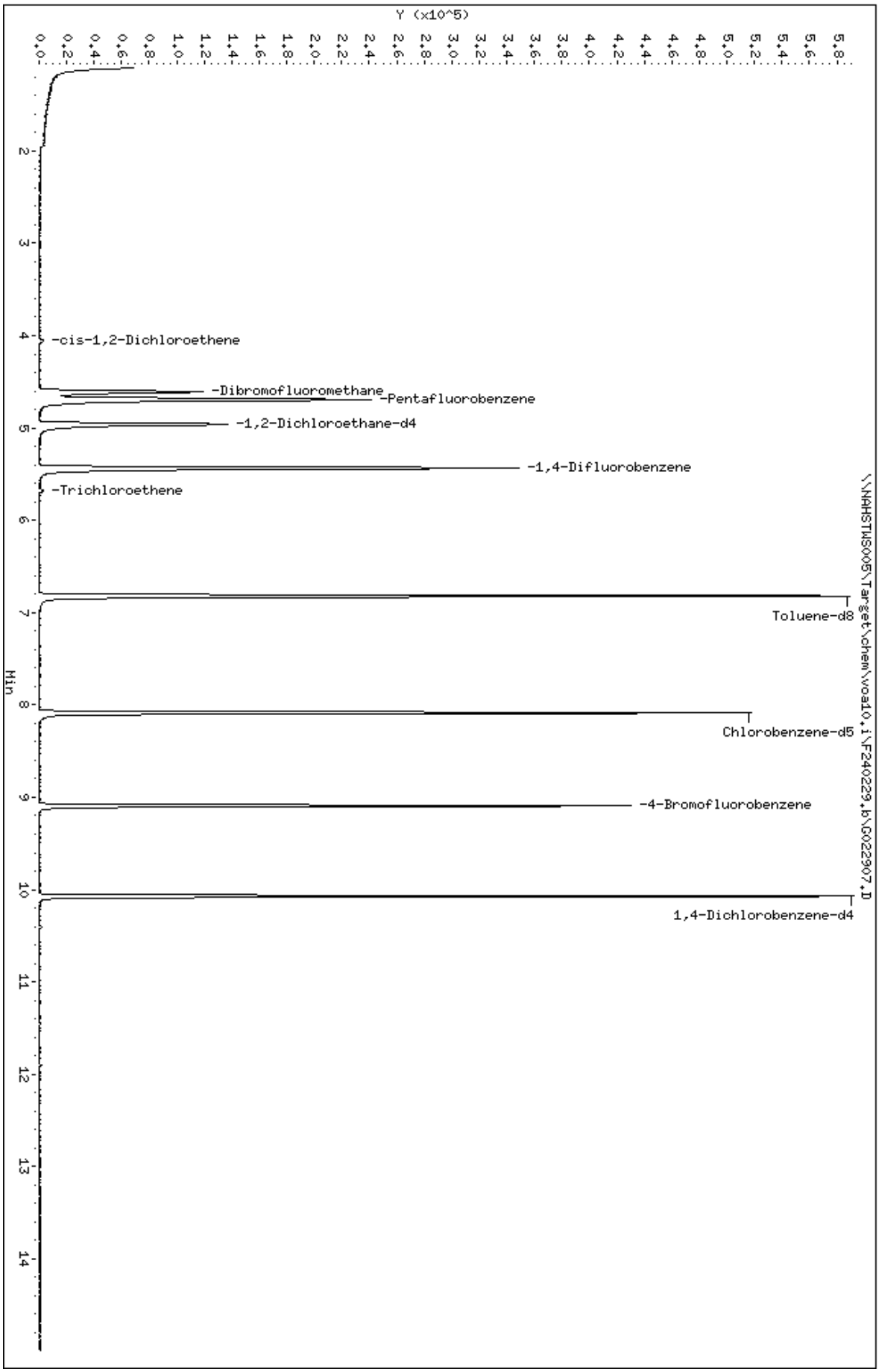
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
*	1 Pentafluorobenzene	168	4.691	4.695	(1.000)	203332	50.0000	
	27 cis-1,2-Dichloroethene	96	4.061	4.061	(0.866)	1259	0.66429	0.66(a)
$	30 Dibromofluoromethane	113	4.609	4.613	(0.982)	85827	56.2096	56.20
$	35 1,2-Dichloroethane-d4	65	4.961	4.961	(1.058)	106244	49.6116	49.61
*	36 1,4-Difluorobenzene	114	5.437	5.437	(1.000)	295001	50.0000	
	38 Trichloroethene	130	5.681	5.681	(1.045)	978	0.55540	0.55(a)
*	47 Chlorobenzene-d5	117	8.084	8.084	(1.000)	246537	50.0000	
$	48 Toluene-d8	98	6.820	6.820	(0.844)	345939	54.4359	54.43
$	69 4-Bromofluorobenzene	95	9.092	9.092	(1.125)	114227	49.7582	49.75
*	70 1,4-Dichlorobenzene-d4	152	10.070	10.071	(1.000)	133997	50.0000	
M	94 1,2-Dichloroethylene (total)	96				1259	0.66429	0.66(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).



Data File: \\NAHSTWS005\Target\chem\voa10.i\F240229.b\G022907.D
Date : 29-FEB-2024 22:58
Client ID:
Sample Info: HS24021563-07;;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa10.i
Operator: FT
Column diameter: 0.18

Data File: \\NAHSTWS005\Target\chem\voa10.i\F240229.b\G022907.D Page 2

Date : 29-FEB-2024 22:58

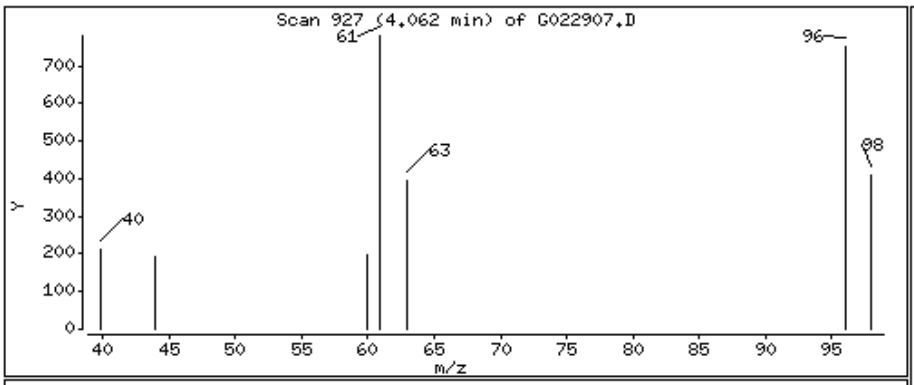
Client ID: Instrument: voa10.i

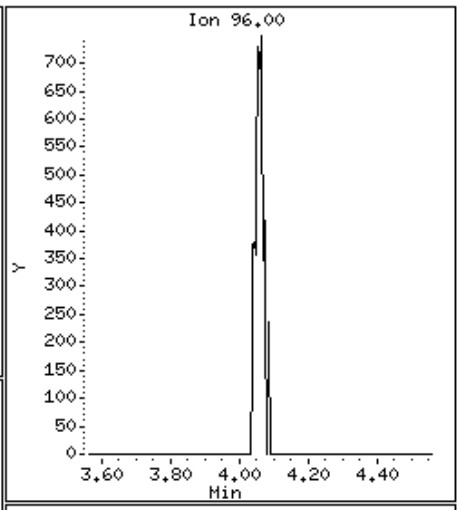
Sample Info: HS24021563-07;;;

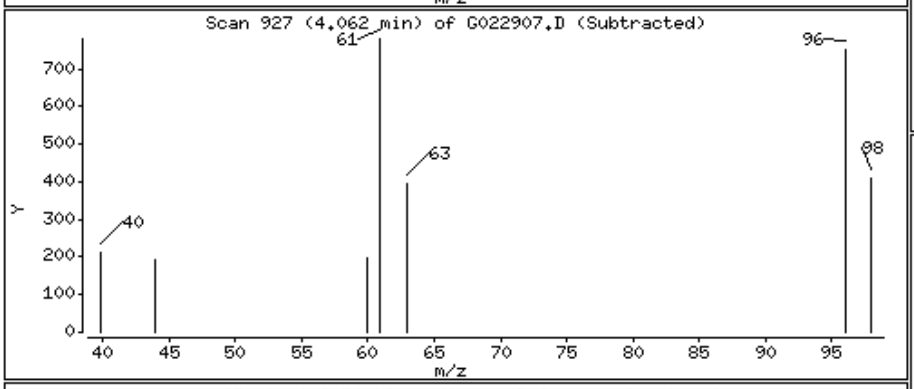
Purge Volume: 5.0 Operator: FT

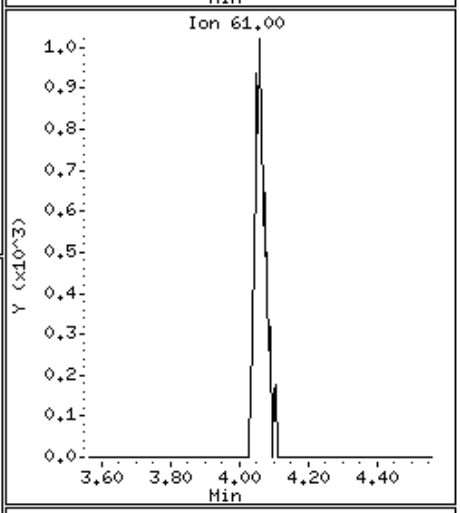
Column phase: DB624 Column diameter: 0.18

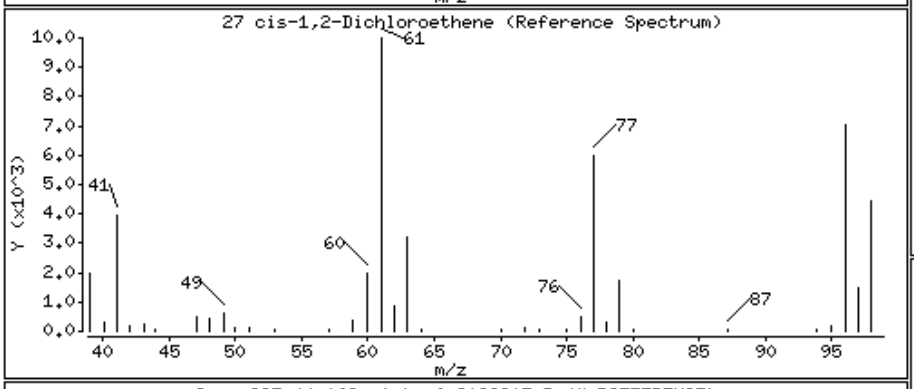
27 cis-1,2-Dichloroethene Concentration: 0.66 ug/l

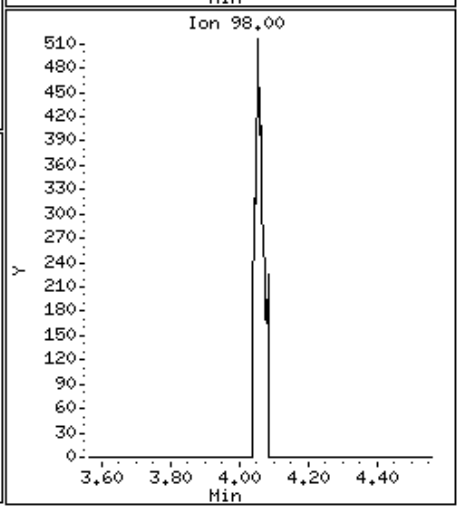


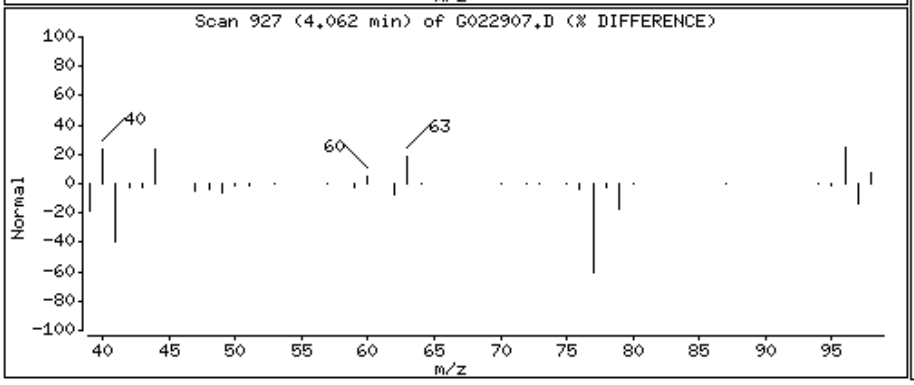












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240229.b\G022907.D Page 3

Date : 29-FEB-2024 22:58

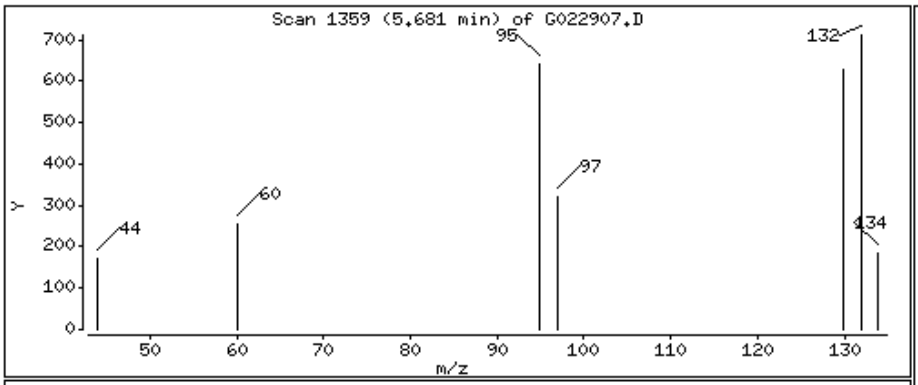
Client ID: Instrument: voa10.i

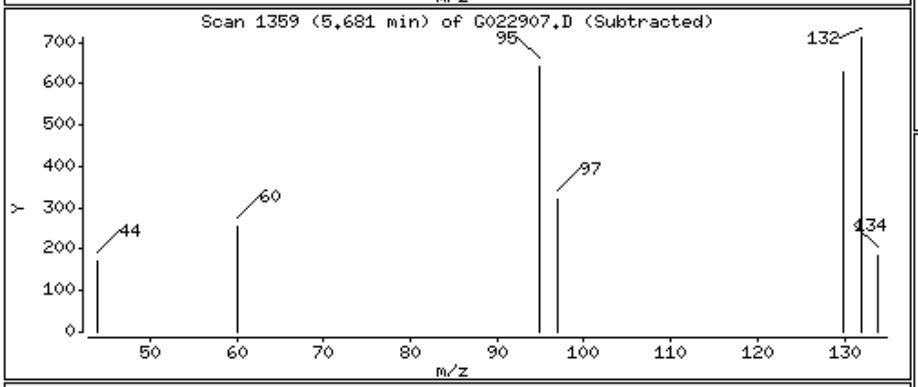
Sample Info: HS24021563-07;;;

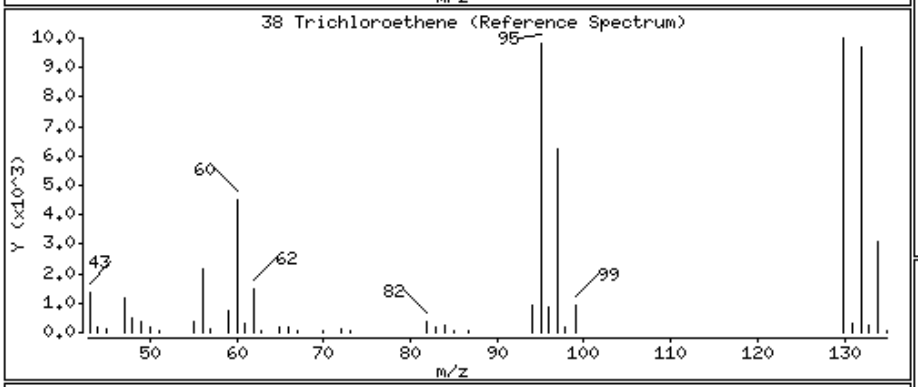
Purge Volume: 5.0 Operator: FT

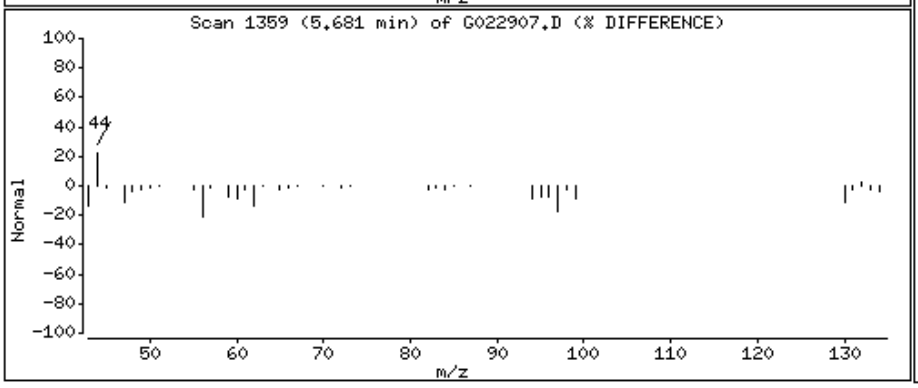
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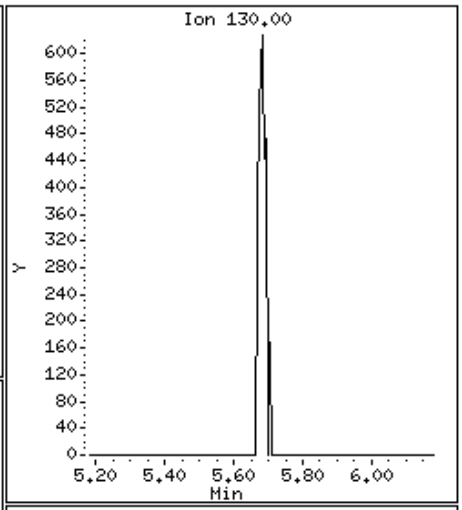
38 Trichloroethene Concentration: 0.55 ug/l

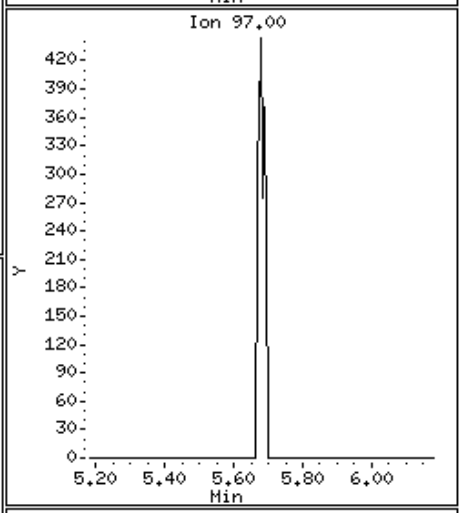


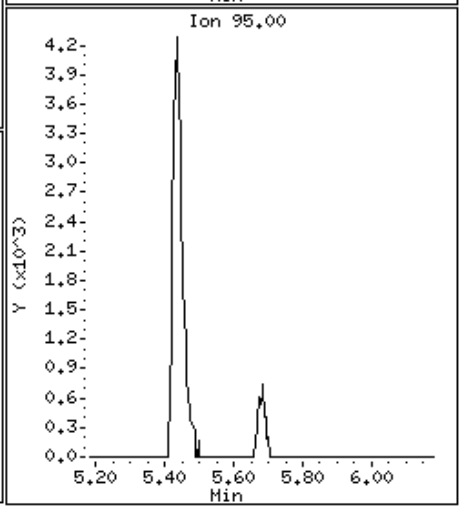












Data File : \\NAHSTWS005\Target\chem\voa10.i\F240229.b\G022907.D
Inj Date : 29-FEB-2024 22:58
InstruID : voa10.i
LabSampID : HS24021563-07

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa10.i\F240229.b\G022908.D Page 1
Report Date: 21-Mar-2024 10:27

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa10.i\F240229.b\G022908.D
Lab Smp Id: HS24021563-08
Inj Date : 29-FEB-2024 23:19
Operator : FT   Inst ID: voa10.i
Smp Info : HS24021563-08;;;
Misc Info : V10;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa10.i\F240229.b\8260W.m
Meth Date : 12-Mar-2024 12:00 Linh.Pham Quant Type: ISTD
Cal Date : 28-FEB-2024 18:12   Cal File: F022805.D
Als bottle: 36
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 01_STD_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

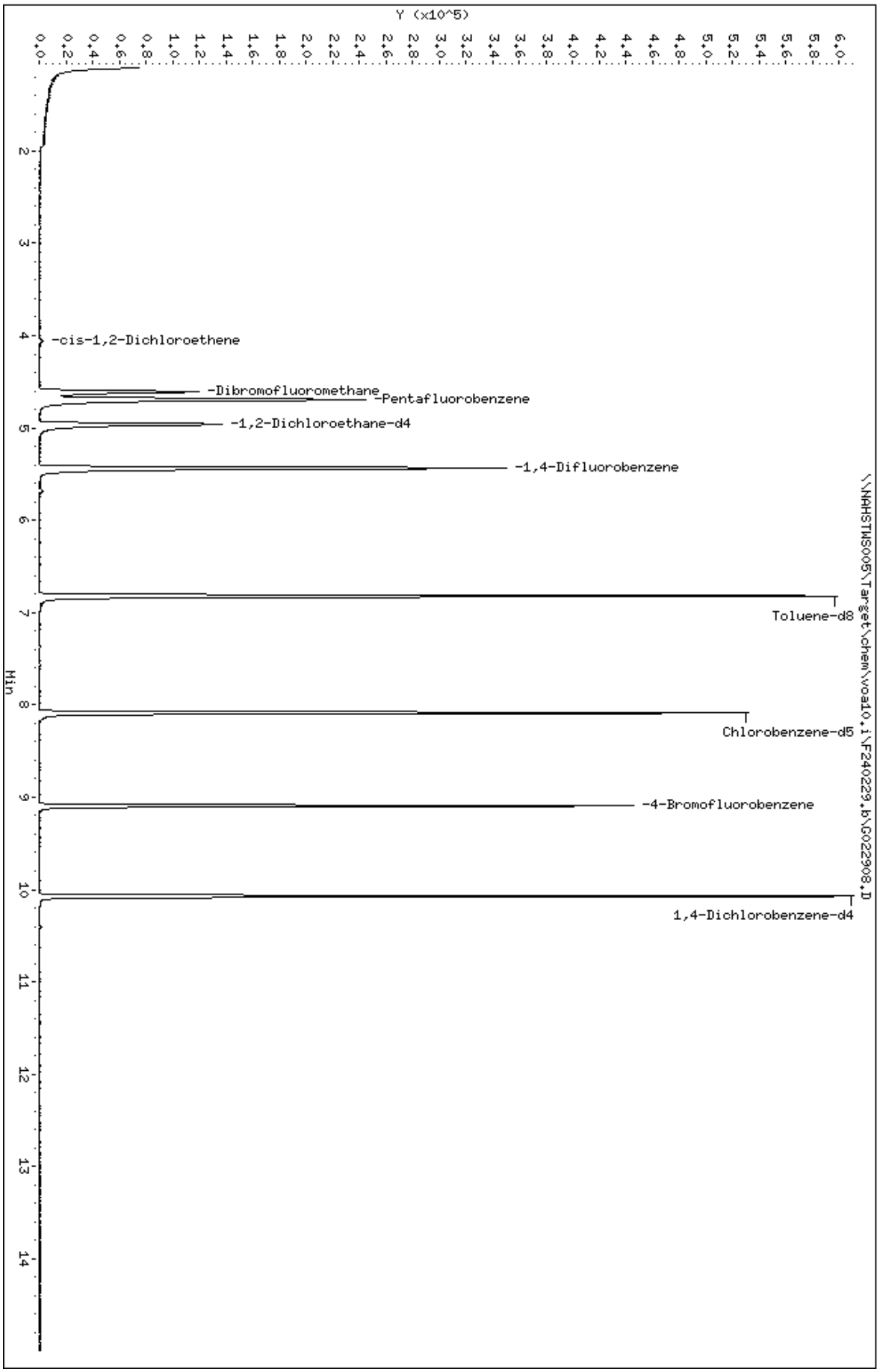
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
*	1 Pentafluorobenzene	168	4.695	4.695	(1.000)	207455	50.0000	
	27 cis-1,2-Dichloroethene	96	4.061	4.061	(0.865)	1257	0.65005	0.65(aH)
$	30 Dibromofluoromethane	113	4.613	4.613	(0.982)	86754	55.6601	55.66
$	35 1,2-Dichloroethane-d4	65	4.957	4.961	(1.056)	107298	49.0738	49.07
*	36 1,4-Difluorobenzene	114	5.437	5.437	(1.000)	300949	50.0000	
*	47 Chlorobenzene-d5	117	8.084	8.084	(1.000)	260410	50.0000	
$	48 Toluene-d8	98	6.820	6.820	(0.844)	355064	52.8152	52.81
$	69 4-Bromofluorobenzene	95	9.092	9.092	(1.125)	122458	50.5451	50.54
*	70 1,4-Dichlorobenzene-d4	152	10.074	10.071	(1.000)	139053	50.0000	
M	94 1,2-Dichloroethylene (total)	96				1257	0.65005	0.65(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
H - Operator selected an alternate compound hit.



Data File: \\NAHSTWS005\Target\chem\voa10.i\F240229.b\G022908.D
Date : 29-FEB-2024 23:19
Client ID:
Sample Info: HS24021563-08;;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa10.i
Operator: FT
Column diameter: 0.18

Data File: \\NAHSTWS005\Target\chem\voa10.i\F240229.b\G022908.D Page 2

Date : 29-FEB-2024 23:19

Client ID:

Instrument: voa10.i

Sample Info: HS24021563-08;;;

Purge Volume: 5.0

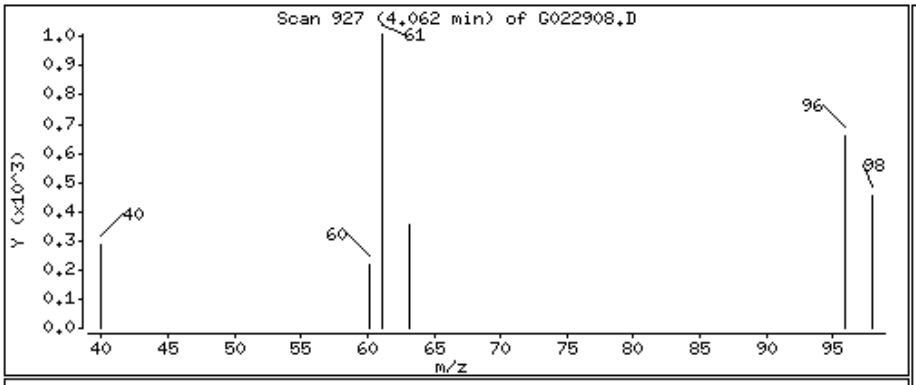
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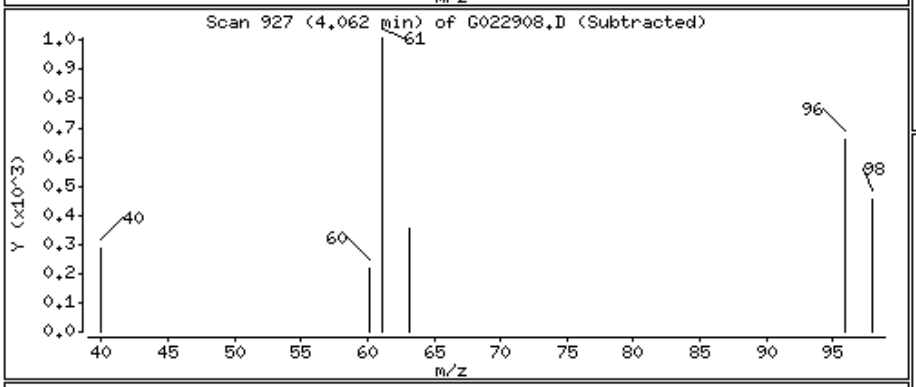
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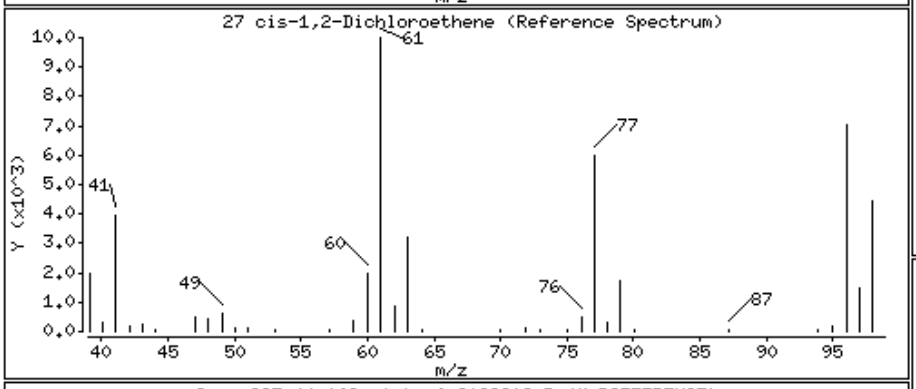
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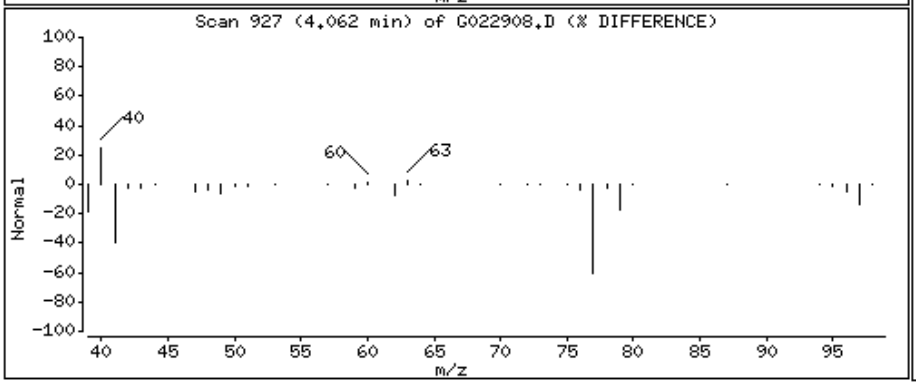
27 cis-1,2-Dichloroethene

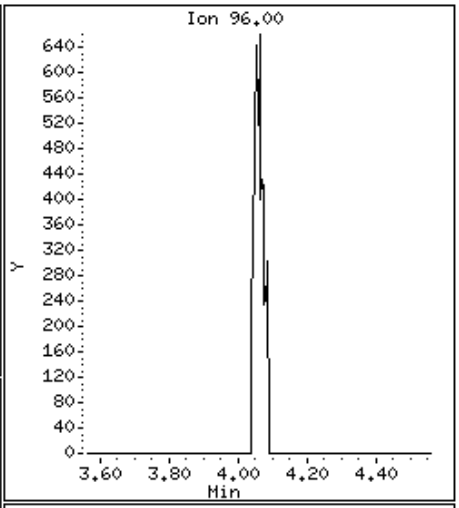
Concentration: 0.65 ug/l

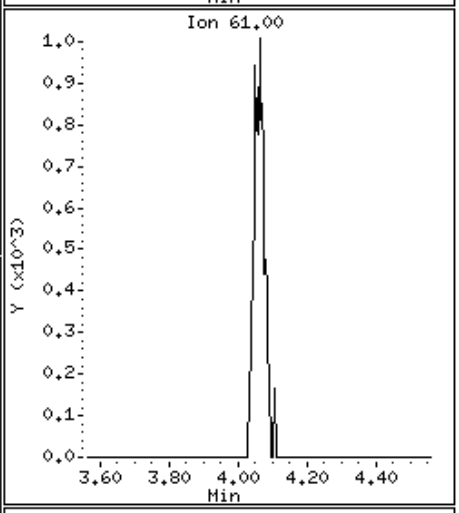


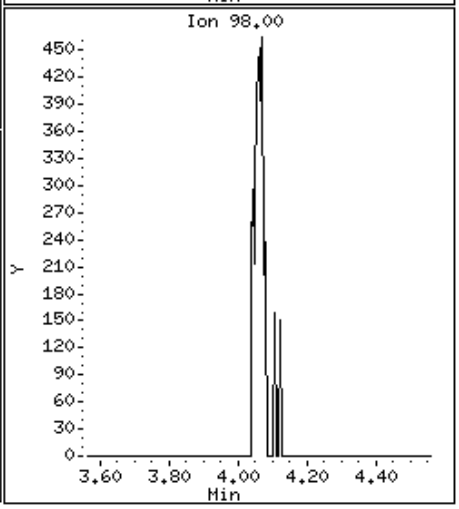












Data File : \\NAHSTWS005\Target\chem\voa10.i\F240229.b\G022908.D
Inj Date : 29-FEB-2024 23:19
InstruID : voa10.i
LabSampID : HS24021563-08

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa10.i\F240229.b\G022910.D Page 1
Report Date: 11-Mar-2024 13:53

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa10.i\F240229.b\G022910.D
Lab Smp Id: HS24021593-04MS Client Smp ID: HS4021593-04MS
Inj Date : 01-MAR-2024 00:01
Operator : FT Inst ID: voa10.i
Smp Info : HS24021593-04MS;HS4021593-04MS;3;;MS
Misc Info : V10;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa10.i\F240229.b\8260W.m
Meth Date : 11-Mar-2024 13:53 voa10.i Quant Type: ISTD
Cal Date : 28-FEB-2024 18:12 Cal File: F022805.D
Als bottle: 38 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 01_STD_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.691	4.695	(1.000)	216025	50.0000	
2 Dichlorodifluoromethane	85	1.152	1.152	(0.246)	34961	18.7545	18.75
3 Chloromethane	50	1.280	1.280	(0.273)	68751	17.5049	17.50
4 Propionitrile	54	4.155	4.155	(0.886)	39127	156.381	156.38(a)
5 Vinyl Chloride	62	1.355	1.355	(0.289)	52249	20.3844	20.38
6 Bromomethane	94	1.587	1.587	(0.338)	16105	18.0376	18.03
7 Chloroethane	64	1.666	1.662	(0.355)	28562	18.7931	18.79
8 Trichlorofluoromethane	101	1.853	1.857	(0.395)	45873	18.0982	18.09
9 Acrolein	56	3.169	3.169	(0.676)	29207	45.0172	45.01
10 Acetone	43	2.314	2.318	(0.493)	22554	26.7580	26.75
11 1,1-Dichloroethene	96	2.266	2.269	(0.483)	34214	22.1553	22.15
12 Isobutyl Alcohol	43	5.160	5.160	(1.100)	94972	318.963	318.96
13 Acetonitrile	39	2.588	2.588	(0.552)	38746	144.453	144.45
14 Allyl Chloride	41	2.584	2.588	(0.551)	61583	16.3429	16.34
15 Iodomethane	142	2.397	2.397	(0.511)	48249	46.0658	46.06
16 Acrylonitrile	53	2.933	2.933	(0.625)	21250	32.0125	32.01
17 Methylene Chloride	84	2.700	2.704	(0.576)	36319	19.7268	19.72
18 Methyl tert-butyl ether	73	2.978	2.974	(0.635)	83048	16.0341	16.03
19 Carbon Disulfide	76	2.453	2.457	(0.523)	206728	41.4257	41.42
20 trans-1,2-Dichloroethene	96	2.967	2.967	(0.632)	55132	30.1755	30.17

21 Vinyl Acetate	43	3.480	3.477 (0.742)	149770	34.1034	34.10
22 1,1-Dichloroethane	63	3.394	3.398 (0.724)	70209	18.8049	18.80

Data File: \\NAHSTWS005\Target\chem\voa10.i\F240229.b\G022910.D Page 2
Report Date: 11-Mar-2024 13:53

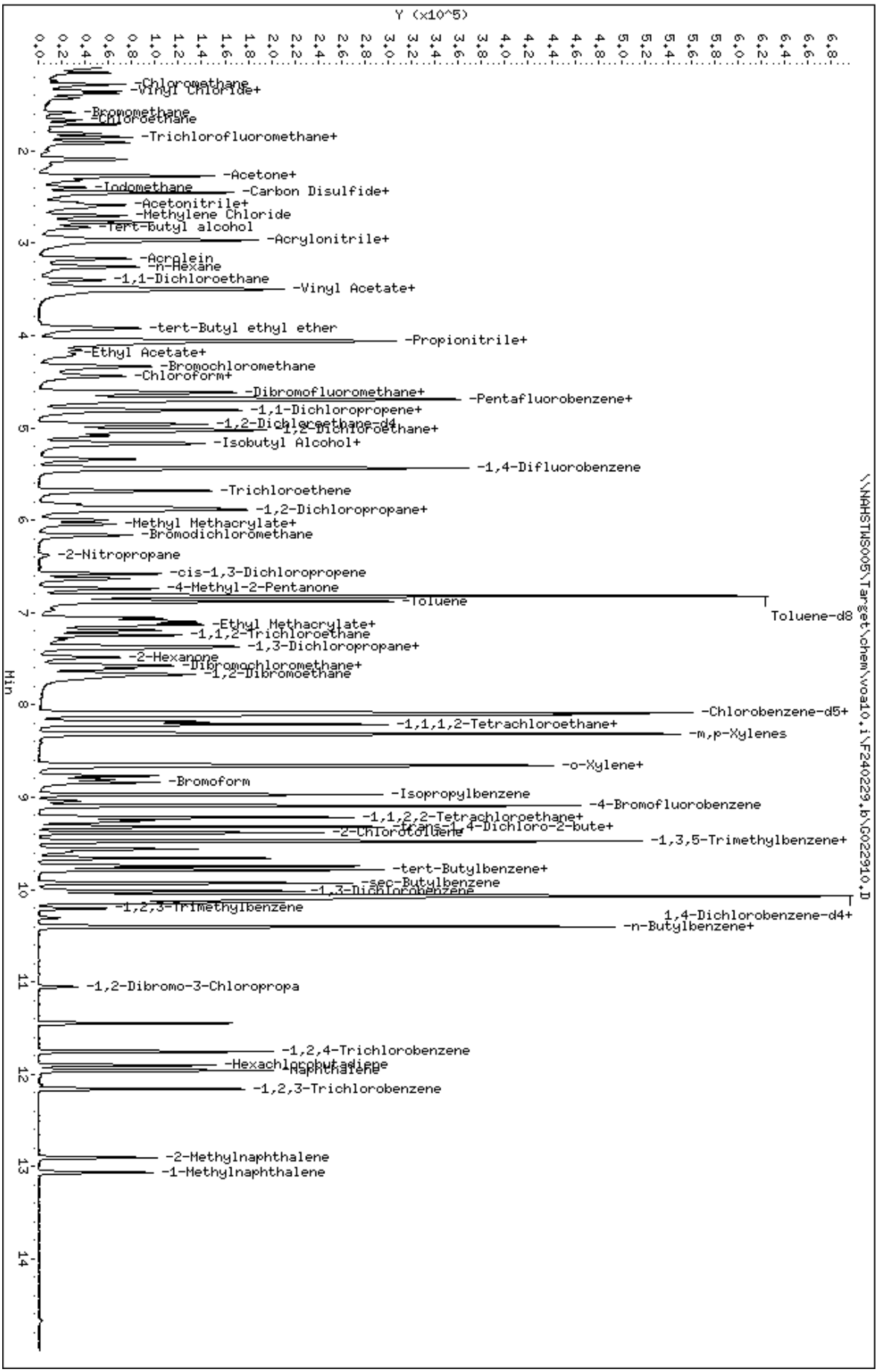
			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)
	24	2-Butanone	43	4.099	4.095	(0.874)	26758	31.4579	31.45
	25	Methacrylonitrile	41	4.054	4.054	(0.864)	36344	18.7453	18.74
	26	2,2-Dichloropropane	77	4.054	4.058	(0.864)	47721	18.7567	18.75
	27	cis-1,2-Dichloroethene	96	4.057	4.061	(0.865)	144076	71.5522	71.55
	28	Chloroform	83	4.436	4.436	(0.946)	64794	19.9215	19.92
	29	Bromochloromethane	128	4.327	4.335	(0.922)	17932	21.9243	21.92
$	30	Dibromofluoromethane	113	4.612	4.612	(0.983)	81331	49.8487	49.84
	31	1,1,1-Trichloroethane	97	4.627	4.624	(0.986)	59837	21.7556	21.75
	32	1,1-Dichloropropene	75	4.803	4.811	(0.883)	58241	21.5705	21.57
	33	1,2-Dichloroethane	62	5.040	5.040	(0.927)	52005	19.6204	19.62
	34	Carbon Tetrachloride	117	4.803	4.807	(0.883)	49295	24.0058	24.00
$	35	1,2-Dichloroethane-d4	65	4.961	4.965	(1.058)	109274	47.9229	47.92
*	36	1,4-Difluorobenzene	114	5.437	5.437	(1.000)	307699	50.0000	
	37	Benzene	78	5.021	5.021	(0.923)	171424	20.9112	20.91
	38	Trichloroethene	130	5.684	5.684	(1.046)	46955	25.5650	25.56
	39	Bromodichloromethane	83	6.157	6.161	(1.132)	49896	20.6122	20.61
	40	Methyl Methacrylate	41	6.044	6.044	(1.288)	32125	14.8136	14.81
	42	1,2-Dichloropropane	63	5.887	5.891	(1.083)	45017	20.3605	20.36
	43	2-Nitropropane	43	6.374	6.378	(1.359)	6377	17.2308	17.23
	44	Dibromomethane	93	5.999	5.996	(1.103)	21346	21.8222	21.82
	45	4-Methyl-2-Pentanone	43	6.741	6.738	(0.834)	74423	34.0710	34.07
	46	cis-1,3-Dichloropropene	75	6.580	6.580	(1.210)	55064	19.9350	19.93
*	47	Chlorobenzene-d5	117	8.084	8.084	(1.000)	251270	50.0000	
$	48	Toluene-d8	98	6.820	6.820	(0.844)	354542	54.7548	54.75
	49	Ethyl Methacrylate	69	7.105	7.101	(1.307)	22605	17.9887	17.98
	50	Toluene	91	6.880	6.880	(0.851)	163290	21.1369	21.13
	51	trans-1,3-Dichloropropene	75	7.086	7.086	(1.303)	42732	20.1295	20.12
	52	2-Hexanone	43	7.484	7.484	(0.926)	48582	35.9684	35.96
	53	1,1,2-Trichloroethane	83	7.244	7.240	(0.896)	27555	20.8630	20.86
	54	1,3-Dichloropropane	76	7.390	7.386	(0.914)	59867	20.6535	20.65
	55	Dibromochloromethane	129	7.581	7.581	(0.938)	34737	22.3094	22.30
	56	Tetrachloroethene	164	7.368	7.364	(0.911)	32162	23.7915	23.79
	57	1,2-Dibromoethane	107	7.671	7.671	(0.949)	30121	20.7437	20.74
	58	1-Chlorohexane	55	8.102	8.106	(1.490)	39987	21.3531	21.35
	59	Chlorobenzene	112	8.110	8.110	(1.003)	99400	21.7610	21.76
	60	1,1,1,2-Tetrachloroethane	131	8.185	8.185	(1.013)	34999	22.1492	22.14
	61	Ethylbenzene	106	8.215	8.211	(1.016)	52321	22.6726	22.67
	62	m,p-Xylenes	106	8.316	8.316	(1.029)	128280	43.3083	43.30
	63	o-Xylene	106	8.653	8.653	(1.070)	61861	21.6463	21.64
	64	Styrene	104	8.665	8.665	(1.072)	105277	22.8189	22.81
	66	Bromoform	173	8.811	8.811	(1.090)	23525	22.3066	22.30
	67	Isopropylbenzene	105	8.968	8.972	(1.109)	160502	22.3116	22.31
	68	1,1,2,2-Tetrachloroethane	83	9.219	9.219	(0.916)	40699	19.4544	19.45
$	69	4-Bromofluorobenzene	95	9.092	9.092	(1.125)	118622	50.7541	50.75
*	70	1,4-Dichlorobenzene-d4	152	10.070	10.070	(1.000)	138046	50.0000	
	71	1,2,3-Trichloropropane	75	9.253	9.253	(0.919)	41938	16.6829	16.68
	72	trans-1,4-Dichloro-2-butene	53	9.272	9.268	(1.147)	9132	17.9881	17.98
	73	n-Propylbenzene	91	9.321	9.321	(0.926)	186714	21.6569	21.65
	74	Bromobenzene	156	9.216	9.216	(0.915)	43246	21.4964	21.49
	75	1,3,5-Trimethylbenzene	105	9.470	9.471	(0.940)	127785	21.3886	21.38
	76	2-Chlorotoluene	91	9.384	9.384	(0.932)	111764	20.5488	20.54
	77	4-Chlorotoluene	91	9.478	9.478	(0.941)	129770	20.7608	20.76

78	tert-Butylbenzene	119	9.748	9.748 (0.968)	110165	22.1217	22.12
79	1,2,4-Trimethylbenzene	105	9.785	9.785 (0.972)	127605	21.0377	21.03

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
81 sec-Butylbenzene	105	9.932	9.932	(0.986)	151767	22.2600	22.26
82 p-Isopropyltoluene	119	10.055	10.059	(0.999)	129489	22.2460	22.24
83 1,3-Dichlorobenzene	146	10.014	10.014	(0.994)	78217	21.4062	21.40
84 1,4-Dichlorobenzene	146	10.093	10.093	(1.002)	83126	21.3319	21.33
87 n-Butylbenzene	91	10.400	10.400	(1.033)	121263	21.0978	21.09
88 1,2-Dichlorobenzene	146	10.404	10.404	(1.033)	78124	21.5797	21.57
89 1,2-Dibromo-3-Chloropropane	155	11.056	11.053	(1.098)	6359	21.3689	21.36
90 1,2,4-Trichlorobenzene	180	11.753	11.753	(1.167)	53279	23.4152	23.41
91 Hexachlorobutadiene	225	11.903	11.907	(1.182)	25424	24.2797	24.27
92 Naphthalene	128	11.960	11.960	(1.188)	118680	20.4465	20.44
93 1,2,3-Trichlorobenzene	180	12.162	12.162	(1.208)	46956	23.3462	23.34
135 1,4-Dioxane	88	6.044	6.041	(1.288)	4558	346.054	346.05(a)
130 Ethyl Acetate	43	4.196	4.192	(0.895)	36629	16.3312	16.33
136 n-Hexane	57	3.255	3.259	(0.694)	48580	21.5632	21.56
138 Freon TF	101	2.273	2.277	(0.485)	33803	21.4776	21.47
141 Cyclohexane	56	4.683	4.687	(0.998)	74406	21.9815	21.98
142 Tetrahydrofuran	42	4.402	4.402	(0.938)	6627	22.2737	22.27
146 Methyl Acetate	43	2.614	2.614	(0.557)	43353	16.4959	16.49
147 Methylcyclohexane	55	5.861	5.864	(1.078)	51034	17.0160	17.01
148 Tert-butyl alcohol	59	2.828	2.824	(0.603)	37959	287.162	287.16
149 Isopropyl alcohol	45	2.449	2.446	(0.522)	27181	321.419	321.41
151 4-Methyl-2-pentanol	45	7.105	7.101	(1.307)	60357	149.822	149.82
156 Diisopropyl ether	45	3.503	3.503	(0.747)	130284	15.4876	15.48
158 Dichlorofluoromethane	67	1.812	1.812	(0.386)	46940	15.4848	15.48
166 1,2,3-Trimethylbenzene	105	10.142	10.142	(1.007)	96712	16.8129	16.81
160 2-Methylnaphthalene	142	12.904	12.904	(1.281)	40531	19.3630	19.36
180 1-Methylnaphthalene	142	13.062	13.062	(1.297)	38836	20.2905	20.29
174 tert-Amyl methyl ether	73	5.175	5.171	(1.103)	86141	15.8173	15.81
175 tert-Butyl ethyl ether	59	3.923	3.919	(0.836)	95394	15.3433	15.34
132 n-Butanol	56	5.864	5.864	(1.250)	17548	347.084	347.08(a)
140 1,3-Butadiene	54	1.377	1.381	(0.294)	14295	17.9154	17.91
189 n-Butyl acetate	43	7.611	7.608	(0.942)	49842	15.6759	15.67
86 Benzyl Chloride	91	10.400	10.400	(1.287)	121263	21.9095	21.90
150 Allyl alcohol	57	3.480	3.484	(0.742)	5831	290.827	290.82
162 Butyl acrylate	55	8.638	8.638	(1.069)	59354	15.4915	15.49
131 Methyl Acrylate	55	4.222	4.219	(0.900)	29540	16.6453	16.64
133 Ethyl Acrylate	55	5.827	5.823	(1.242)	33980	14.6970	14.69
M 94 1,2-Dichloroethylene (total)	96				199208	101.728	101.72
M 95 Xylenes (total)	106				190141	64.9546	64.95

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).



Data File: \\NAHSTWS005\Target\chem\voa10.i\F240229.b\G022910.D
Date : 01-MAR-2024 00:01
Client ID: HS4021593-04HS
Sample Info: HS4021593-04HS;HS4021593-04HS;3;;HS
Purge Volume: 5.0
Column phase: DB624

Instrument: voa10.i
Operator: FT
Column diameter: 0.18

Page 1

Data File : \\NAHSTWS005\Target\chem\voa10.i\F240229.b\G022910.D
Inj Date : 01-MAR-2024 00:01
InstruID : voa10.i
LabSampID : HS24021593-04MS

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa10.i\F240229.b\G022911.D Page 1
Report Date: 11-Mar-2024 13:53

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa10.i\F240229.b\G022911.D
Lab Smp Id: HS24021593-04MSD Client Smp ID: HS4021593-04MSD
Inj Date : 01-MAR-2024 00:22
Operator : FT Inst ID: voa10.i
Smp Info : HS24021593-04MSD;HS4021593-04MSD;3;;MSD
Misc Info : V10;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa10.i\F240229.b\8260W.m
Meth Date : 11-Mar-2024 13:53 voa10.i Quant Type: ISTD
Cal Date : 28-FEB-2024 18:12 Cal File: F022805.D
Als bottle: 38 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 01_STD_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.695	4.695	(1.000)	214534	50.0000	
2 Dichlorodifluoromethane	85	1.149	1.152	(0.245)	31983	17.2762	17.27
3 Chloromethane	50	1.280	1.280	(0.273)	64442	16.5218	16.52
4 Propionitrile	54	4.155	4.155	(0.885)	40636	163.541	163.54(a)
5 Vinyl Chloride	62	1.355	1.355	(0.289)	48716	19.1381	19.13
6 Bromomethane	94	1.587	1.587	(0.338)	17244	19.5323	19.53
7 Chloroethane	64	1.658	1.662	(0.353)	27396	18.1511	18.15
8 Trichlorofluoromethane	101	1.853	1.857	(0.395)	50929	20.2326	20.23
9 Acrolein	56	3.165	3.169	(0.674)	26621	41.3166	41.31
10 Acetone	43	2.314	2.318	(0.493)	23388	27.9522	27.95
11 1,1-Dichloroethene	96	2.269	2.269	(0.483)	32867	21.4309	21.43
12 Isobutyl Alcohol	43	5.163	5.160	(1.100)	95874	324.230	324.22
13 Acetonitrile	39	2.584	2.588	(0.550)	39019	146.339	146.33
14 Allyl Chloride	41	2.588	2.588	(0.551)	59501	15.8725	15.87
15 Iodomethane	142	2.393	2.397	(0.510)	49597	47.5302	47.53
16 Acrylonitrile	53	2.933	2.933	(0.625)	22407	34.1967	34.19
17 Methylene Chloride	84	2.704	2.704	(0.576)	36057	19.7205	19.72
18 Methyl tert-butyl ether	73	2.974	2.974	(0.634)	79675	15.4898	15.48
19 Carbon Disulfide	76	2.453	2.457	(0.523)	200079	40.4099	40.40
20 trans-1,2-Dichloroethene	96	2.963	2.967	(0.631)	52040	28.6811	28.68

21 Vinyl Acetate	43	3.473	3.477 (0.740)	149802	34.3478	34.34
22 1,1-Dichloroethane	63	3.394	3.398 (0.723)	68214	18.3976	18.39

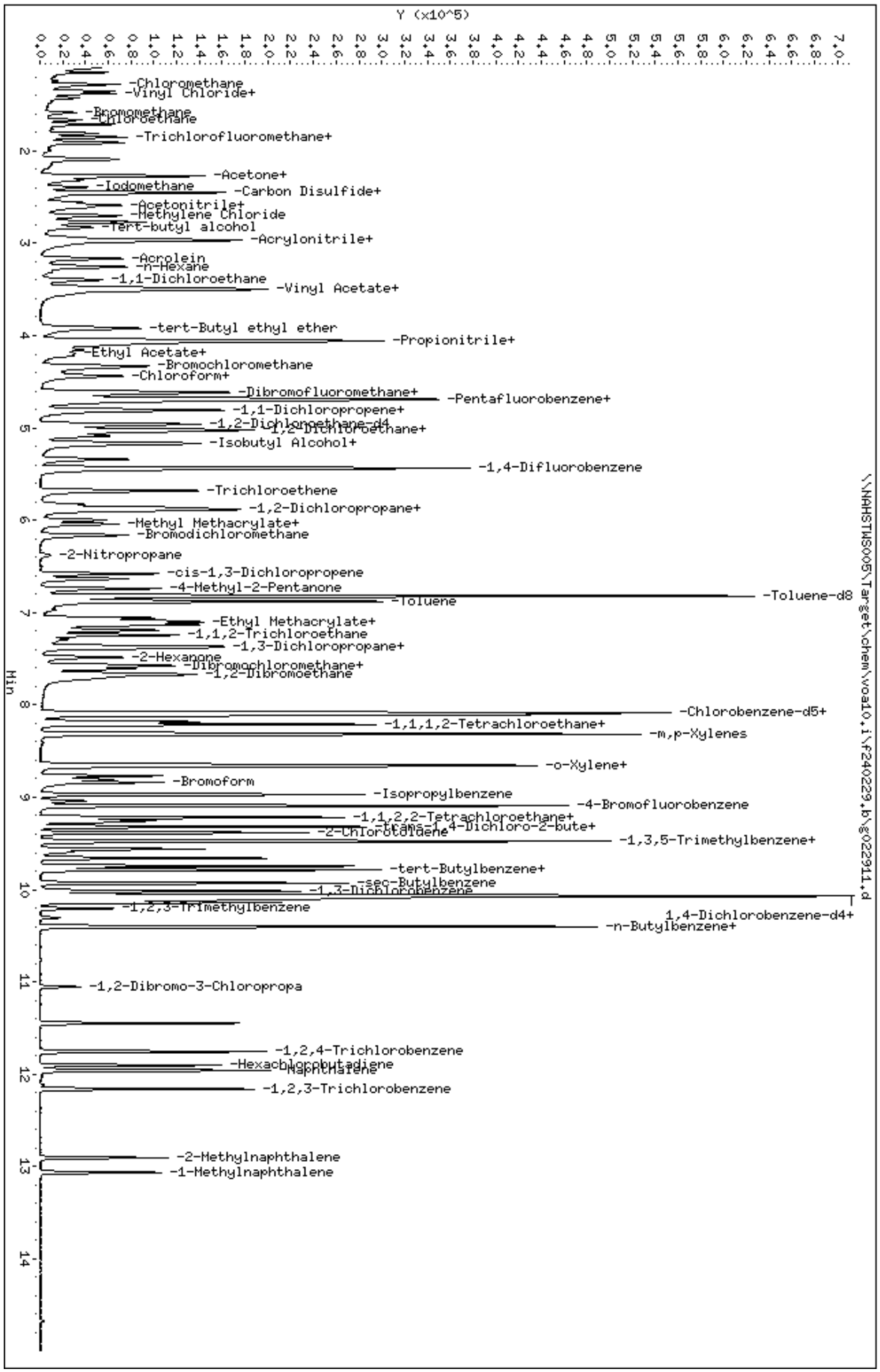
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	24 2-Butanone	43	4.103	4.095	(0.874)	28946	34.1593	34.15
	25 Methacrylonitrile	41	4.058	4.054	(0.864)	34319	17.7564	17.75
	26 2,2-Dichloropropane	77	4.054	4.058	(0.863)	46004	18.2075	18.20
	27 cis-1,2-Dichloroethene	96	4.058	4.061	(0.864)	139730	69.8762	69.87
	28 Chloroform	83	4.440	4.436	(0.946)	63528	19.6569	19.65
	29 Bromochloromethane	128	4.331	4.335	(0.923)	17439	21.4697	21.46
$	30 Dibromofluoromethane	113	4.612	4.612	(0.982)	82795	51.1594	51.15
	31 1,1,1-Trichloroethane	97	4.624	4.624	(0.985)	55484	20.3131	20.31
	32 1,1-Dichloropropene	75	4.807	4.811	(0.884)	55573	20.5204	20.52
	33 1,2-Dichloroethane	62	5.043	5.040	(0.928)	51153	19.2409	19.24
	34 Carbon Tetrachloride	117	4.804	4.807	(0.883)	46639	22.6096	22.60
$	35 1,2-Dichloroethane-d4	65	4.961	4.965	(1.057)	109116	48.2039	48.20
*	36 1,4-Difluorobenzene	114	5.437	5.437	(1.000)	308628	50.0000	
	37 Benzene	78	5.021	5.021	(0.923)	161796	19.6773	19.67
	38 Trichloroethene	130	5.681	5.684	(1.045)	43991	23.8791	23.87
	39 Bromodichloromethane	83	6.161	6.161	(1.133)	47890	19.7240	19.72
	40 Methyl Methacrylate	41	6.044	6.044	(1.287)	31206	14.4898	14.48
	42 1,2-Dichloropropane	63	5.891	5.891	(1.083)	43588	19.6549	19.65
	43 2-Nitropropane	43	6.374	6.378	(1.358)	7225	19.5574	19.55
	44 Dibromomethane	93	5.996	5.996	(1.103)	20643	21.0400	21.04
	45 4-Methyl-2-Pentanone	43	6.738	6.738	(0.834)	77945	35.4046	35.40
	46 cis-1,3-Dichloropropene	75	6.580	6.580	(1.210)	53549	19.3282	19.32
*	47 Chlorobenzene-d5	117	8.084	8.084	(1.000)	252864	50.0000	
$	48 Toluene-d8	98	6.820	6.820	(0.844)	354554	54.3934	54.39
	49 Ethyl Methacrylate	69	7.105	7.101	(1.307)	23673	18.8224	18.82
	50 Toluene	91	6.880	6.880	(0.851)	157651	20.2783	20.27
	51 trans-1,3-Dichloropropene	75	7.086	7.086	(1.303)	42329	19.8797	19.87
	52 2-Hexanone	43	7.480	7.484	(0.925)	51178	37.6515	37.65
	53 1,1,2-Trichloroethane	83	7.244	7.240	(0.896)	27722	20.8572	20.85
	54 1,3-Dichloropropane	76	7.386	7.386	(0.914)	58654	20.1074	20.10
	55 Dibromochloromethane	129	7.581	7.581	(0.938)	34506	22.0213	22.02
	56 Tetrachloroethene	164	7.368	7.364	(0.911)	31064	22.8344	22.83
	57 1,2-Dibromoethane	107	7.671	7.671	(0.949)	31236	21.3760	21.37
	58 1-Chlorohexane	55	8.102	8.106	(1.490)	38803	20.6324	20.63
	59 Chlorobenzene	112	8.110	8.110	(1.003)	95173	20.7043	20.70
	60 1,1,1,2-Tetrachloroethane	131	8.185	8.185	(1.013)	33946	21.3474	21.34
	61 Ethylbenzene	106	8.211	8.211	(1.016)	50360	21.6853	21.68
	62 m,p-Xylenes	106	8.316	8.316	(1.029)	124664	41.8222	41.82
	63 o-Xylene	106	8.650	8.653	(1.070)	59969	20.8520	20.85
	64 Styrene	104	8.665	8.665	(1.072)	103113	22.2090	22.20
	66 Bromoform	173	8.811	8.811	(1.090)	23877	22.4976	22.49
	67 Isopropylbenzene	105	8.968	8.972	(1.109)	155458	21.4742	21.47
	68 1,1,2,2-Tetrachloroethane	83	9.219	9.219	(0.916)	42894	20.0634	20.06
$	69 4-Bromofluorobenzene	95	9.092	9.092	(1.125)	118980	50.5768	50.57
*	70 1,4-Dichlorobenzene-d4	152	10.070	10.070	(1.000)	141075	50.0000	
	71 1,2,3-Trichloropropane	75	9.249	9.253	(0.918)	44162	17.1874	17.18
	72 trans-1,4-Dichloro-2-butene	53	9.272	9.268	(1.147)	9811	19.2038	19.20
	73 n-Propylbenzene	91	9.321	9.321	(0.926)	182569	20.7215	20.72
	74 Bromobenzene	156	9.216	9.216	(0.915)	42345	20.5966	20.59
	75 1,3,5-Trimethylbenzene	105	9.471	9.471	(0.940)	125984	20.6344	20.63
	76 2-Chlorotoluene	91	9.384	9.384	(0.932)	110040	19.7974	19.79
	77 4-Chlorotoluene	91	9.478	9.478	(0.941)	126492	19.8019	19.80

78	tert-Butylbenzene	119	9.744	9.748 (0.968)	108964	21.4107	21.41
79	1,2,4-Trimethylbenzene	105	9.785	9.785 (0.972)	127078	20.5010	20.50

						CONCENTRATIONS	
		QUANT SIG				ON-COLUMN	FINAL
	Compounds	MASS	RT	EXP RT	REL RT RESPONSE	(ug/l)	(ug/l)
	81 sec-Butylbenzene	105	9.932	9.932	(0.986) 150820	21.6462	21.64
	82 p-Isopropyltoluene	119	10.055	10.059	(0.999) 129509	21.7717	21.77
	83 1,3-Dichlorobenzene	146	10.018	10.014	(0.995) 78459	21.0114	21.01
	84 1,4-Dichlorobenzene	146	10.089	10.093	(1.002) 81699	20.5156	20.51
	87 n-Butylbenzene	91	10.400	10.400	(1.033) 121074	20.6130	20.61
	88 1,2-Dichlorobenzene	146	10.404	10.404	(1.033) 76722	20.7374	20.73
	89 1,2-Dibromo-3-Chloropropane	155	11.056	11.053	(1.098) 6551	21.5358	21.53
	90 1,2,4-Trichlorobenzene	180	11.753	11.753	(1.167) 53256	22.9065	22.90
	91 Hexachlorobutadiene	225	11.907	11.907	(1.182) 26816	25.0315	25.03
	92 Naphthalene	128	11.960	11.960	(1.188) 122083	20.5785	20.57
	93 1,2,3-Trichlorobenzene	180	12.162	12.162	(1.208) 49078	23.8610	23.86
	135 1,4-Dioxane	88	6.044	6.041	(1.287) 4892	375.348	375.34(a)
	130 Ethyl Acetate	43	4.192	4.192	(0.893) 36944	16.5861	16.58
	136 n-Hexane	57	3.255	3.259	(0.693) 45315	20.2537	20.25
	138 Freon TF	101	2.277	2.277	(0.485) 28672	18.3441	18.34
	141 Cyclohexane	56	4.684	4.687	(0.998) 68600	20.2931	20.29
	142 Tetrahydrofuran	42	4.402	4.402	(0.938) 10778	36.4771	36.47
	146 Methyl Acetate	43	2.614	2.614	(0.557) 44697	17.1254	17.12
	147 Methylcyclohexane	55	5.864	5.864	(1.079) 55174	18.3410	18.34
	148 Tert-butyl alcohol	59	2.828	2.824	(0.602) 38190	290.645	290.64
	149 Isopropyl alcohol	45	2.449	2.446	(0.522) 26054	310.267	310.26
	151 4-Methyl-2-pentanol	45	7.105	7.101	(1.307) 77581	184.306	184.30
	156 Diisopropyl ether	45	3.503	3.503	(0.746) 125823	15.0613	15.06
	158 Dichlorofluoromethane	67	1.808	1.812	(0.385) 45278	15.0403	15.04
	166 1,2,3-Trimethylbenzene	105	10.142	10.142	(1.007) 94897	16.1044	16.10
	160 2-Methylnaphthalene	142	12.904	12.904	(1.281) 44406	20.5900	20.59
	180 1-Methylnaphthalene	142	13.062	13.062	(1.297) 43166	21.9299	21.92
	174 tert-Amyl methyl ether	73	5.171	5.171	(1.101) 83170	15.3779	15.37
	175 tert-Butyl ethyl ether	59	3.919	3.919	(0.835) 95373	15.4465	15.44
	132 n-Butanol	56	5.861	5.864	(1.248) 16589	330.396	330.39(a)
	140 1,3-Butadiene	54	1.377	1.381	(0.293) 12886	16.2618	16.26
	189 n-Butyl acetate	43	7.611	7.608	(0.942) 51620	16.1058	16.10
	86 Benzyl Chloride	91	10.400	10.400	(1.287) 121074	21.7375	21.73
	150 Allyl alcohol	57	3.480	3.484	(0.741) 5549	279.848	279.84
	162 Butyl acrylate	55	8.642	8.638	(1.069) 60588	15.6828	15.68
	131 Methyl Acrylate	55	4.219	4.219	(0.899) 29709	16.8569	16.85
	133 Ethyl Acrylate	55	5.827	5.823	(1.241) 34543	15.0444	15.04
M	94 1,2-Dichloroethylene (total)	96			191770	98.5572	98.55
M	95 Xylenes (total)	106			184633	62.6742	62.67

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).



Data File: \\NAHSTWS005\Target\chem\voa10,i\f240229,b\g022911,d
Date : 01-MAR-2024 00:22
Client ID: HS4021593-04HSD
Sample Info: HS4021593-04HSD;HS4021593-04HSD;3;;HSD
Purge Volume: 5.0
Column phase: DB624

Instrument: voa10,i
Operator: FT
Column diameter: 0.18

Data File : \\nahstws005\target\chem\voa10.i\f240229.b\g022911.d
Inj Date : 01-MAR-2024 00:22
InstruID : voa10.i
LabSampID : HS24021593-04MSD

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa10.i\F240229.b\G022940.D Page 1
Report Date: 11-Mar-2024 13:54

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa10.i\F240229.b\G022940.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 01-MAR-2024 06:39
Operator : FT Inst ID: voa10.i
Smp Info : VSTD050;VSTD050;2;;CCV
Misc Info : V10;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa10.i\F240229.b\8260W.m
Meth Date : 11-Mar-2024 13:54 voa10.i Quant Type: ISTD
Cal Date : 28-FEB-2024 18:12 Cal File: F022805.D
Als bottle: 56 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 01_STD_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.695	4.695	(1.000)	210738	50.0000	
2	Dichlorodifluoromethane	85	1.153	1.153	(0.246)	74986	50.0000	41.23
3	Chloromethane	50	1.280	1.280	(0.273)	156901	50.0000	40.95
4	Propionitrile	54	4.155	4.155	(0.885)	102682	500.000	420.69
5	Vinyl Chloride	62	1.355	1.355	(0.289)	105317	50.0000	42.11
6	Bromomethane	94	1.584	1.584	(0.337)	40792	50.0000	48.56
7	Chloroethane	64	1.662	1.662	(0.354)	64039	50.0000	43.19
8	Trichlorofluoromethane	101	1.854	1.854	(0.395)	113191	50.0000	45.77
9	Acrolein	56	3.169	3.169	(0.675)	56625	100.000	89.46
10	Acetone	43	2.315	2.315	(0.493)	65590	100.000	81.88
11	1,1-Dichloroethene	96	2.266	2.266	(0.483)	72311	50.0000	47.99
12	Isobutyl Alcohol	43	5.160	5.160	(1.099)	262925	1000.00	905.18
13	Acetonitrile	39	2.588	2.588	(0.551)	106795	500.000	402.87
14	Allyl Chloride	41	2.588	2.588	(0.551)	165521	50.0000	45.85
15	Iodomethane	142	2.397	2.397	(0.511)	103818	100.000	95.17
16	Acrylonitrile	53	2.933	2.933	(0.625)	57281	100.000	94.35
17	Methylene Chloride	84	2.704	2.704	(0.576)	84444	50.0000	47.59
18	Methyl tert-butyl ether	73	2.974	2.974	(0.634)	233558	50.0000	46.22
19	Carbon Disulfide	76	2.453	2.453	(0.523)	448047	100.000	90.21
20	trans-1,2-Dichloroethene	96	2.967	2.967	(0.632)	83027	50.0000	46.58

21 Vinyl Acetate	43	3.477	3.477 (0.741)	385130	100.000	89.89
22 1,1-Dichloroethane	63	3.398	3.398 (0.724)	161746	50.0000	44.40

Data File: \\NAHSTWS005\Target\chem\voa10.i\F240229.b\G022940.D Page 2
Report Date: 11-Mar-2024 13:54

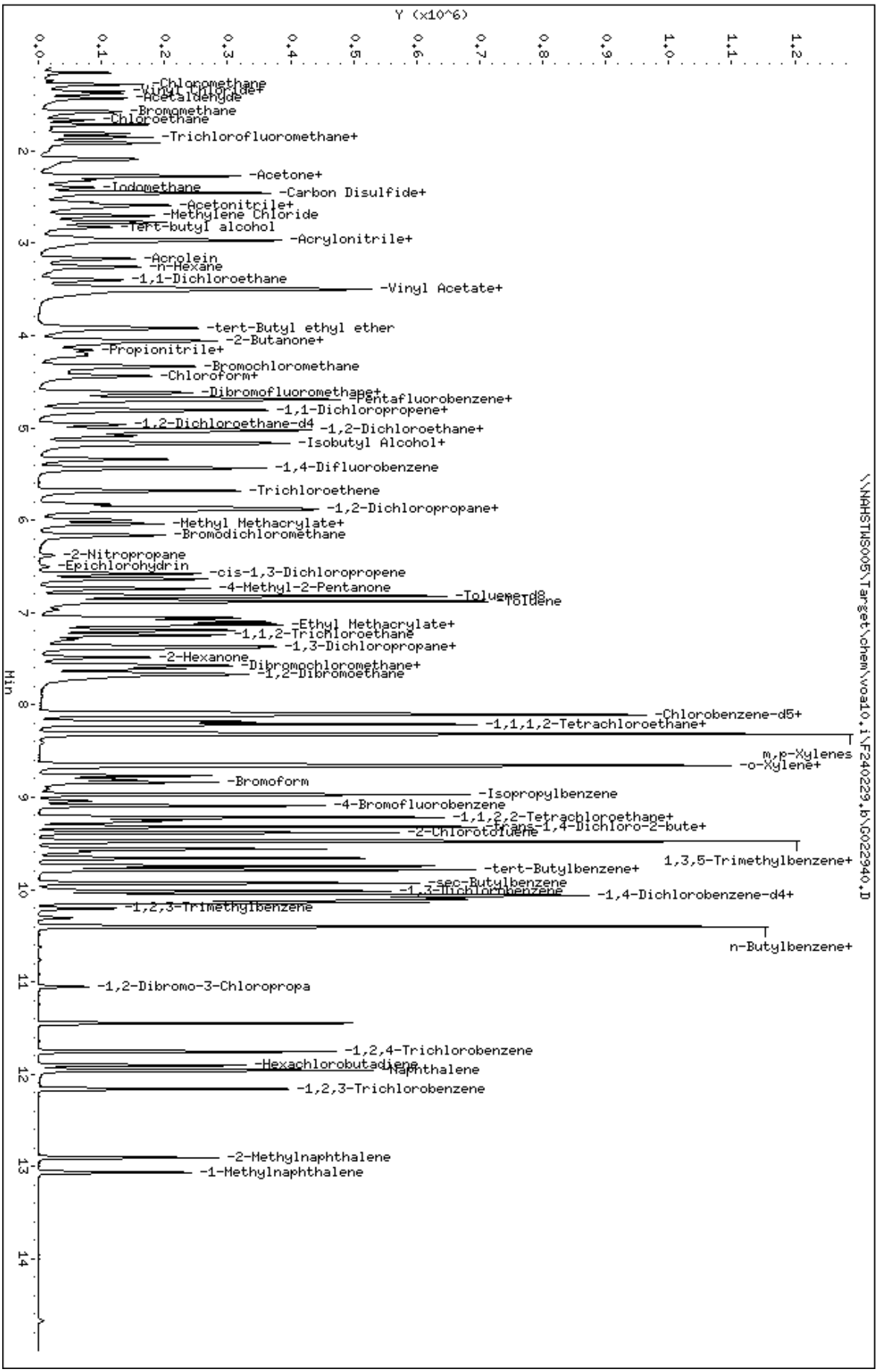
			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
	24	2-Butanone	43	4.099	4.099	(0.873)	66208	100.000	79.45
	25	Methacrylonitrile	41	4.054	4.054	(0.863)	70063	50.0000	38.38
	26	2,2-Dichloropropane	77	4.058	4.058	(0.864)	96337	50.0000	38.81
	27	cis-1,2-Dichloroethene	96	4.061	4.061	(0.865)	92939	50.0000	47.31
	28	Chloroform	83	4.440	4.440	(0.946)	149448	50.0000	48.29
	29	Bromochloromethane	128	4.331	4.331	(0.923)	41169	50.0000	51.59
$	30	Dibromofluoromethane	113	4.613	4.613	(0.982)	80086	50.0000	50.33
	31	1,1,1-Trichloroethane	97	4.628	4.628	(0.986)	128051	50.0000	47.72
	32	1,1-Dichloropropene	75	4.807	4.807	(0.884)	122719	50.0000	46.61
	33	1,2-Dichloroethane	62	5.040	5.040	(0.927)	120625	50.0000	46.67
	34	Carbon Tetrachloride	117	4.807	4.807	(0.884)	105229	50.0000	53.27
$	35	1,2-Dichloroethane-d4	65	4.961	4.961	(1.057)	99372	50.0000	44.46
*	36	1,4-Difluorobenzene	114	5.437	5.437	(1.000)	300017	50.0000	
	37	Benzene	78	5.021	5.021	(0.923)	384773	50.0000	48.13
	38	Trichloroethene	130	5.681	5.681	(1.045)	95105	50.0000	53.10
	39	Bromodichloromethane	83	6.161	6.161	(1.133)	117718	50.0000	49.87
	40	Methyl Methacrylate	41	6.041	6.041	(1.287)	90487	50.0000	42.77
	42	1,2-Dichloropropane	63	5.891	5.891	(1.083)	102844	50.0000	47.70
	43	2-Nitropropane	43	6.378	6.378	(1.358)	15922	50.0000	43.15
	44	Dibromomethane	93	6.000	6.000	(1.103)	49389	50.0000	51.78
	45	4-Methyl-2-Pentanone	43	6.738	6.738	(0.834)	180737	100.000	83.46
	46	cis-1,3-Dichloropropene	75	6.581	6.581	(1.210)	131810	50.0000	48.94
*	47	Chlorobenzene-d5	117	8.084	8.084	(1.000)	245788	50.0000	
$	48	Toluene-d8	98	6.820	6.820	(0.844)	344127	50.0000	54.30
	49	Ethyl Methacrylate	69	7.105	7.105	(1.307)	50541	50.0000	41.98
	50	Toluene	91	6.880	6.880	(0.851)	378205	50.0000	50.04
	51	trans-1,3-Dichloropropene	75	7.087	7.087	(1.303)	101763	50.0000	49.16
	52	2-Hexanone	43	7.484	7.484	(0.926)	116492	100.000	88.17
	53	1,1,2-Trichloroethane	83	7.240	7.240	(0.896)	66029	50.0000	51.10
	54	1,3-Dichloropropane	76	7.387	7.387	(0.914)	140039	50.0000	49.38
	55	Dibromochloromethane	129	7.581	7.581	(0.938)	85591	50.0000	56.19
	56	Tetrachloroethene	164	7.364	7.364	(0.911)	72723	50.0000	54.99
	57	1,2-Dibromoethane	107	7.671	7.671	(0.949)	73287	50.0000	51.59
	58	1-Chlorohexane	55	8.106	8.106	(1.491)	82291	50.0000	45.95
	59	Chlorobenzene	112	8.110	8.110	(1.003)	229284	50.0000	51.31
	60	1,1,1,2-Tetrachloroethane	131	8.181	8.181	(1.012)	83493	50.0000	54.01
	61	Ethylbenzene	106	8.211	8.211	(1.016)	121201	50.0000	53.69
	62	m,p-Xylenes	106	8.316	8.316	(1.029)	299312	100.000	103.30
	63	o-Xylene	106	8.650	8.650	(1.070)	145299	50.0000	51.97
	64	Styrene	104	8.665	8.665	(1.072)	254343	50.0000	56.35
	66	Bromoform	173	8.811	8.811	(1.090)	57929	50.0000	56.15
	67	Isopropylbenzene	105	8.972	8.972	(1.110)	370267	50.0000	52.61
	68	1,1,2,2-Tetrachloroethane	83	9.220	9.220	(0.916)	94996	50.0000	46.44
$	69	4-Bromofluorobenzene	95	9.092	9.092	(1.125)	114879	50.0000	50.22
*	70	1,4-Dichlorobenzene-d4	152	10.071	10.071	(1.000)	134976	50.0000	
	71	1,2,3-Trichloropropane	75	9.253	9.253	(0.919)	97918	50.0000	41.38
	72	trans-1,4-Dichloro-2-butene	53	9.268	9.268	(1.147)	19516	50.0000	39.29
	73	n-Propylbenzene	91	9.321	9.321	(0.926)	425023	50.0000	50.41
	74	Bromobenzene	156	9.216	9.216	(0.915)	101734	50.0000	51.71
	75	1,3,5-Trimethylbenzene	105	9.471	9.471	(0.940)	304469	50.0000	52.12
	76	2-Chlorotoluene	91	9.385	9.385	(0.932)	260197	50.0000	48.92
	77	4-Chlorotoluene	91	9.478	9.478	(0.941)	296133	50.0000	48.45

78	tert-Butylbenzene	119	9.744	9.744 (0.968)	251362	50.0000	51.62
79	1,2,4-Trimethylbenzene	105	9.786	9.786 (0.972)	302534	50.0000	51.01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	
	81 sec-Butylbenzene	105	9.932	9.932	(0.986)	343216	50.0000	51.48	
	82 p-Isopropyltoluene	119	10.056	10.056	(0.999)	303926	50.0000	53.40	
	83 1,3-Dichlorobenzene	146	10.014	10.014	(0.994)	184422	50.0000	51.62	
	84 1,4-Dichlorobenzene	146	10.093	10.093	(1.002)	190822	50.0000	50.08	
	87 n-Butylbenzene	91	10.400	10.400	(1.033)	272361	50.0000	48.44	
	88 1,2-Dichlorobenzene	146	10.404	10.404	(1.033)	182548	50.0000	51.57	
	89 1,2-Dibromo-3-Chloropropane	155	11.056	11.056	(1.098)	14426	50.0000	48.65	
	90 1,2,4-Trichlorobenzene	180	11.754	11.754	(1.167)	123810	50.0000	55.40	
	91 Hexachlorobutadiene	225	11.907	11.907	(1.182)	56447	50.0000	54.03	
	92 Naphthalene	128	11.960	11.960	(1.188)	281597	50.0000	50.07	
	93 1,2,3-Trichlorobenzene	180	12.162	12.162	(1.208)	111630	50.0000	55.73	
	135 1,4-Dioxane	88	6.041	6.041	(1.287)	11195	1000.00	896.74	
	130 Ethyl Acetate	43	4.193	4.193	(0.893)	95967	50.0000	43.86	
	136 n-Hexane	57	3.256	3.256	(0.693)	93149	50.0000	42.38	
	138 Freon TF	101	2.277	2.277	(0.485)	71120	50.0000	46.32	
	141 Cyclohexane	56	4.688	4.688	(0.998)	144304	50.0000	45.27	
	142 Tetrahydrofuran	42	4.403	4.403	(0.938)	26030	100.000	89.68	
	146 Methyl Acetate	43	2.615	2.615	(0.557)	112023	50.0000	43.69	
	147 Methylcyclohexane	55	5.861	5.861	(1.078)	150211	50.0000	51.36	
	148 Tert-butyl alcohol	59	2.824	2.824	(0.602)	101191	1000.00	767.21	
	149 Isopropyl alcohol	45	2.446	2.446	(0.521)	67849	1000.00	830.11	
	151 4-Methyl-2-pentanol	45	7.102	7.102	(1.306)	197446	1000.00	438.32	
	156 Diisopropyl ether	45	3.503	3.503	(0.746)	374002	50.0000	45.57	
	158 Dichlorofluoromethane	67	1.812	1.812	(0.386)	131795	50.0000	44.56	
	166 1,2,3-Trimethylbenzene	105	10.142	10.142	(1.007)	280612	50.0000	51.80	
	160 2-Methylnaphthalene	142	12.905	12.905	(1.281)	107921	50.0000	48.43	
	180 1-Methylnaphthalene	142	13.062	13.062	(1.297)	98999	50.0000	50.40	
	174 tert-Amyl methyl ether	73	5.171	5.171	(1.101)	253018	50.0000	47.62	
	175 tert-Butyl ethyl ether	59	3.919	3.919	(0.835)	281564	50.0000	46.42	
	132 n-Butanol	56	5.865	5.865	(1.249)	41547	1000.00	842.37	
	140 1,3-Butadiene	54	1.381	1.381	(0.294)	35097	50.0000	45.08	
	189 n-Butyl acetate	43	7.608	7.608	(0.941)	137011	50.0000	42.37	
	86 Benzyl Chloride	91	10.400	10.400	(1.287)	272361	50.0000	50.30	
	182 Epichlorohydrin	57	6.506	6.506	(1.196)	9586	200.000	153.47	
	150 Allyl alcohol	57	3.480	3.480	(0.741)	17298	1000.00	827.53	
	162 Butyl acrylate	55	8.639	8.639	(1.069)	168897	50.0000	40.92	
	194 Acetaldehyde	44	1.430	1.430	(0.305)	142204	200.000	173.93	
	131 Methyl Acrylate	55	4.223	4.223	(0.899)	78205	50.0000	45.17	
	133 Ethyl Acrylate	55	5.827	5.827	(1.241)	102522	50.0000	45.45	
M	94 1,2-Dichloroethylene (total)	96				175966	100.000		(a)
M	95 Xylenes (total)	106				444611	150.000		(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).



Data File: \\NAHSTWS005\Target\chem\voa10.i\F240229.b\G022940.D
Date : 01-MAR-2024 06:39
Client ID: VSTD050
Sample Info: VSTD050;VSTD050;2;;CCV
Purge Volume: 5.0
Column phase: DB624

Instrument: voa10.i
Operator: FT
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa10.i\F240229.b\G022940.D
Inj Date : 01-MAR-2024 06:39
InstruID : voa10.i
LabSampID : VSTD050

NO MANUAL INTEGRATIONS

right solutions.
right partner.

RawData

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24021563

Client

Bhate Environmental Associates, Inc.

Project

LHAAP / Site 46

03/21/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Data File: \\nahstws005\Target\chem\voa9.i\U240227.b\U022701.D Page 1
Report Date: 27-Feb-2024 10:43

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240227.b\U022701.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 27-FEB-2024 09:50
Operator : FT Inst ID: VOA9.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240227.b\bfb.m
Meth Date : 27-Jan-2023 08:08 apoluri Quant Type: ISTD
Cal Date : 30-MAR-2018 18:09 Cal File: U033003.d
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAHSTW7066

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	2.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/l)		
RT	EXP RT	REL RT	MASS	RESPONSE			TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
9.194	9.180	(0.000)	95	190912			0.00- 100.00	100.00
9.194	9.180	(0.000)	50	36728			15.00- 40.00	19.24
9.194	9.180	(0.000)	75	94928			30.00- 60.00	49.72
9.194	9.180	(0.000)	96	13545			5.00- 9.00	7.09
9.194	9.180	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
9.194	9.180	(0.000)	174	162624			50.00- 0.00	85.18
9.194	9.180	(0.000)	175	14603			5.00- 9.00	8.98
9.194	9.180	(0.000)	176	161216			95.00- 101.00	99.13
9.194	9.180	(0.000)	177	11190			5.00- 9.00	6.94

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.24
75	30.00 - 60.00% of mass 95	49.72
96	5.00 - 9.00% of mass 95	7.09
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	85.18
175	5.00 - 9.00% of mass 174	7.65 (8.98)
176	95.00 - 101.00% of mass 174	84.45 (99.13)
177	5.00 - 9.00% of mass 176	5.86 (6.94)

Data File: U022701.D
Spectrum: Scan 2293 (9.19), Background Scan 2285
Location of Maximum: 95.00
Number of points: 164

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.30	13	80.90	4811	136.90	304	211.10	135
36.00	2010	82.00	954	139.10	105	212.40	130
37.00	10119	84.10	19	140.00	152	216.40	93
38.00	8850	85.10	124	140.90	1827	217.80	4
39.10	3480	87.00	7545	142.00	156	218.90	56
40.00	32	88.00	7030	142.90	1989	220.30	170
41.10	19	90.00	114	143.90	109	223.90	3
42.00	71	91.00	365	144.80	108	226.30	92
44.00	1064	92.00	5430	145.90	188	227.10	72
45.00	1555	93.00	7747	147.20	315	233.80	70
47.00	2282	94.10	24208	147.90	321	237.60	12
48.00	1092	95.00	190912	148.90	30	238.10	61
49.00	8137	96.00	13545	150.00	221	239.20	59
50.00	36728	97.00	232	152.10	84	241.20	10
51.00	11565	100.30	101	153.00	205	246.00	71
52.10	502	101.60	55	153.90	129	247.30	61
53.10	43	102.10	1	154.90	500	252.00	72
54.10	145	103.00	52	156.20	71	254.00	60
55.00	111	103.90	717	156.90	316	255.20	62
56.00	2902	105.00	280	158.20	38	259.20	84
57.10	5147	105.90	560	158.80	298	262.80	53
58.00	99	106.90	130	160.80	276	269.00	26
59.00	74	108.00	30	162.10	198	271.30	59
60.00	2133	109.10	77	169.50	178	276.60	43
61.00	8702	109.90	220	170.10	96	277.10	89
62.00	9010	111.00	91	171.10	109	279.20	54
63.00	6384	114.90	171	173.90	162624	279.70	17
64.00	644	115.80	529	175.00	14603	283.40	51
65.00	76	117.00	1056	175.90	161216	287.00	86
66.20	122	118.00	499	176.90	11190	299.30	59
67.00	420	119.00	552	178.00	184	300.30	88
68.00	19376	120.10	145	186.50	152	309.40	158
69.00	19912	121.30	122	189.10	15	320.90	53
70.00	1509	125.10	56	190.40	83	322.40	60
72.00	1242	126.10	56	191.10	61	334.60	58
73.00	8533	127.80	536	196.00	22	336.50	59
74.00	31752	129.00	413	197.00	4	343.20	98
75.00	94928	129.80	469	197.90	83	349.30	58
76.00	9025	130.90	238	201.00	29		
77.00	1082	131.80	35	207.00	110		
78.90	5292	135.00	382	208.30	60		
80.10	1612	135.90	41	210.10	15		

Data File: \\NAHSTWS005\Target\chem\voa9.i\u240227.b\u022701.d Page 1

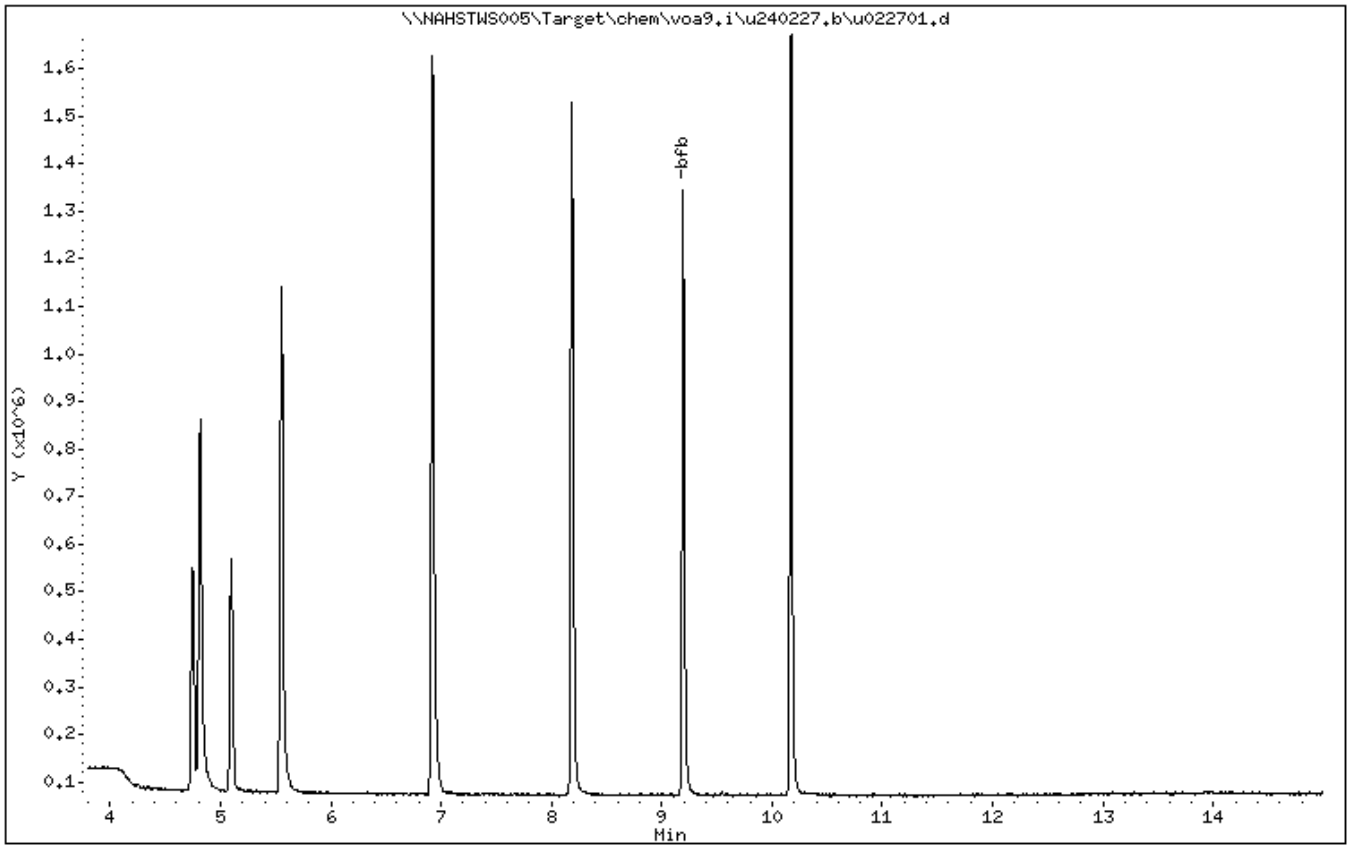
Date : 27-FEB-2024 09:50

Client ID: BFB Instrument: VOA9.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: FT

Column phase: DB624 Column diameter: 0.25



Data File : \\nahstws005\target\chem\voa9.i\u240227.b\u022701.d
Inj Date : 27-FEB-2024 09:50
InstruID : VOA9.i
LabSampID : BFB

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240227.b\U022702.D Page 1
Report Date: 04-Mar-2024 16:05

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240227.b\U022702.D
Lab Smp Id: VSTD00.25 Client Smp ID: VSTD00.25
Inj Date : 27-FEB-2024 10:12
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD00.25;VSTD00.25;1;1;;
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa9.i\U240227.b\8260C.m
Meth Date : 04-Mar-2024 16:05 VOA9.i Quant Type: ISTD
Cal Date : 27-FEB-2024 11:19 Cal File: U022705.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 08260V9.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Pentafluorobenzene	168	4.815	4.815	(1.000)	530106	50.0000	
	2 Dichlorodifluoromethane	85	1.164	1.164	(0.242)	907	0.25000	0.17
	3 Chloromethane	50	1.299	1.299	(0.270)	1915	0.25000	0.30
	5 Vinyl Chloride	62	1.378	1.378	(0.286)	1055	0.25000	0.17
	6 Bromomethane	94	1.625	1.625	(0.338)	1245	0.25000	
	8 Trichlorofluoromethane	101	1.903	1.903	(0.395)	1366	0.25000	0.18
	10 Acetone	43	1.959	1.959	(0.407)	9777	0.50000	3.03
	11 1,1-Dichloroethene	96	2.337	2.337	(0.485)	1634	0.25000	0.36
	15 Iodomethane	142	2.472	2.472	(0.513)	704	0.50000	6.08(T)
	16 Acrylonitrile	53	3.061	3.061	(0.636)	2641	0.50000	2.08
	17 Methylene Chloride	84	2.795	2.795	(0.580)	4504	0.25000	1.73
	18 Methyl tert-butyl ether	73	3.080	3.080	(0.640)	5665	0.25000	0.37
	19 Carbon Disulfide	76	2.521	2.521	(0.524)	5802	0.50000	0.63
	20 trans-1,2-Dichloroethene	96	3.068	3.068	(0.637)	4169	0.25000	0.80
	22 1,1-Dichloroethane	63	3.511	3.511	(0.729)	1703	0.25000	0.20
	26 2,2-Dichloropropane	77	4.186	4.186	(0.869)	1876	0.25000	0.24
	27 cis-1,2-Dichloroethene	96	4.204	4.204	(0.873)	1336	0.25000	0.25
	28 Chloroform	83	4.568	4.568	(0.949)	1554	0.25000	0.17
	29 Bromochloromethane	128	4.470	4.470	(0.928)	619	0.25000	0.22
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	2958	0.25000	0.93

31 1,1,1-Trichloroethane	97	4.748	4.748 (0.986)	1975	0.25000	0.25
32 1,1-Dichloropropene	75	4.928	4.928 (0.887)	1756	0.25000	0.27

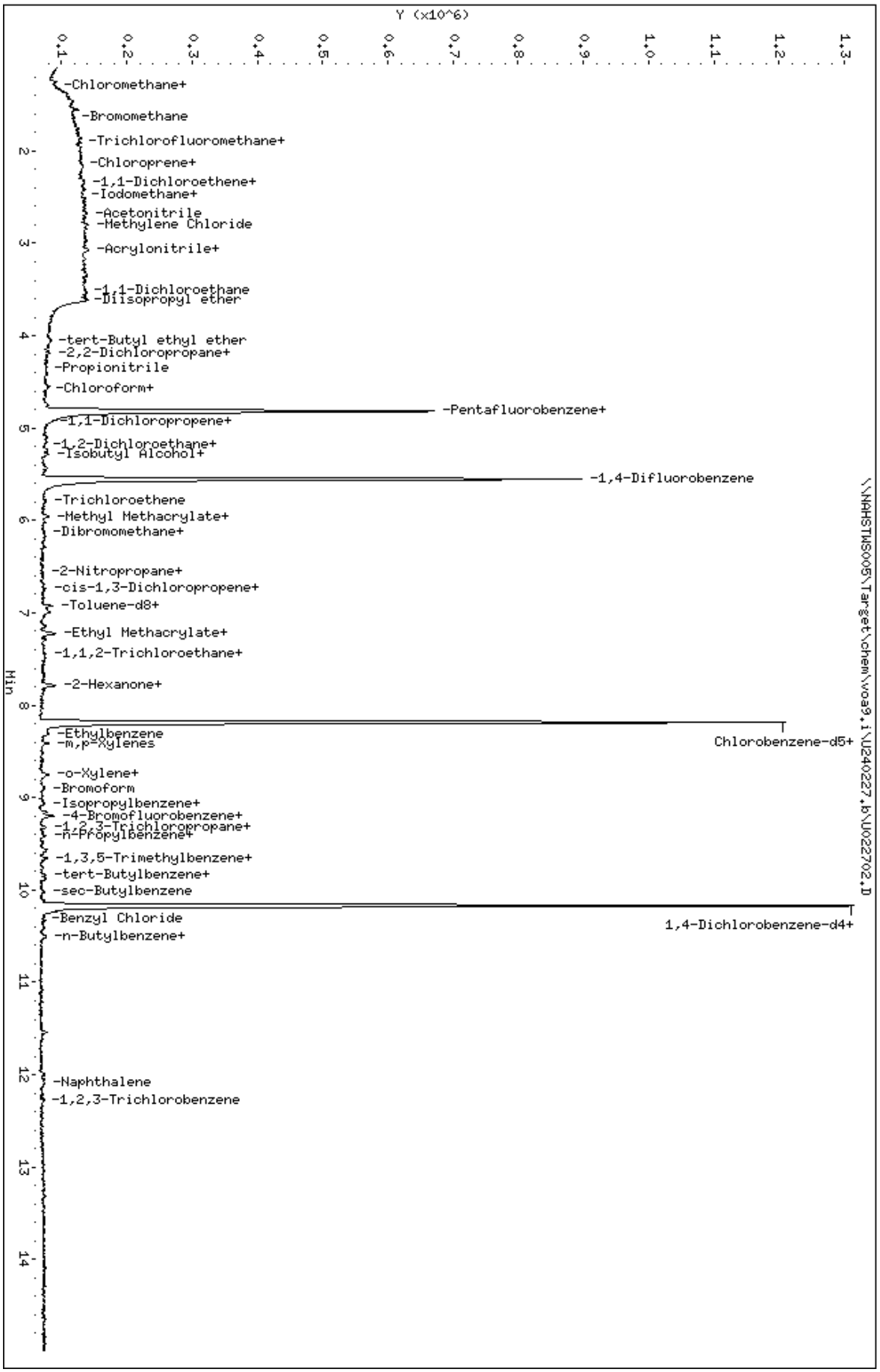
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Report Date: 04-Mar-2024 16:05

			QUANT SIG					AMOUNTS CAL-AMT	AMOUNTS ON-COL
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
	33	1,2-Dichloroethane	62	5.179	5.179	(0.933)	1913	0.25000	0.26
	34	Carbon Tetrachloride	117	4.909	4.909	(0.884)	3087	0.25000	2.19
$	35	1,2-Dichloroethane-d4	65	5.100	5.100	(1.059)	3946	0.25000	1.09
*	36	1,4-Difluorobenzene	114	5.554	5.554	(1.000)	763907	50.0000	
	37	Benzene	78	5.145	5.145	(0.926)	4703	0.25000	0.24
	38	Trichloroethene	130	5.790	5.790	(1.043)	1905	0.25000	0.34
	42	1,2-Dichloropropane	63	6.000	6.000	(1.080)	955	0.25000	0.18
	44	Dibromomethane	93	6.127	6.127	(1.103)	1018	0.25000	0.32
	45	4-Methyl-2-Pentanone	43	6.562	6.562	(0.802)	7142	0.50000	1.34
	46	cis-1,3-Dichloropropene	75	6.697	6.697	(1.206)	1162	0.25000	0.14
*	47	Chlorobenzene-d5	117	8.185	8.185	(1.000)	690388	50.0000	
$	48	Toluene-d8	98	6.922	6.922	(0.846)	12592	0.25000	0.63
	50	Toluene	91	6.982	6.982	(0.853)	6042	0.25000	0.28
	51	trans-1,3-Dichloropropene	75	7.199	7.199	(1.296)	1316	0.25000	0.19
	52	2-Hexanone	43	7.717	7.717	(0.943)	8710	0.50000	2.09
	53	1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	1367	0.25000	0.34
	54	1,3-Dichloropropane	76	7.503	7.503	(0.917)	1894	0.25000	0.22
	55	Dibromochloromethane	129	7.694	7.694	(0.940)	1399	0.25000	0.24
	56	Tetrachloroethene	164	7.458	7.458	(0.911)	817	0.25000	0.18
	57	1,2-Dibromoethane	107	7.792	7.792	(0.952)	838	0.25000	0.17
	58	1-Chlorohexane	55	8.185	8.185	(1.474)	12126	0.25000	3.00
	59	Chlorobenzene	112	8.212	8.212	(1.003)	3202	0.25000	0.22
	60	1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	1641	0.25000	0.31
	61	Ethylbenzene	106	8.309	8.309	(1.015)	2063	0.25000	0.28
	62	m,p-Xylenes	106	8.414	8.414	(1.028)	3893	0.50000	0.43
	63	o-Xylene	106	8.748	8.748	(1.069)	1941	0.25000	0.21
	64	Styrene	104	8.774	8.774	(1.072)	3475	0.25000	0.22
	66	Bromoform	173	8.920	8.920	(1.090)	747	0.25000	0.16(T)
	67	Isopropylbenzene	105	9.066	9.066	(1.108)	4693	0.25000	0.20
$	69	4-Bromofluorobenzene	95	9.198	9.198	(1.124)	5988	0.25000	0.85
*	70	1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	355856	50.0000	
	71	1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	1819	0.25000	0.26
	73	n-Propylbenzene	91	9.419	9.419	(0.926)	5409	0.25000	0.22
	74	Bromobenzene	156	9.325	9.325	(0.917)	1655	0.25000	0.26
	75	1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	5040	0.25000	0.26
	76	2-Chlorotoluene	91	9.486	9.486	(0.933)	4224	0.25000	0.27
	77	4-Chlorotoluene	91	9.584	9.584	(0.942)	5159	0.25000	0.29
	78	tert-Butylbenzene	119	9.839	9.839	(0.967)	2853	0.25000	0.18
	79	1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	3172	0.25000	0.17
	81	sec-Butylbenzene	105	10.022	10.022	(0.985)	4811	0.25000	0.23
	82	p-Isopropyltoluene	119	10.146	10.146	(0.997)	4689	0.25000	0.24
	83	1,3-Dichlorobenzene	146	10.120	10.120	(0.995)	2629	0.25000	0.24
	84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	2742	0.25000	0.24
	87	n-Butylbenzene	91	10.498	10.498	(1.032)	3403	0.25000	0.21
	88	1,2-Dichlorobenzene	146	10.510	10.510	(1.033)	2807	0.25000	0.26
	92	Naphthalene	128	12.099	12.099	(1.189)	3783	0.25000	0.21
	93	1,2,3-Trichlorobenzene	180	12.279	12.279	(1.207)	1860	0.25000	0.27
M	94	1,2-Dichloroethylene (total)	96				5505	0.50000	
M	95	Xylenes (total)	106				5834	0.75000	
	135	1,4-Dioxane	88	6.169	6.169	(1.281)	96	5.00000	(M)
	141	Cyclohexane	56	4.815	4.815	(1.000)	11268	0.25000	2.48
	138	Freon TF	101	2.334	2.334	(0.485)	963	0.25000	0.23

147 Methylcyclohexane	55	5.959	5.959 (1.073)	6346	0.25000	1.60
162 Butyl acrylate	55	8.748	8.748 (1.069)	4296	0.25000	0.36(a)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



Data File: \\NAHSTMS005\Target\chem\voa9.i\U240227.b\U022702.D
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Column phase: DB624

Instrument: VOA9.i
Operator: FT
Column diameter: 0.18

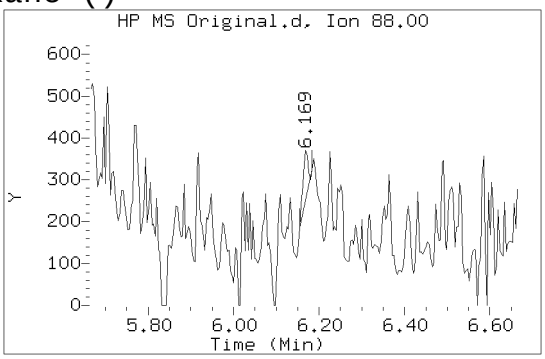
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InstruID : VOA9.i
LabSampID : VSTD00.25

1,4-Dioxane ()

Reason Code:

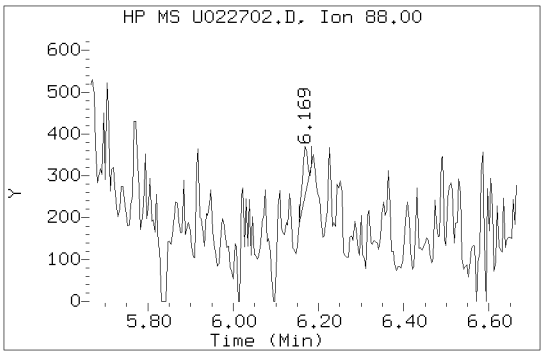
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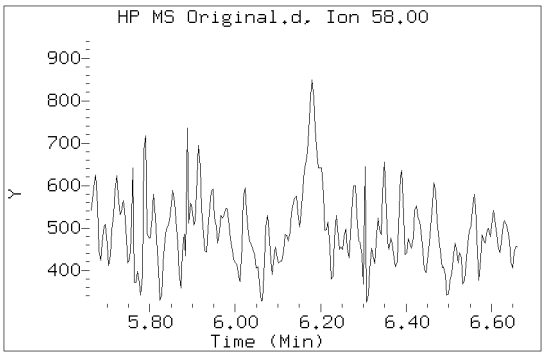
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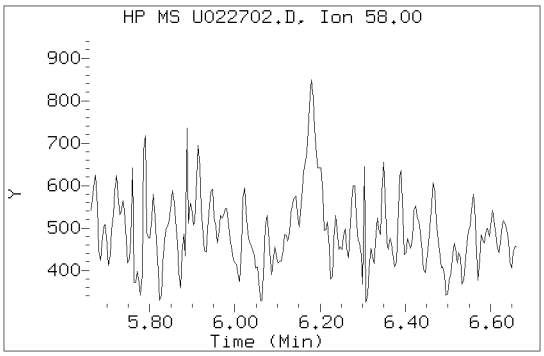
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AFTER

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Data File: \\NAHSTWS005\Target\chem\voa9.i\U240227.b\U022703.D Page 1
Report Date: 04-Mar-2024 16:05

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240227.b\U022703.D
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Inj Date : 27-FEB-2024 10:34
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD00.5;VSTD00.5;1;2;;
Misc Info : V9;WATER;0;1;
Comment   :
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Meth Date : 04-Mar-2024 16:05 VOA9.i Quant Type: ISTD
Cal Date : 27-FEB-2024 10:12 Cal File: U022702.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 08260V9.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.819	4.819	(1.000)	507233	50.0000	
2	Dichlorodifluoromethane	85	1.168	1.168	(0.242)	2346	0.50000	0.48(M)
3	Chloromethane	50	1.303	1.303	(0.270)	3705	0.50000	0.61
5	Vinyl Chloride	62	1.382	1.382	(0.287)	2807	0.50000	0.49
6	Bromomethane	94	1.625	1.625	(0.337)	2539	0.50000	
7	Chloroethane	64	1.704	1.704	(0.354)	2028	0.50000	0.51
8	Trichlorofluoromethane	101	1.903	1.903	(0.395)	3211	0.50000	0.45
10	Acetone	43	1.970	1.970	(0.409)	3381	1.00000	1.09(M)
11	1,1-Dichloroethene	96	2.337	2.337	(0.485)	2806	0.50000	0.65
15	Iodomethane	142	2.476	2.476	(0.514)	1234	1.00000	6.18(T)
16	Acrylonitrile	53	3.072	3.072	(0.638)	2881	1.00000	2.26
17	Methylene Chloride	84	2.799	2.799	(0.581)	5670	0.50000	2.00
18	Methyl tert-butyl ether	73	3.083	3.083	(0.640)	7100	0.50000	0.49
19	Carbon Disulfide	76	2.525	2.525	(0.524)	8573	1.00000	0.98
20	trans-1,2-Dichloroethene	96	3.072	3.072	(0.638)	3362	0.50000	0.67(M)
21	Vinyl Acetate	43	3.619	3.619	(0.751)	13939	1.00000	1.15
22	1,1-Dichloroethane	63	3.518	3.518	(0.730)	3670	0.50000	0.46
24	2-Butanone	43	4.287	4.287	(0.890)	1674	1.00000	0.81(M)
26	2,2-Dichloropropane	77	4.197	4.197	(0.871)	3054	0.50000	0.42
27	cis-1,2-Dichloroethene	96	4.201	4.201	(0.872)	2570	0.50000	0.50

28 Chloroform	83	4.575	4.575 (0.949)	4285	0.50000	0.50
29 Bromochloromethane	128	4.474	4.474 (0.928)	1070	0.50000	0.41

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240227.b\U022703.D Page 2
Report Date: 04-Mar-2024 16:05

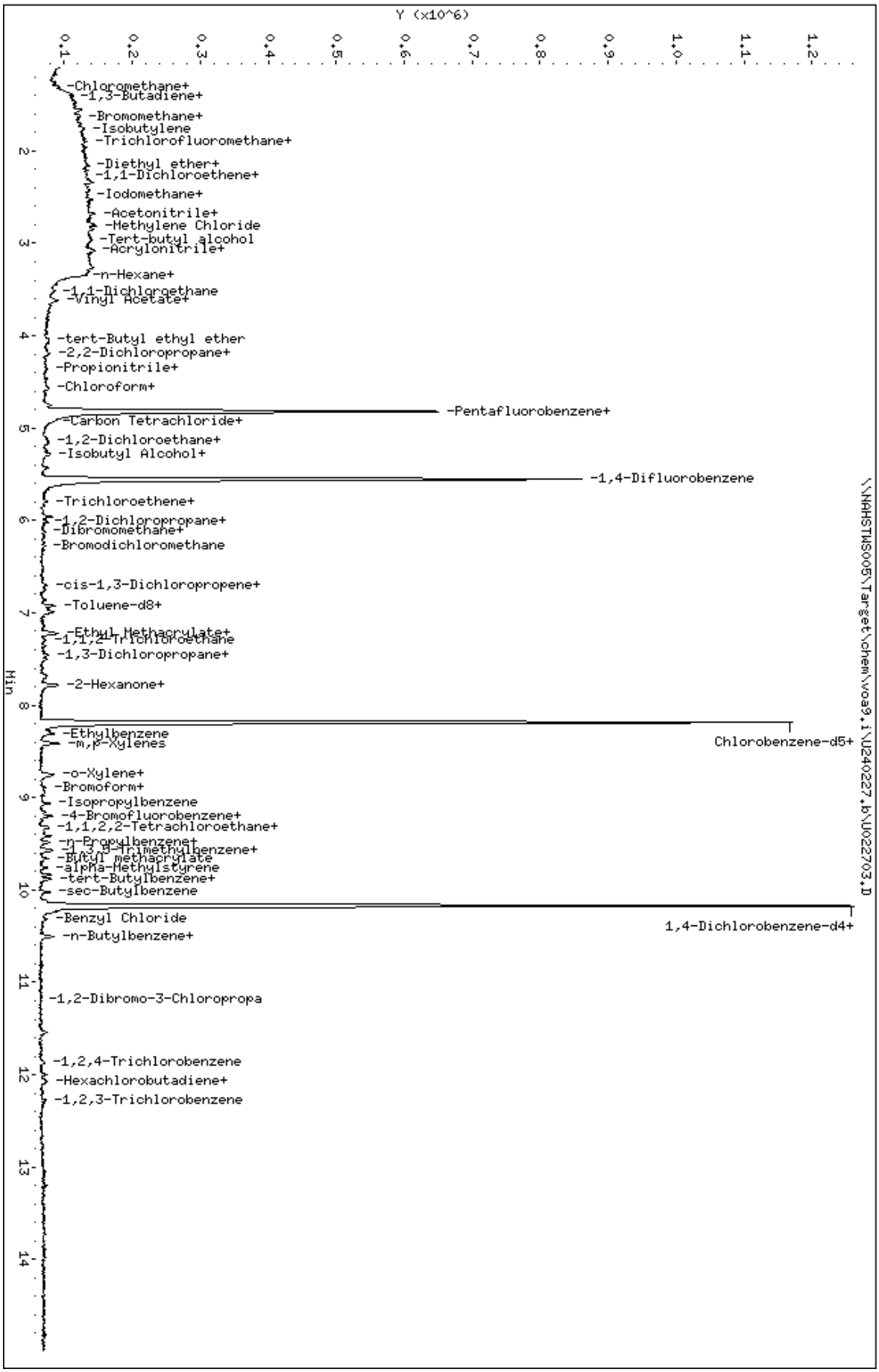
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
$	30 Dibromofluoromethane	113	4.748	4.748	(0.985)	4195	0.50000	1.20
	31 1,1,1-Trichloroethane	97	4.752	4.752	(0.986)	3423	0.50000	0.45
	32 1,1-Dichloropropene	75	4.928	4.928	(0.887)	3119	0.50000	0.50(M)
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	3893	0.50000	0.56
	34 Carbon Tetrachloride	117	4.917	4.917	(0.885)	5399	0.50000	2.54
$	35 1,2-Dichloroethane-d4	65	5.104	5.104	(1.059)	5358	0.50000	1.36
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	725883	50.0000	
	37 Benzene	78	5.141	5.141	(0.926)	8731	0.50000	0.48
	38 Trichloroethene	130	5.797	5.797	(1.044)	2509	0.50000	0.47
	39 Bromodichloromethane	83	6.281	6.281	(1.131)	4069	0.50000	0.59(M)
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	2684	0.50000	0.55
	44 Dibromomethane	93	6.120	6.120	(1.102)	1034	0.50000	0.34
	45 4-Methyl-2-Pentanone	43	6.862	6.862	(0.838)	4420	1.00000	0.88(M)
	46 cis-1,3-Dichloropropene	75	6.693	6.693	(1.205)	3082	0.50000	0.41
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	651004	50.0000	
$	48 Toluene-d8	98	6.926	6.926	(0.846)	15253	0.50000	0.81
	50 Toluene	91	6.986	6.986	(0.853)	11346	0.50000	0.56
	51 trans-1,3-Dichloropropene	75	7.203	7.203	(1.297)	2710	0.50000	0.42
	52 2-Hexanone	43	7.721	7.721	(0.943)	2984	1.00000	0.76
	53 1,1,2-Trichloroethane	83	7.364	7.364	(0.900)	1766	0.50000	0.47(M)
	54 1,3-Dichloropropane	76	7.503	7.503	(0.917)	4782	0.50000	0.60
	55 Dibromochloromethane	129	7.694	7.694	(0.940)	2774	0.50000	0.51
	56 Tetrachloroethene	164	7.462	7.462	(0.912)	1988	0.50000	0.46
	57 1,2-Dibromoethane	107	7.792	7.792	(0.952)	2289	0.50000	0.50
	58 1-Chlorohexane	55	8.185	8.185	(1.474)	9426	0.50000	2.54(M)
	59 Chlorobenzene	112	8.212	8.212	(1.003)	7020	0.50000	0.52
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	1931	0.50000	0.39
	61 Ethylbenzene	106	8.309	8.309	(1.015)	3285	0.50000	0.48
	62 m,p-Xylenes	106	8.414	8.414	(1.028)	8439	1.00000	0.98
	63 o-Xylene	106	8.748	8.748	(1.069)	3853	0.50000	0.46
	64 Styrene	104	8.770	8.770	(1.071)	7424	0.50000	0.50
	66 Bromoform	173	8.920	8.920	(1.090)	2210	0.50000	0.51(T)
	67 Isopropylbenzene	105	9.063	9.063	(1.107)	11092	0.50000	0.51
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	3000	0.50000	0.48
$	69 4-Bromofluorobenzene	95	9.198	9.198	(1.124)	5805	0.50000	0.87
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	336540	50.0000	
	71 1,2,3-Trichloropropane	75	9.366	9.366	(0.921)	3056	0.50000	0.46
	73 n-Propylbenzene	91	9.415	9.415	(0.926)	11906	0.50000	0.52
	74 Bromobenzene	156	9.317	9.317	(0.916)	2838	0.50000	0.48
	75 1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	9911	0.50000	0.55
	76 2-Chlorotoluene	91	9.486	9.486	(0.933)	8177	0.50000	0.56
	77 4-Chlorotoluene	91	9.580	9.580	(0.942)	9510	0.50000	0.56
	78 tert-Butylbenzene	119	9.835	9.835	(0.967)	7573	0.50000	0.51
	79 1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	9519	0.50000	0.54
	81 sec-Butylbenzene	105	10.022	10.022	(0.985)	9923	0.50000	0.51
	82 p-Isopropyltoluene	119	10.146	10.146	(0.997)	9158	0.50000	0.51
	83 1,3-Dichlorobenzene	146	10.120	10.120	(0.995)	4881	0.50000	0.48
	84 1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	4869	0.50000	0.46
	87 n-Butylbenzene	91	10.495	10.495	(1.032)	6439	0.50000	0.43
	88 1,2-Dichlorobenzene	146	10.510	10.510	(1.033)	4789	0.50000	0.47
	89 1,2-Dibromo-3-Chloropropane	155	11.188	11.188	(1.100)	639	0.50000	0.55(M)
	90 1,2,4-Trichlorobenzene	180	11.870	11.870	(1.167)	2922	0.50000	0.42

91 Hexachlorobutadiene	225	12.002	12.002 (1.180)	1805	0.50000	0.58
92 Naphthalene	128	12.080	12.080 (1.188)	7015	0.50000	0.41

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
	93 1,2,3-Trichlorobenzene	180	12.275	12.275	(1.207)	2355	0.50000	0.36
M	94 1,2-Dichloroethylene (total)	96				5932	1.00000	
M	95 Xylenes (total)	106				12292	1.50000	
	135 1,4-Dioxane	88	6.172	6.172	(1.281)	1064	10.0000	11.72
	141 Cyclohexane	56	4.815	4.815	(0.999)	11783	0.50000	2.62(M)
	138 Freon TF	101	2.341	2.341	(0.486)	1632	0.50000	0.42
	140 1,3-Butadiene	54	1.411	1.411	(0.293)	1979	0.50000	2.31
	147 Methylcyclohexane	55	5.955	5.955	(1.072)	10171	0.50000	1.91
	146 Methyl Acetate	43	2.716	2.716	(0.564)	3605	0.50000	0.57(M)
	162 Butyl acrylate	55	8.744	8.744	(1.068)	6508	0.50000	0.58(a)
	203 2-Ethylhexyl Acrylate	55	12.047	12.047	(1.184)	4022	0.50000	0.54(aM)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240227.b\U022703.D
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Client ID: VSTD00.5
Sample Info: VSTD00.5;VSTD00.5;1;2;;
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: FT
Column diameter: 0.18

\\NAHSTWS005\Target\chem\voa9.i\U240227.b\U022703.D

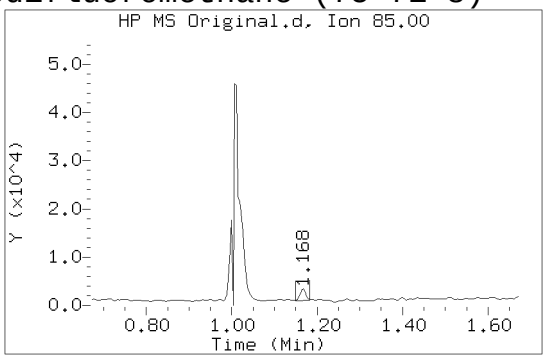
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240227.b\U022703.D
Inj Date : 27-FEB-2024 10:34
InstruID : VOA9.i
LabSampID : VSTD00.5

Dichlorodifluoromethane (75-71-8)

Reason Code:

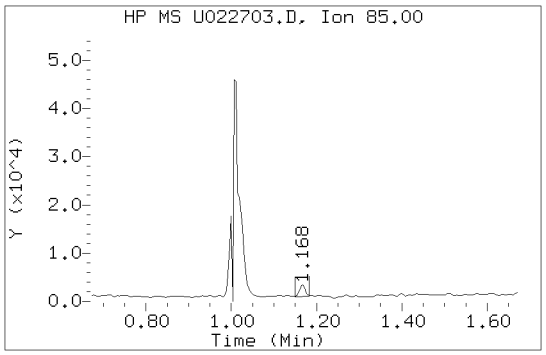
BEFORE

MASS
62
AREA
2807
HEIGHT
2385
27-Feb-2024
14:12
firat
tastan



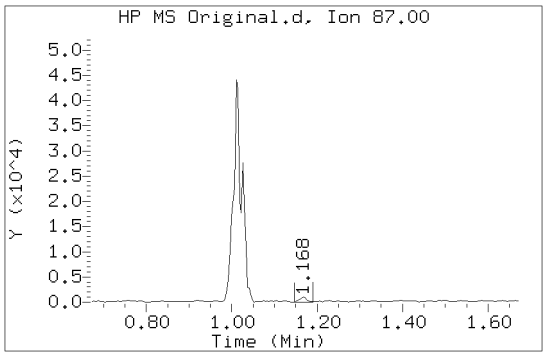
AFTER

MASS
85
AREA
2346
HEIGHT
2456
04-Mar-2024
16:04
firat
tas



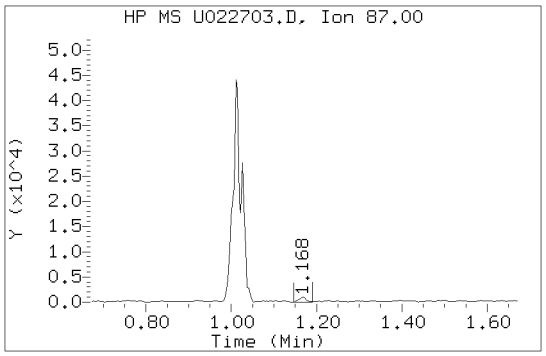
BEFORE

MASS
64
AREA
33963
HEIGHT
4176
27-Feb-2024
14:12
firat
tastan



AFTER

MASS
87
AREA
1264
HEIGHT
1027
04-Mar-2024
16:04
firat
tas

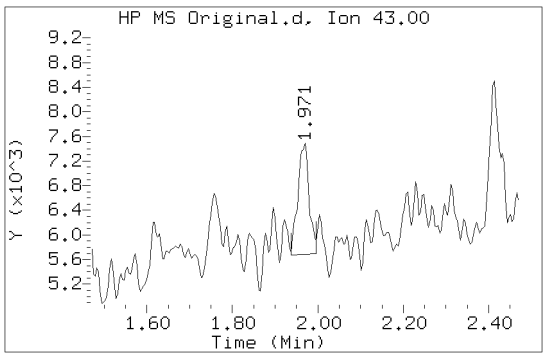


Acetone (67-64-1)

Reason Code:

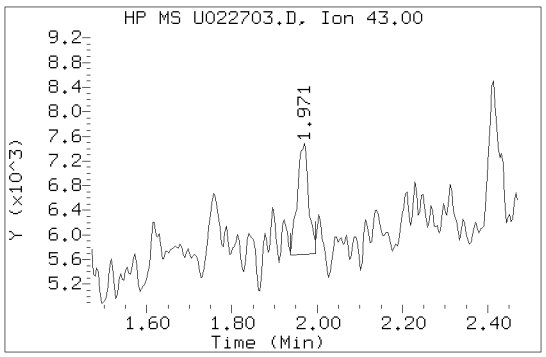
BEFORE

MASS
53
AREA
2881
HEIGHT
1097
27-Feb-2024
14:12
firat
tastan



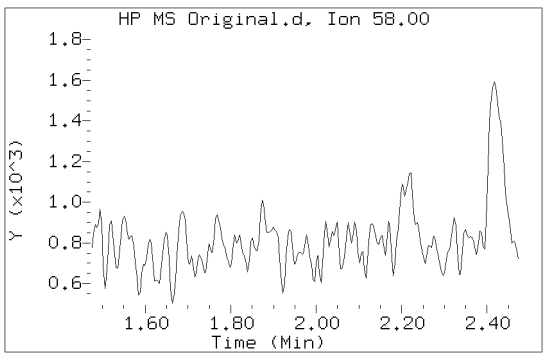
AFTER

MASS
43
AREA
3381
HEIGHT
1806
04-Mar-2024
16:04
firat
tas



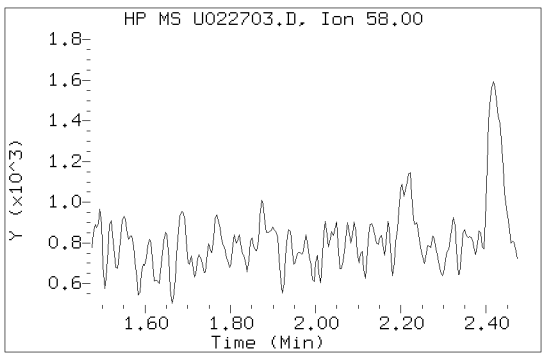
BEFORE

MASS
52
AREA
1984
HEIGHT
840
27-Feb-2024
14:12
firat
tastan



AFTER

MASS
58
AREA
0
HEIGHT
0
04-Mar-2024
16:04
firat
tas



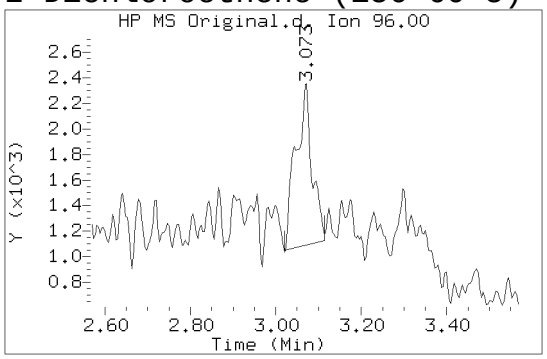
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240227.b\U022703.D
Inj Date : 27-FEB-2024 10:34
InstruID : VOA9.i
LabSampID : VSTD00.5

trans-1,2-Dichloroethene (156-60-5)

Reason Code:

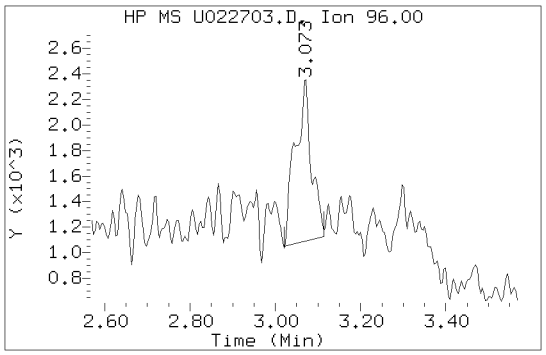
BEFORE

MASS
77
AREA
3054
HEIGHT
1139
27-Feb-2024
14:12
firat
tastan



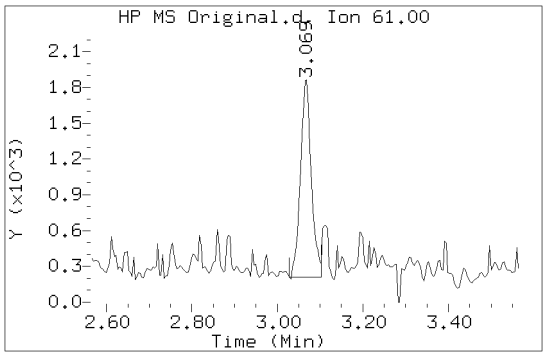
AFTER

MASS
96
AREA
3362
HEIGHT
1260
04-Mar-2024
16:04
firat
tas



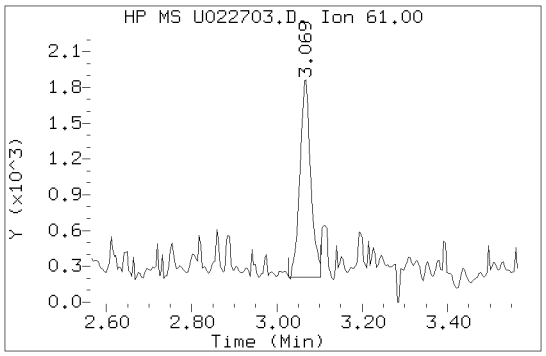
BEFORE

MASS
97
AREA
1232
HEIGHT
488
27-Feb-2024
14:12
firat
tastan



AFTER

MASS
61
AREA
2990
HEIGHT
1653
04-Mar-2024
16:04
firat
tas

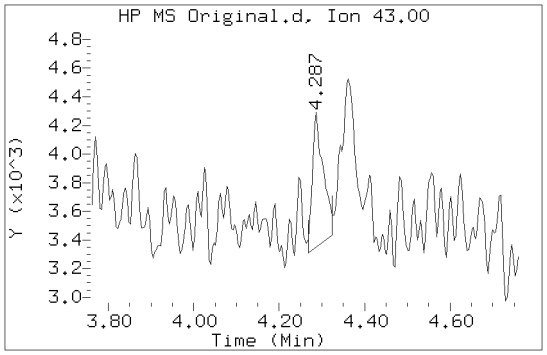


2-Butanone (78-93-3)

Reason Code:

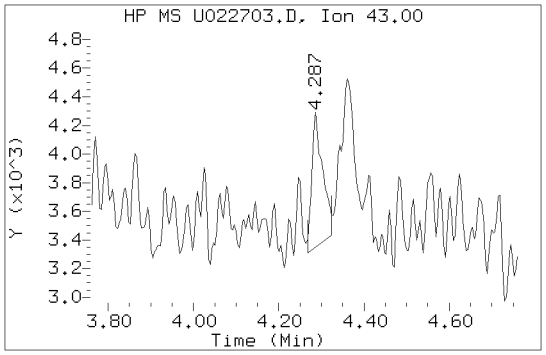
BEFORE

MASS
128
AREA
1070
HEIGHT
660
27-Feb-2024
14:12
firat
tastan



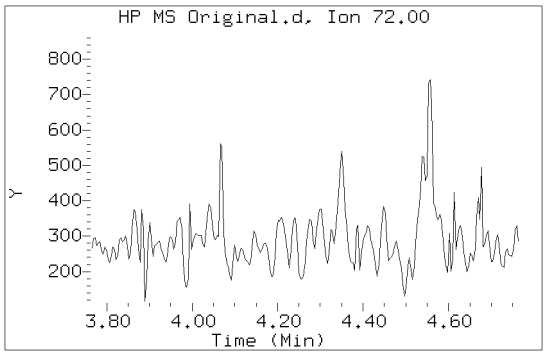
AFTER

MASS
43
AREA
1674
HEIGHT
938
04-Mar-2024
16:04
firat
tas



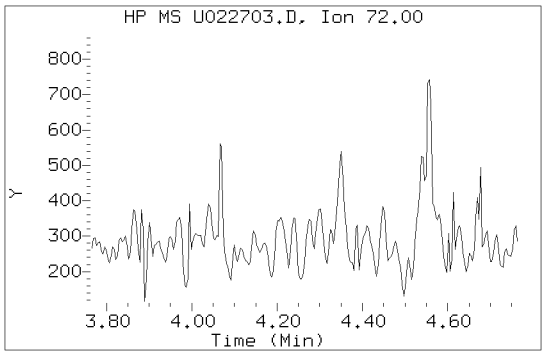
BEFORE

MASS
49
AREA
2022
HEIGHT
984
27-Feb-2024
14:12
firat
tastan



AFTER

MASS
72
AREA
0
HEIGHT
0
04-Mar-2024
16:04
firat
tas



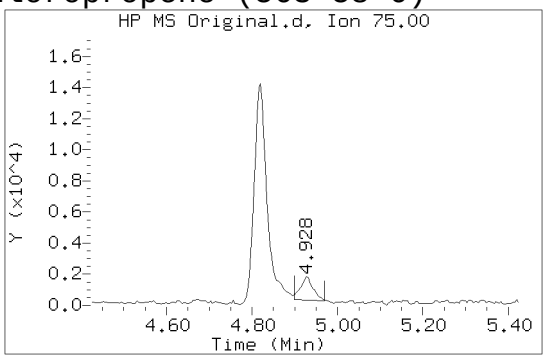
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240227.b\U022703.D
Inj Date : 27-FEB-2024 10:34
InstruID : VOA9.i
LabSampID : VSTD00.5

1,1-Dichloropropene (563-58-6)

Reason Code:

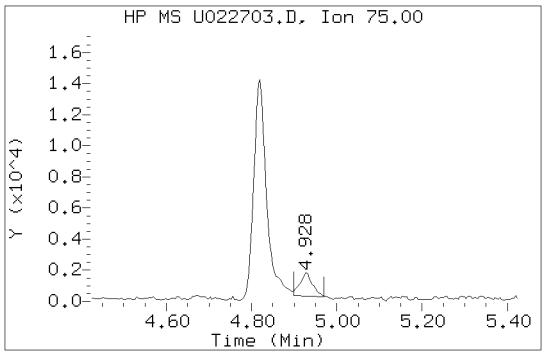
BEFORE

MASS
78
AREA
8731
HEIGHT
4238
27-Feb-2024
14:12
firat
tastan



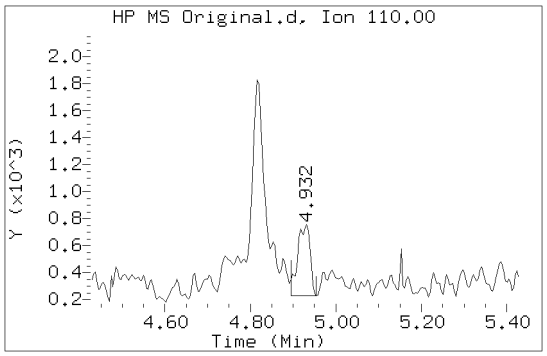
AFTER

MASS
75
AREA
3119
HEIGHT
1511
04-Mar-2024
16:04
firat
tas



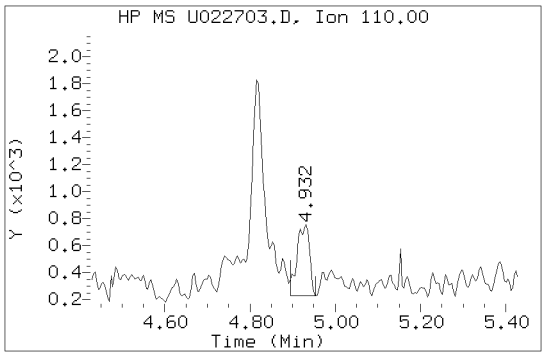
BEFORE

MASS
77
AREA
1931
HEIGHT
869
27-Feb-2024
14:12
firat
tastan



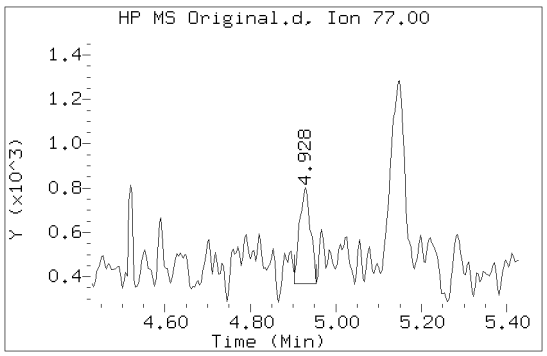
AFTER

MASS
110
AREA
1104
HEIGHT
530
04-Mar-2024
16:04
firat
tas



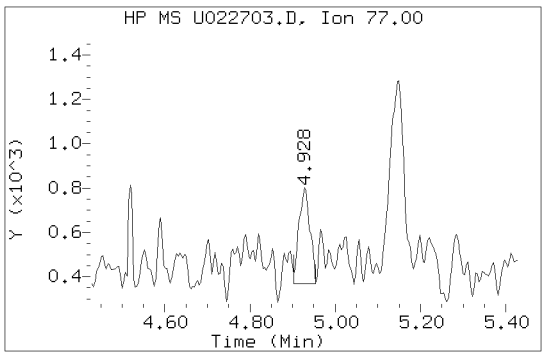
BEFORE

MASS
51
AREA
2676
HEIGHT
756
27-Feb-2024
14:12
firat
tastan



AFTER

MASS
77
AREA
786
HEIGHT
432
04-Mar-2024
16:04
firat
tas

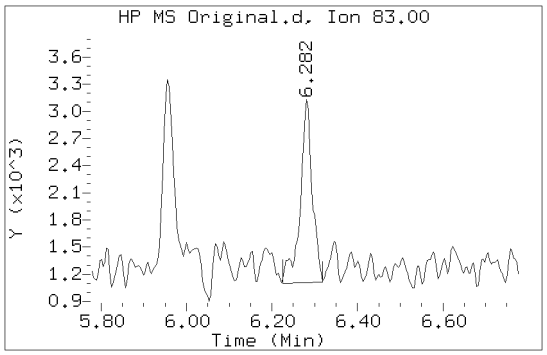


Bromodichloromethane (75-27-4)

Reason Code:

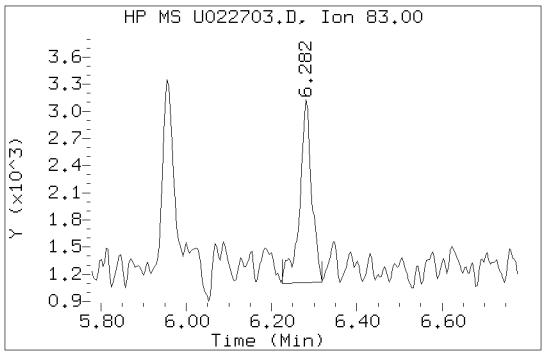
BEFORE

MASS
75
AREA
3082
HEIGHT
1647
27-Feb-2024
14:12
firat
tastan



AFTER

MASS
83
AREA
4069
HEIGHT
2024
04-Mar-2024
16:04
firat
tas

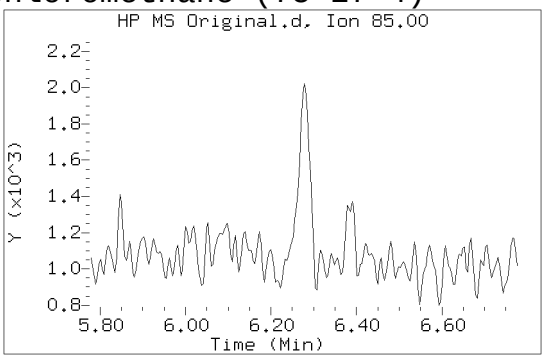


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240227.b\U022703.D
Inj Date : 27-FEB-2024 10:34
InstruID : VOA9.i
LabSampID : VSTD00.5

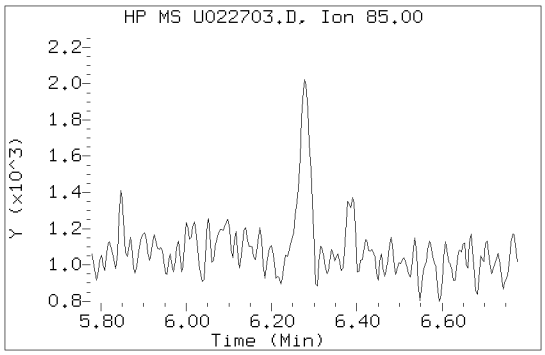
Bromodichloromethane (75-27-4)

Reason Code:

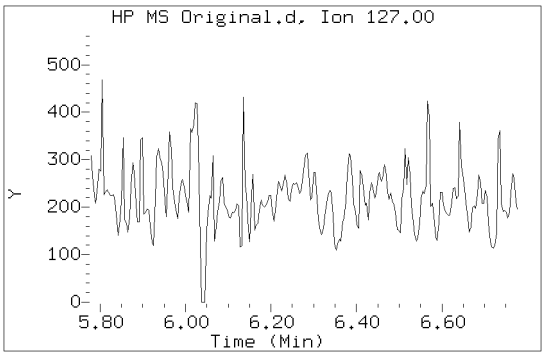
BEFORE
MASS
77
AREA
1293
HEIGHT
667
27-Feb-2024
14:12
firat
tastan



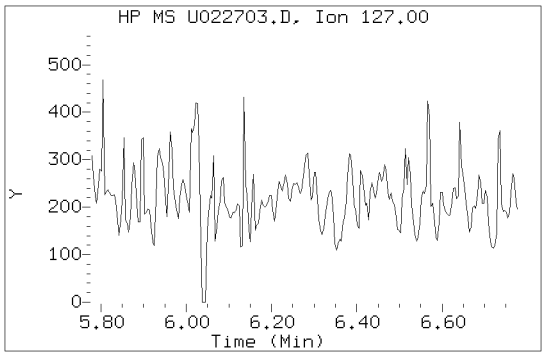
AFTER
MASS
85
AREA
0
HEIGHT
0
04-Mar-2024
16:04
firat
tas



BEFORE
MASS
39
AREA
3511
HEIGHT
1265
27-Feb-2024
14:12
firat
tastan



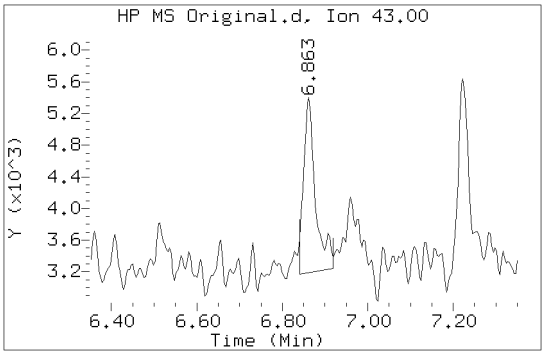
AFTER
MASS
127
AREA
0
HEIGHT
0
04-Mar-2024
16:04
firat
tas



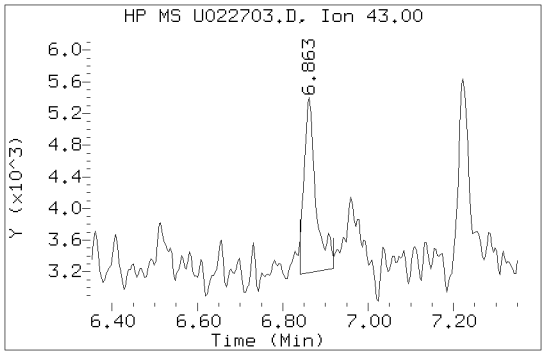
4-Methyl-2-Pentanone (108-10-1)

Reason Code:

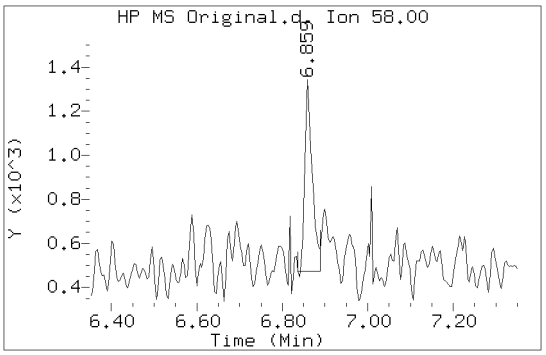
BEFORE
MASS
43
AREA
2984
HEIGHT
1464
27-Feb-2024
14:12
firat
tastan



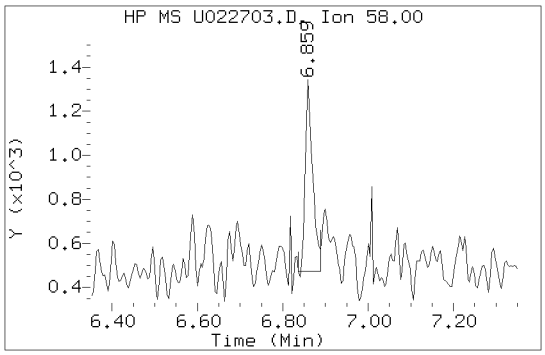
AFTER
MASS
43
AREA
4420
HEIGHT
2214
04-Mar-2024
16:04
firat
tas



BEFORE
MASS
58
AREA
1753
HEIGHT
767
27-Feb-2024
14:12
firat
tastan



AFTER
MASS
58
AREA
1082
HEIGHT
870
04-Mar-2024
16:04
firat
tas



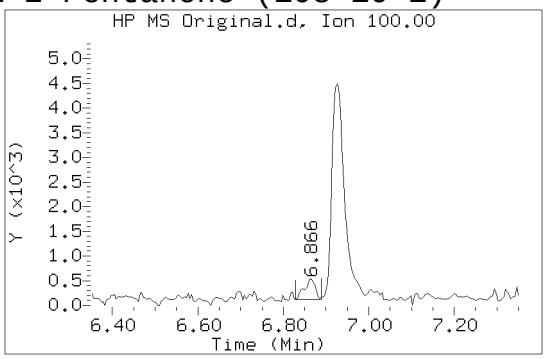
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240227.b\U022703.D
Inj Date : 27-FEB-2024 10:34
InstruID : VOA9.i
LabSampID : VSTD00.5

4-Methyl-2-Pentanone (108-10-1)

Reason Code:

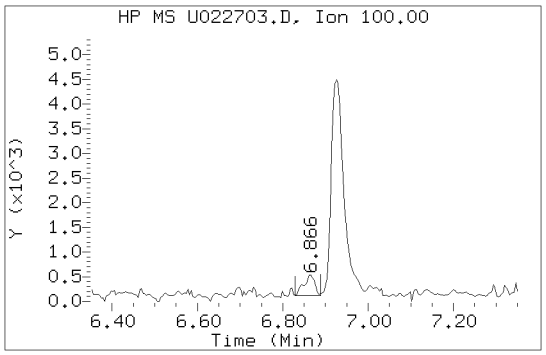
BEFORE

MASS
57
AREA
12757
HEIGHT
4109
27-Feb-2024
14:12
firat
tastan



AFTER

MASS
100
AREA
780
HEIGHT
421
04-Mar-2024
16:04
firat
tas

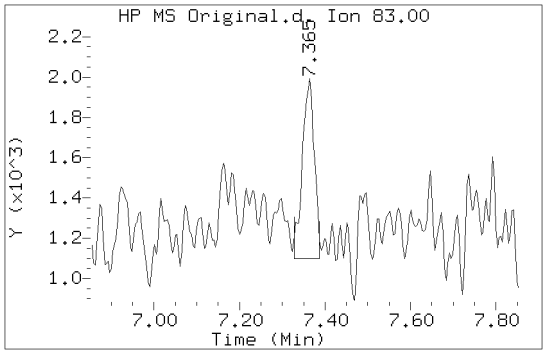


1,1,2-Trichloroethane (79-00-5)

Reason Code:

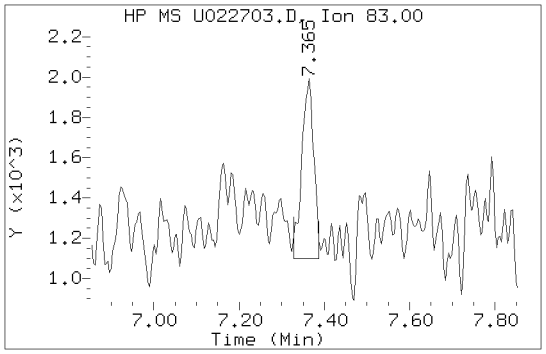
BEFORE

MASS
107
AREA
2289
HEIGHT
1200
27-Feb-2024
14:12
firat
tastan



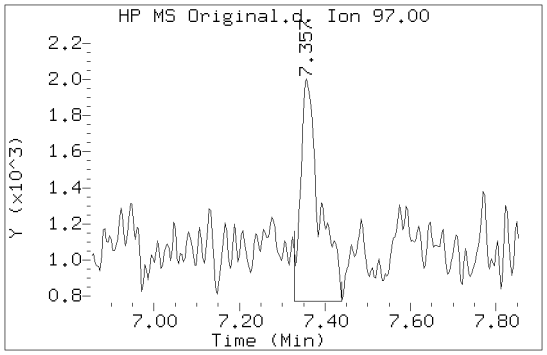
AFTER

MASS
83
AREA
1766
HEIGHT
892
04-Mar-2024
16:04
firat
tas



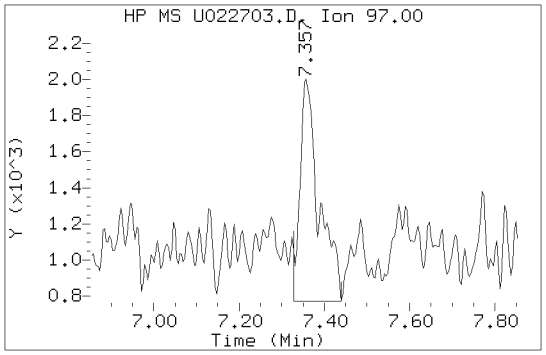
BEFORE

MASS
109
AREA
1889
HEIGHT
1051
27-Feb-2024
14:12
firat
tastan



AFTER

MASS
97
AREA
3857
HEIGHT
1231
04-Mar-2024
16:04
firat
tas

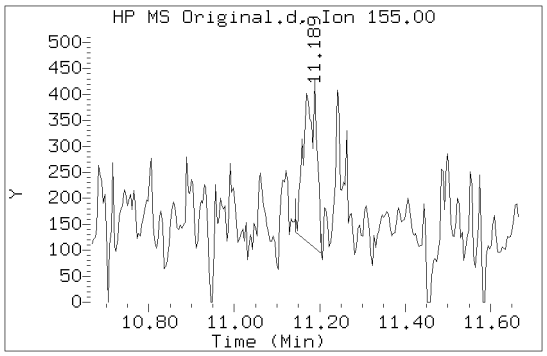


1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

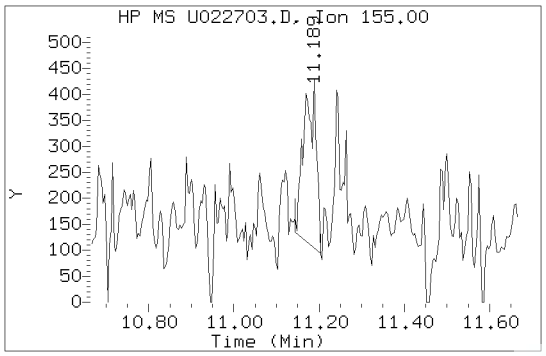
BEFORE

MASS
146
AREA
4881
HEIGHT
2994
27-Feb-2024
14:12
firat
tastan



AFTER

MASS
155
AREA
639
HEIGHT
323
04-Mar-2024
16:04
firat
tas

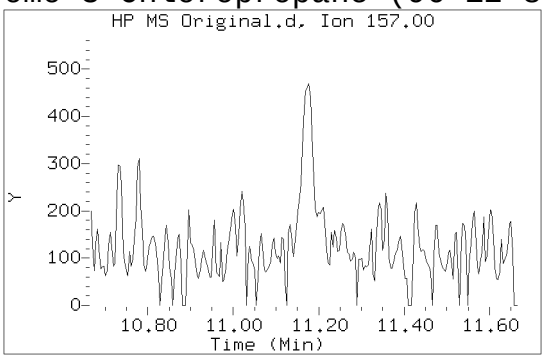


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InstruID : VOA9.i
LabSampID : VSTD00.5

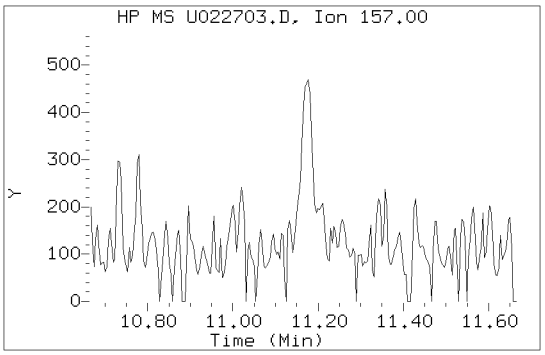
1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

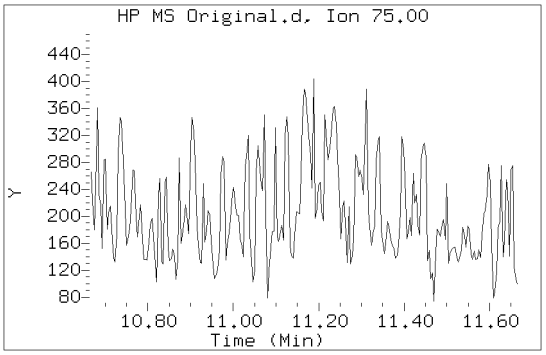
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3628
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27-Feb-2024
14:12
firat
tastan



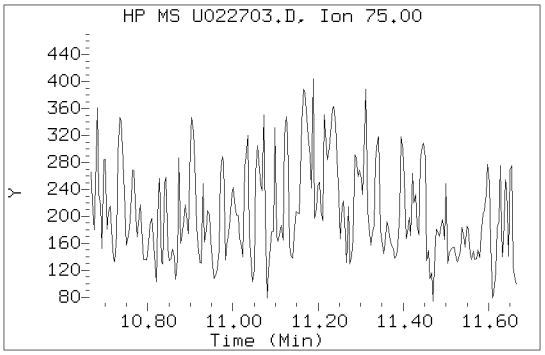
AFTER
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157
AREA
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HEIGHT
0
04-Mar-2024
16:04
firat
tas



BEFORE
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AREA
1759
HEIGHT
1096
27-Feb-2024
14:12
firat
tastan



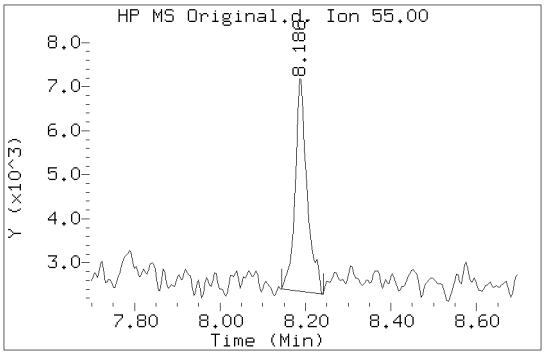
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16:04
firat
tas



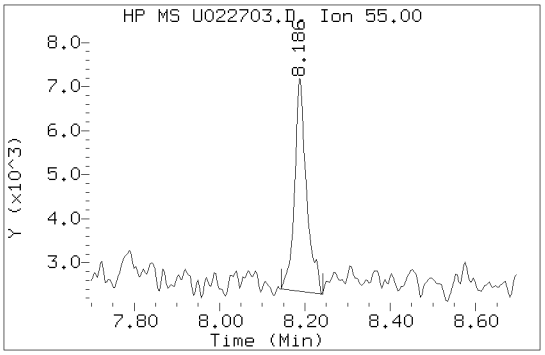
1-Chlorohexane (544-10-5)

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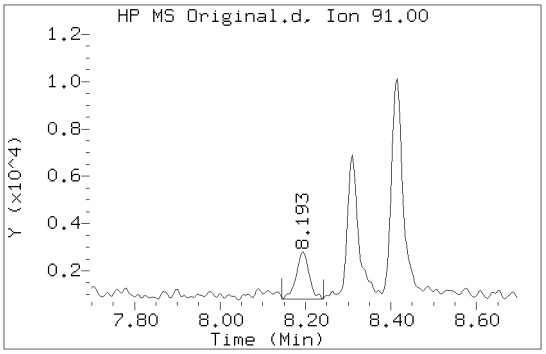
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146
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HEIGHT
2846
27-Feb-2024
14:12
firat
tastan



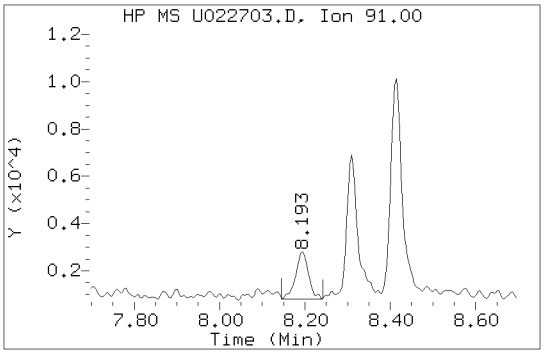
AFTER
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55
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9426
HEIGHT
4813
04-Mar-2024
16:04
firat
tas



BEFORE
MASS
111
AREA
2422
HEIGHT
1441
27-Feb-2024
14:12
firat
tastan



AFTER
MASS
91
AREA
4265
HEIGHT
2011
04-Mar-2024
16:04
firat
tas



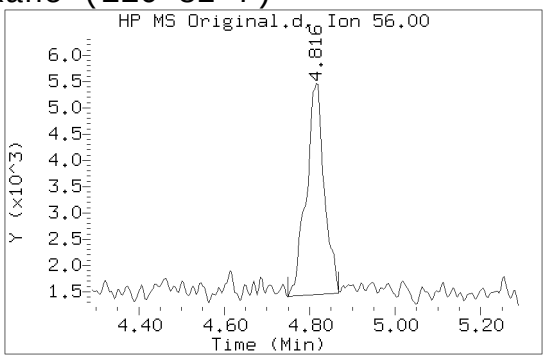
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Inj Date : 27-FEB-2024 10:34
InstruID : VOA9.i
LabSampID : VSTD00.5

Cyclohexane (110-82-7)

Reason Code:

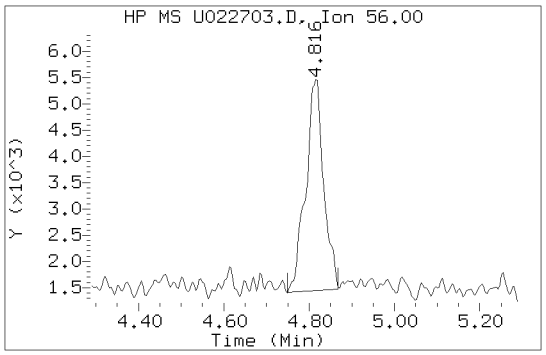
BEFORE

MASS
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AREA
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HEIGHT
1018
27-Feb-2024
14:12
firat
tastan



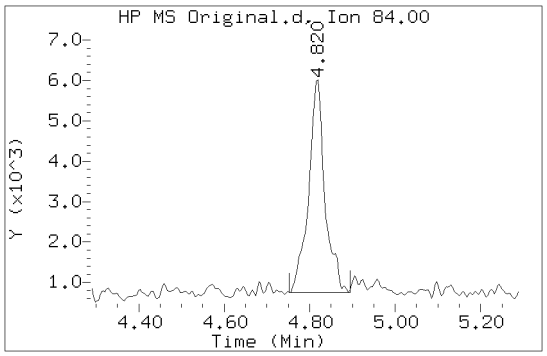
AFTER

MASS
56
AREA
11783
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4011
04-Mar-2024
16:04
firat
tas



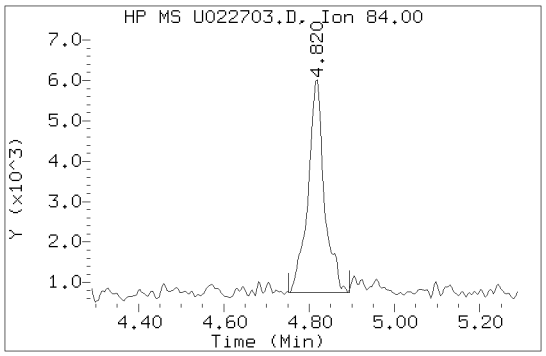
BEFORE

MASS
223
AREA
1307
HEIGHT
609
27-Feb-2024
14:12
firat
tastan



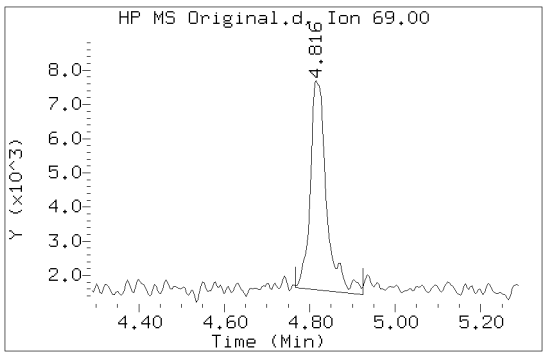
AFTER

MASS
84
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14010
HEIGHT
5256
04-Mar-2024
16:04
firat
tas



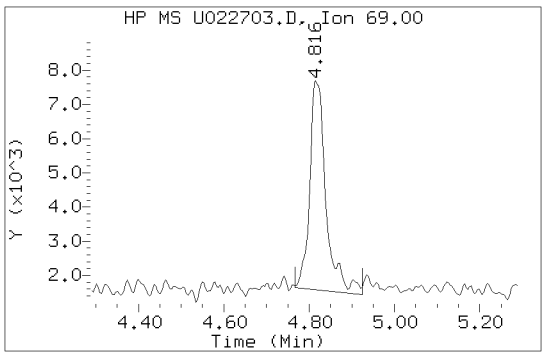
BEFORE

MASS
227
AREA
844
HEIGHT
492
27-Feb-2024
14:12
firat
tastan



AFTER

MASS
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AREA
16219
HEIGHT
6104
04-Mar-2024
16:04
firat
tas

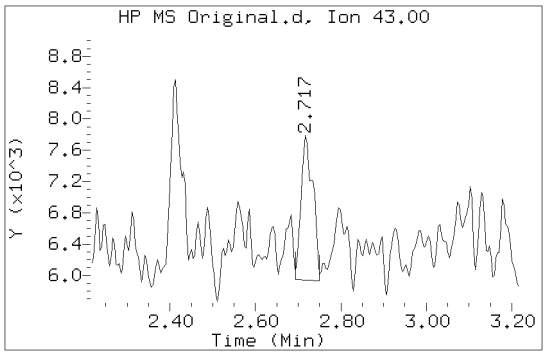


Methyl Acetate (79-20-9)

Reason Code:

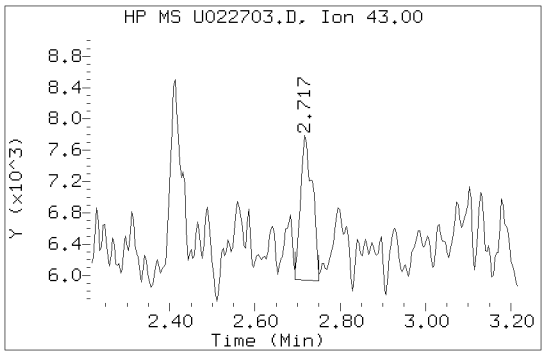
BEFORE

MASS
96
AREA
5932
HEIGHT
2301
27-Feb-2024
14:12
firat
tastan



AFTER

MASS
43
AREA
3605
HEIGHT
1849
04-Mar-2024
16:04
firat
tas



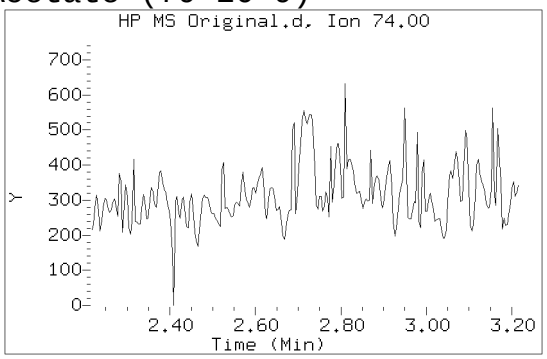
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Inj Date : 27-FEB-2024 10:34
InstruID : VOA9.i
LabSampID : VSTD00.5

Methyl Acetate (79-20-9)

Reason Code:

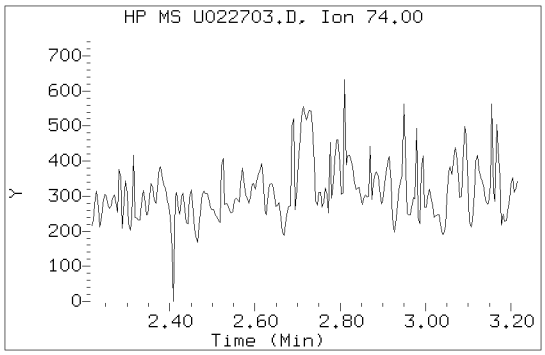
BEFORE

MASS
61
AREA
0
HEIGHT
0
27-Feb-2024
14:12
firat
tastan



AFTER

MASS
74
AREA
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HEIGHT
0
04-Mar-2024
16:04
firat
tas

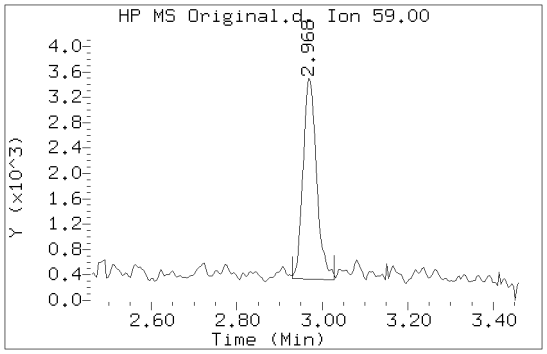


Tert-Butyl alcohol (75-65-0)

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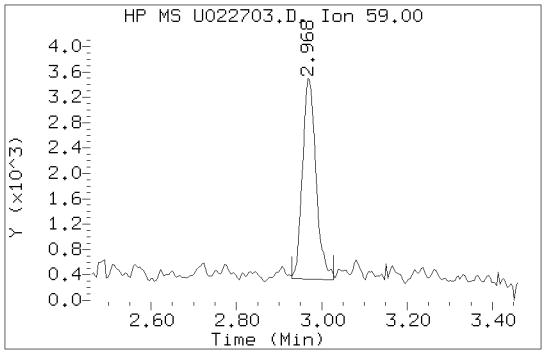
BEFORE

MASS
106
AREA
12292
HEIGHT
6985
27-Feb-2024
14:12
firat
tastan



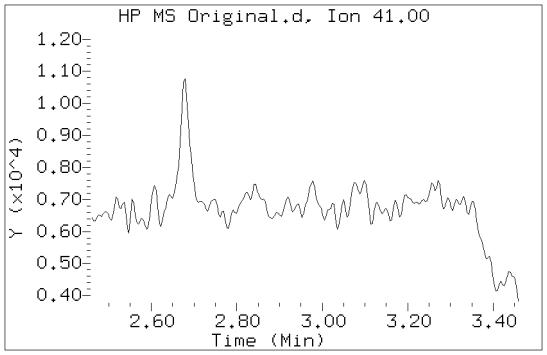
AFTER

MASS
59
AREA
7098
HEIGHT
3154
04-Mar-2024
16:04
firat
tas



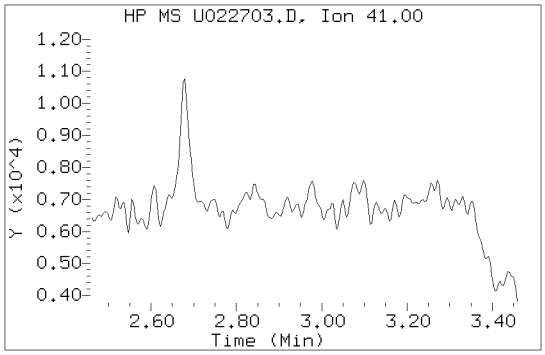
BEFORE

MASS
91
AREA
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HEIGHT
0
27-Feb-2024
14:12
firat
tastan



AFTER

MASS
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0
04-Mar-2024
16:04
firat
tas

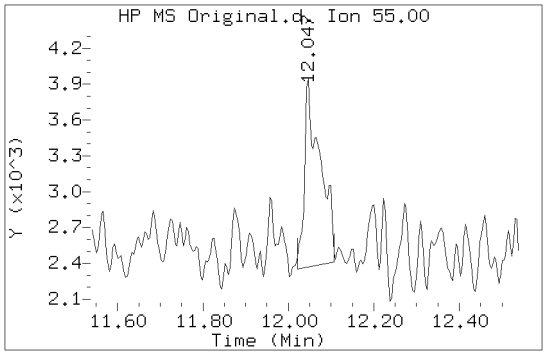


2-Ethylhexyl Acrylate (103-11-7)

Reason Code:

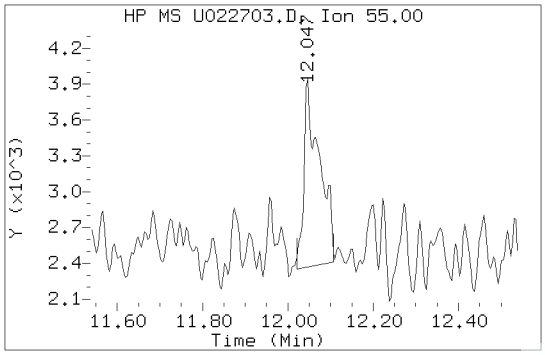
BEFORE

MASS
53
AREA
707
HEIGHT
523
27-Feb-2024
14:12
firat
tastan



AFTER

MASS
55
AREA
4022
HEIGHT
1573
04-Mar-2024
16:04
firat
tas



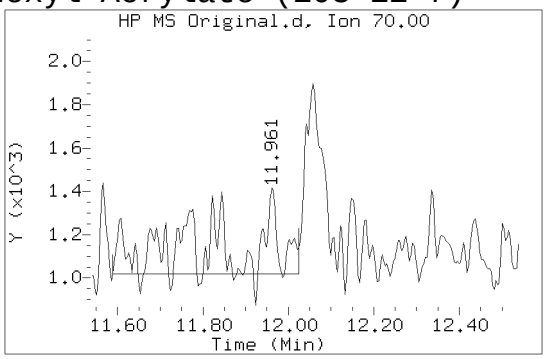
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Inj Date : 27-FEB-2024 10:34
InstruID : VOA9.i
LabSampID : VSTD00.5

2-Ethylhexyl Acrylate (103-11-7)

Reason Code:

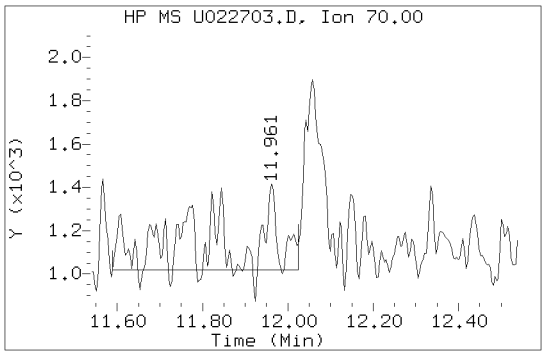
BEFORE

MASS
88
AREA
0
HEIGHT
0
27-Feb-2024
14:12
firat
tastan



AFTER

MASS
70
AREA
3071
HEIGHT
396
04-Mar-2024
16:04
firat
tas



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240227.b\U022704.D Page 1
Report Date: 04-Mar-2024 16:05

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240227.b\U022704.D
Lab Smp Id: VSTD001 Client Smp ID: VSTD001
Inj Date : 27-FEB-2024 10:57
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD001;VSTD001;1;3;;
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa9.i\U240227.b\8260C.m
Meth Date : 04-Mar-2024 16:05 VOA9.i Quant Type: ISTD
Cal Date : 27-FEB-2024 10:34 Cal File: U022703.D
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 08260V9.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.815	4.815	(1.000)	508014	50.0000	
2	Dichlorodifluoromethane	85	1.160	1.160	(0.241)	4677	1.00000	0.96
3	Chloromethane	50	1.295	1.295	(0.269)	6913	1.00000	1.15
5	Vinyl Chloride	62	1.374	1.374	(0.285)	5462	1.00000	0.95
6	Bromomethane	94	1.618	1.618	(0.336)	4055	1.00000	0.21
7	Chloroethane	64	1.700	1.700	(0.353)	3416	1.00000	0.86
8	Trichlorofluoromethane	101	1.895	1.895	(0.394)	6771	1.00000	0.95
9	Acrolein	56	2.270	2.270	(0.471)	1759	2.00000	7.79(M)
10	Acetone	43	1.959	1.959	(0.407)	7950	2.00000	2.57(M)
11	1,1-Dichloroethene	96	2.330	2.330	(0.484)	3541	1.00000	0.82
15	Iodomethane	142	2.469	2.469	(0.513)	3502	2.00000	6.59(T)
16	Acrylonitrile	53	3.068	3.068	(0.637)	4872	2.00000	3.27
17	Methylene Chloride	84	2.791	2.791	(0.580)	6845	1.00000	2.23
18	Methyl tert-butyl ether	73	3.076	3.076	(0.639)	16788	1.00000	1.16
19	Carbon Disulfide	76	2.517	2.517	(0.523)	17180	2.00000	1.96
20	trans-1,2-Dichloroethene	96	3.057	3.057	(0.635)	5460	1.00000	1.09(M)
21	Vinyl Acetate	43	3.612	3.612	(0.750)	23396	2.00000	1.93
22	1,1-Dichloroethane	63	3.515	3.515	(0.730)	7799	1.00000	0.98
24	2-Butanone	43	4.272	4.272	(0.887)	3895	2.00000	1.90(M)
26	2,2-Dichloropropane	77	4.186	4.186	(0.869)	8087	1.00000	1.11

27 cis-1,2-Dichloroethene	96	4.201	4.201 (0.872)	5109	1.00000	1.00
28 Chloroform	83	4.572	4.572 (0.949)	8049	1.00000	0.95

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	29 Bromochloromethane	128	4.470	4.470	(0.928)	2357	1.00000	0.91
$	30 Dibromofluoromethane	113	4.752	4.752	(0.987)	5897	1.00000	1.54
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	7630	1.00000	1.01
	32 1,1-Dichloropropene	75	4.920	4.920	(0.886)	4880	1.00000	0.79
	33 1,2-Dichloroethane	62	5.179	5.179	(0.933)	6993	1.00000	1.00
	34 Carbon Tetrachloride	117	4.909	4.909	(0.884)	7400	1.00000	2.83
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	6743	1.00000	1.58
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	724815	50.0000	
	37 Benzene	78	5.141	5.141	(0.926)	17701	1.00000	0.98
	38 Trichloroethene	130	5.794	5.794	(1.043)	5062	1.00000	0.96
	39 Bromodichloromethane	83	6.277	6.277	(1.130)	6721	1.00000	0.98
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	4872	1.00000	1.01
	44 Dibromomethane	93	6.124	6.124	(1.103)	2704	1.00000	0.91
	45 4-Methyl-2-Pentanone	43	6.858	6.858	(0.838)	9826	2.00000	1.99
	46 cis-1,3-Dichloropropene	75	6.693	6.693	(1.205)	7252	1.00000	0.96
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	643097	50.0000	
$	48 Toluene-d8	98	6.926	6.926	(0.846)	22968	1.00000	1.24
	50 Toluene	91	6.986	6.986	(0.853)	19996	1.00000	1.00
	51 trans-1,3-Dichloropropene	75	7.199	7.199	(1.296)	5364	1.00000	0.85
	52 2-Hexanone	43	7.713	7.713	(0.942)	7293	2.00000	1.88
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	4236	1.00000	1.15
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	8186	1.00000	1.04
	55 Dibromochloromethane	129	7.694	7.694	(0.940)	4562	1.00000	0.85
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	4880	1.00000	1.15
	57 1,2-Dibromoethane	107	7.788	7.788	(0.951)	3995	1.00000	0.89
	58 1-Chlorohexane	55	8.185	8.185	(1.474)	10528	1.00000	2.78(M)
	59 Chlorobenzene	112	8.208	8.208	(1.003)	13255	1.00000	1.01
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	4877	1.00000	1.01
	61 Ethylbenzene	106	8.305	8.305	(1.015)	6669	1.00000	1.00
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	16704	2.00000	1.98
	63 o-Xylene	106	8.748	8.748	(1.069)	7457	1.00000	0.90
	64 Styrene	104	8.766	8.766	(1.071)	14598	1.00000	1.00
	66 Bromoform	173	8.920	8.920	(1.090)	4092	1.00000	0.97
	67 Isopropylbenzene	105	9.063	9.063	(1.107)	21081	1.00000	0.99
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	5987	1.00000	0.97
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	9050	1.00000	1.37
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	335476	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.921)	6029	1.00000	0.93
	73 n-Propylbenzene	91	9.415	9.415	(0.926)	22804	1.00000	1.01
	74 Bromobenzene	156	9.321	9.321	(0.917)	6135	1.00000	1.05
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	19006	1.00000	1.07
	76 2-Chlorotoluene	91	9.486	9.486	(0.933)	15512	1.00000	1.06
	77 4-Chlorotoluene	91	9.580	9.580	(0.942)	16810	1.00000	1.00
	78 tert-Butylbenzene	119	9.835	9.835	(0.967)	15592	1.00000	1.06
	79 1,2,4-Trimethylbenzene	105	9.880	9.880	(0.972)	18398	1.00000	1.05
	81 sec-Butylbenzene	105	10.022	10.022	(0.986)	19150	1.00000	0.99
	82 p-Isopropyltoluene	119	10.146	10.146	(0.998)	17533	1.00000	0.98
	83 1,3-Dichlorobenzene	146	10.116	10.116	(0.995)	9589	1.00000	0.95
	84 1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	9715	1.00000	0.93
	87 n-Butylbenzene	91	10.495	10.495	(1.032)	16033	1.00000	1.08
	88 1,2-Dichlorobenzene	146	10.510	10.510	(1.034)	10112	1.00000	0.99
	89 1,2-Dibromo-3-Chloropropane	155	11.173	11.173	(1.099)	1211	1.00000	1.04

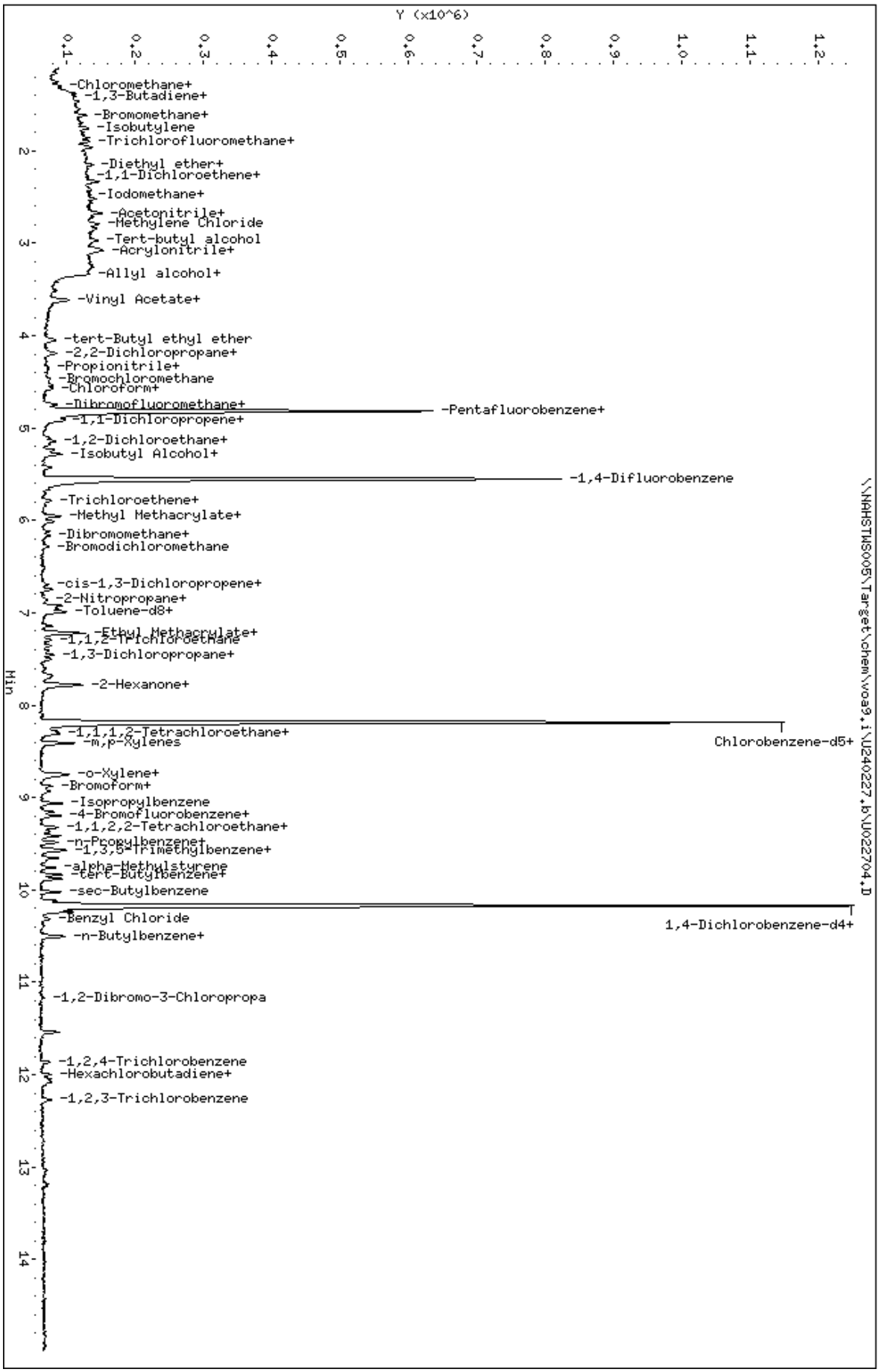
90 1,2,4-Trichlorobenzene	180	11.863	11.863 (1.167)	5726	1.00000	0.84
91 Hexachlorobutadiene	225	11.998	11.998 (1.180)	3118	1.00000	1.01

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240227.b\U022704.D Page 3
Report Date: 04-Mar-2024 16:05

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	92 Naphthalene	128	12.073	12.073	(1.187)	14140	1.00000	0.84
	93 1,2,3-Trichlorobenzene	180	12.271	12.271	(1.207)	6373	1.00000	0.98
M	94 1,2-Dichloroethylene (total)	96				10569	2.00000	
M	95 Xylenes (total)	106				24161	3.00000	
	135 1,4-Dioxane	88	6.176	6.176	(1.283)	1614	20.0000	19.70
	141 Cyclohexane	56	4.812	4.812	(0.999)	13347	1.00000	2.83(M)
	138 Freon TF	101	2.334	2.334	(0.485)	3842	1.00000	0.99
	140 1,3-Butadiene	54	1.404	1.404	(0.292)	2962	1.00000	2.78
	147 Methylcyclohexane	55	5.951	5.951	(1.072)	17916	1.00000	2.49
	146 Methyl Acetate	43	2.716	2.716	(0.564)	7457	1.00000	1.19(M)
	162 Butyl acrylate	55	8.740	8.740	(1.068)	10817	1.00000	0.98(a)
	203 2-Ethylhexyl Acrylate	55	12.047	12.047	(1.185)	8282	1.00000	1.11(aM)
	148 Tert-Butyl alcohol	59	2.967	2.967	(0.616)	14974	20.0000	21.32(aM)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



Data File: \\NAHSTMS005\Target\chem\voa9.i\U240227.b\U022704.D
Date : 27-FEB-2024 10:57
Client ID: VSTD001
Sample Info: VSTD001;VSTD001;1;3;;
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: FT
Column diameter: 0.18

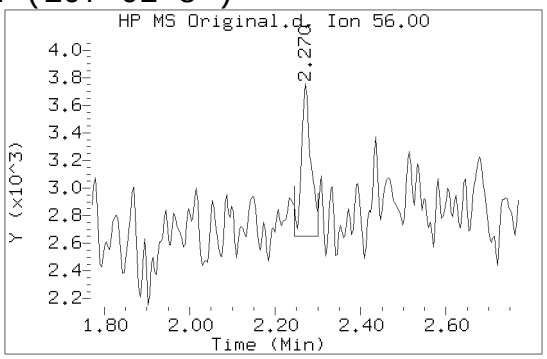
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Inj Date : 27-FEB-2024 10:57
InstruID : VOA9.i
LabSampID : VSTD001

Acrolein (107-02-8)

Reason Code:

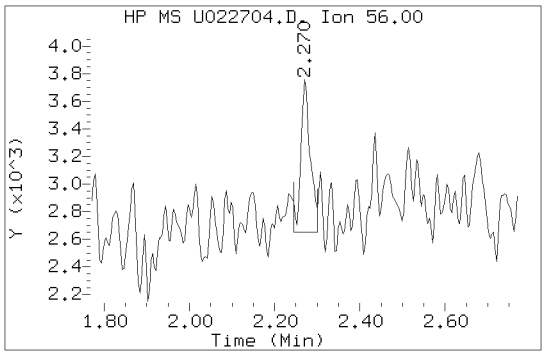
BEFORE

MASS
142
AREA
3502
HEIGHT
2055
27-Feb-2024
14:13
firat
tastan



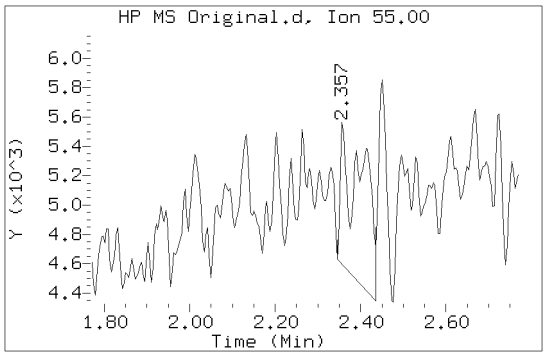
AFTER

MASS
56
AREA
1759
HEIGHT
1106
04-Mar-2024
16:04
firat
tas



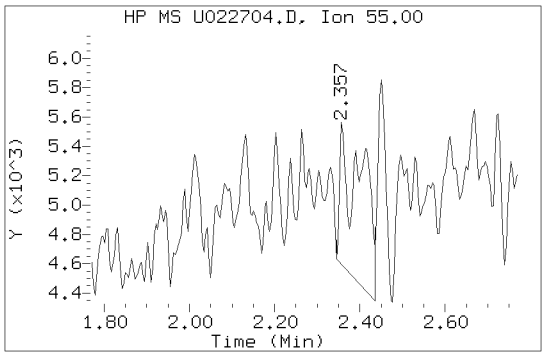
BEFORE

MASS
127
AREA
1489
HEIGHT
657
27-Feb-2024
14:13
firat
tastan



AFTER

MASS
55
AREA
3639
HEIGHT
969
04-Mar-2024
16:04
firat
tas

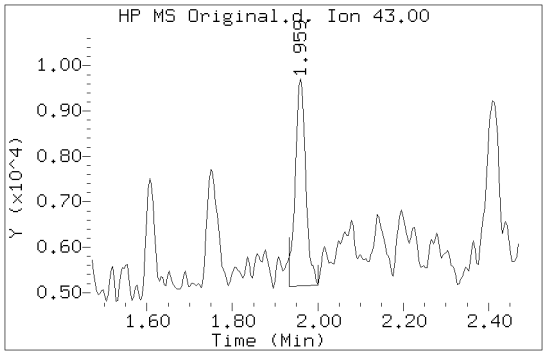


Acetone (67-64-1)

Reason Code:

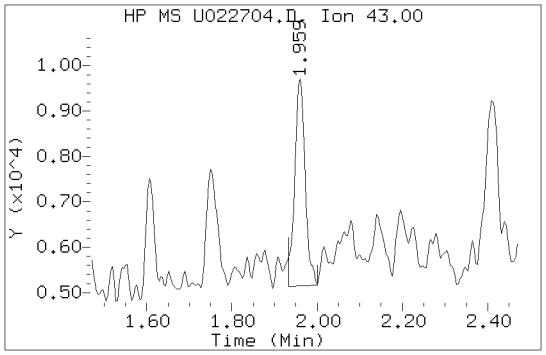
BEFORE

MASS
53
AREA
4872
HEIGHT
2160
27-Feb-2024
14:13
firat
tastan



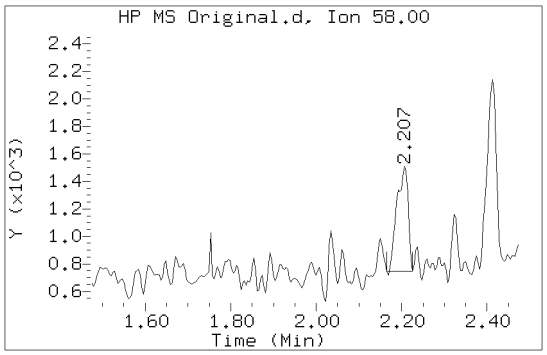
AFTER

MASS
43
AREA
7950
HEIGHT
4557
04-Mar-2024
16:04
firat
tas



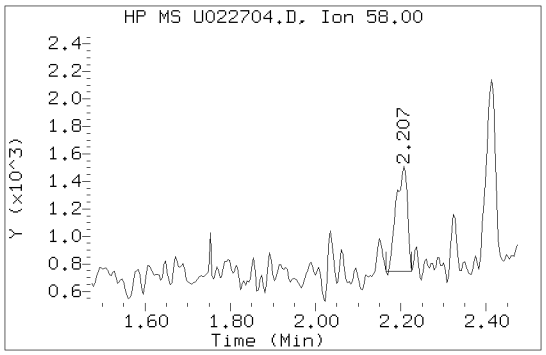
BEFORE

MASS
52
AREA
3409
HEIGHT
1612
27-Feb-2024
14:13
firat
tastan



AFTER

MASS
58
AREA
1382
HEIGHT
765
04-Mar-2024
16:04
firat
tas



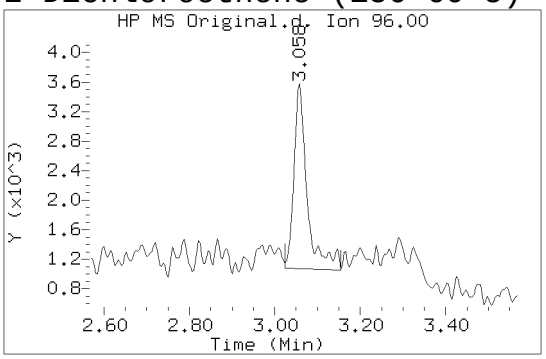
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Inj Date : 27-FEB-2024 10:57
InstruID : VOA9.i
LabSampID : VSTD001

trans-1,2-Dichloroethene (156-60-5)

Reason Code:

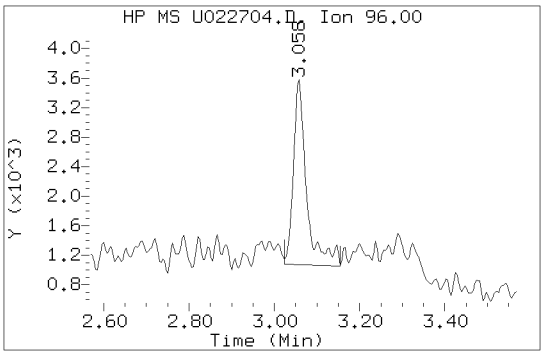
BEFORE

MASS
77
AREA
8087
HEIGHT
3202
27-Feb-2024
14:13
firat
tastan



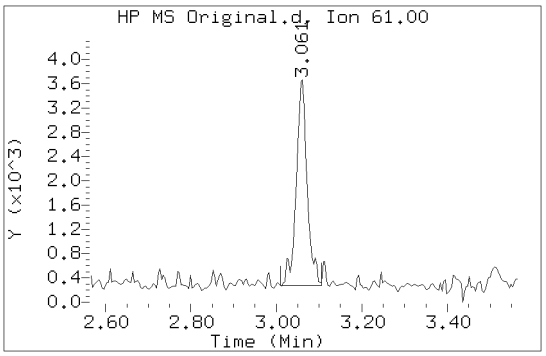
AFTER

MASS
96
AREA
5460
HEIGHT
2505
04-Mar-2024
16:04
firat
tas



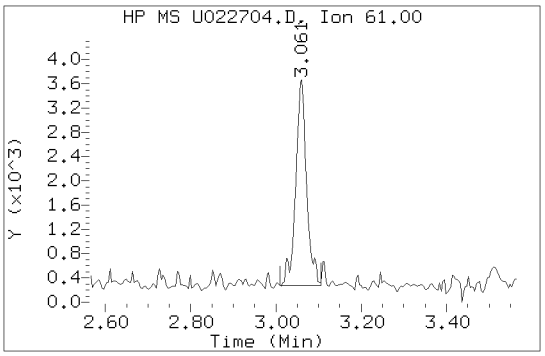
BEFORE

MASS
97
AREA
1754
HEIGHT
877
27-Feb-2024
14:13
firat
tastan



AFTER

MASS
61
AREA
6171
HEIGHT
3389
04-Mar-2024
16:04
firat
tas

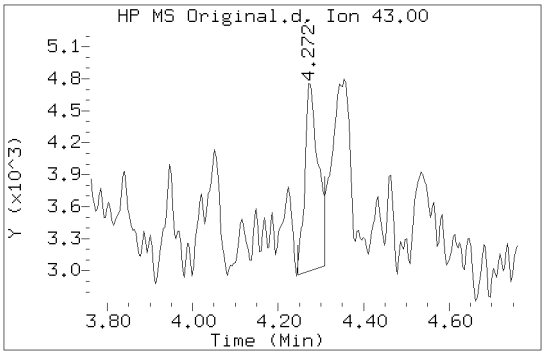


2-Butanone (78-93-3)

Reason Code:

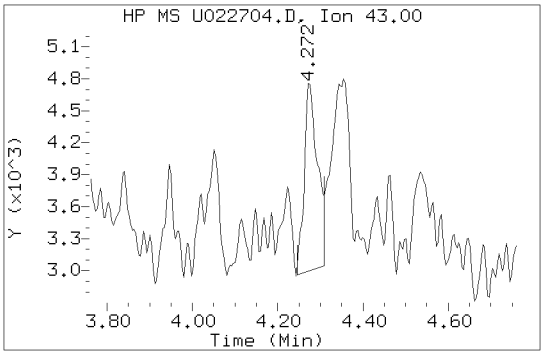
BEFORE

MASS
128
AREA
2357
HEIGHT
1157
27-Feb-2024
14:13
firat
tastan



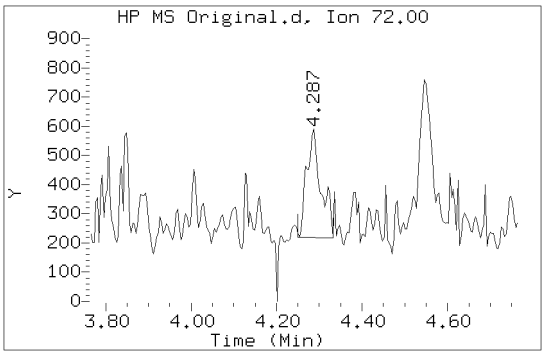
AFTER

MASS
43
AREA
3895
HEIGHT
1761
04-Mar-2024
16:04
firat
tas



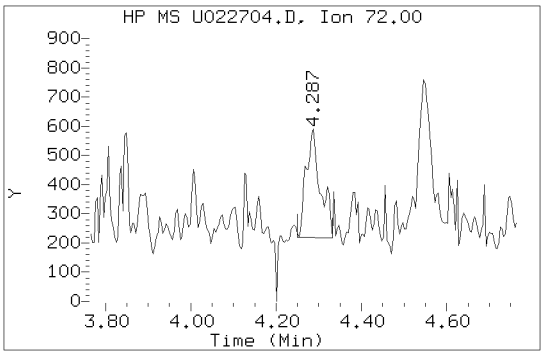
BEFORE

MASS
49
AREA
3443
HEIGHT
1789
27-Feb-2024
14:13
firat
tastan



AFTER

MASS
72
AREA
872
HEIGHT
373
04-Mar-2024
16:04
firat
tas

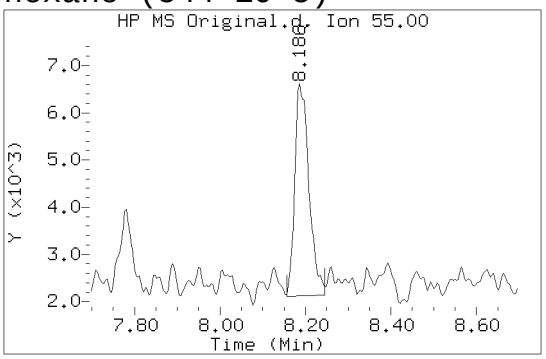


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Inj Date : 27-FEB-2024 10:57
InstruID : VOA9.i
LabSampID : VSTD001

1-Chlorohexane (544-10-5)

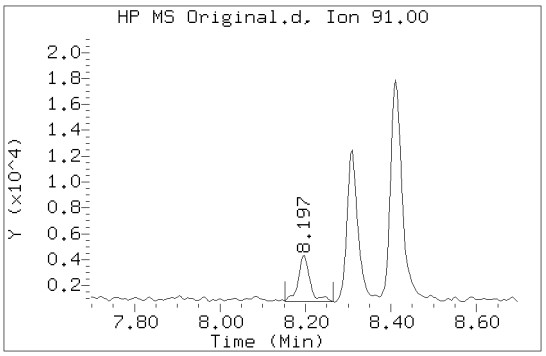
BEFORE

MASS
146
AREA
10112
HEIGHT
5853
27-Feb-2024
14:13
firat
tastan



BEFORE

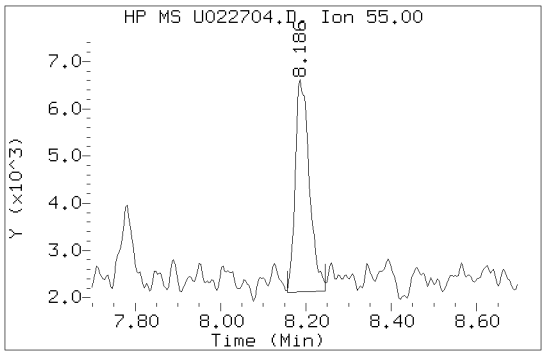
MASS
111
AREA
3902
HEIGHT
2171
27-Feb-2024
14:13
firat
tastan



Reason Code:

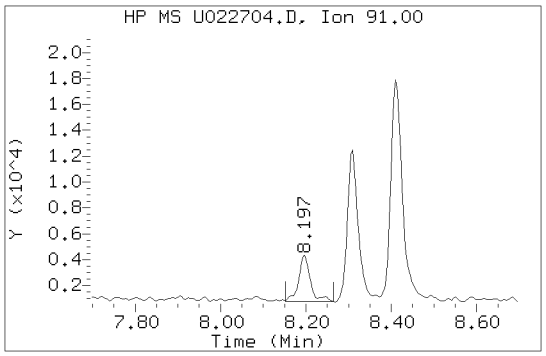
AFTER

MASS
55
AREA
10528
HEIGHT
4493
04-Mar-2024
16:04
firat
tas



AFTER

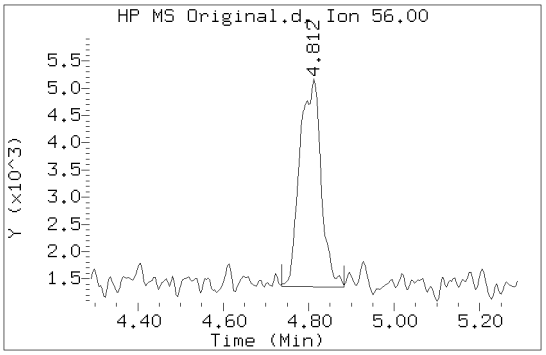
MASS
91
AREA
7133
HEIGHT
3608
04-Mar-2024
16:04
firat
tas



Cyclohexane (110-82-7)

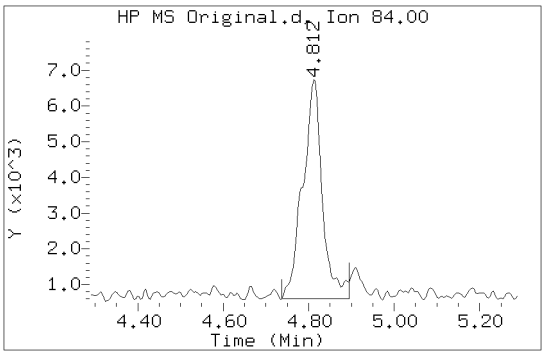
BEFORE

MASS
225
AREA
3118
HEIGHT
2077
27-Feb-2024
14:13
firat
tastan



BEFORE

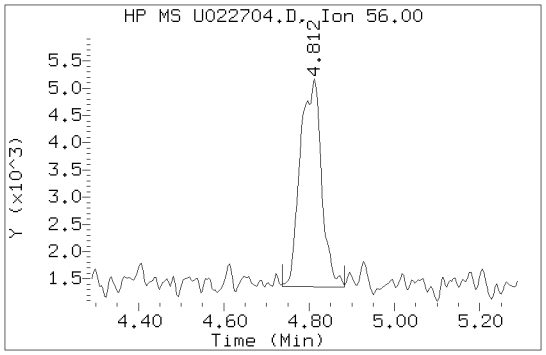
MASS
223
AREA
2229
HEIGHT
1544
27-Feb-2024
14:13
firat
tastan



Reason Code:

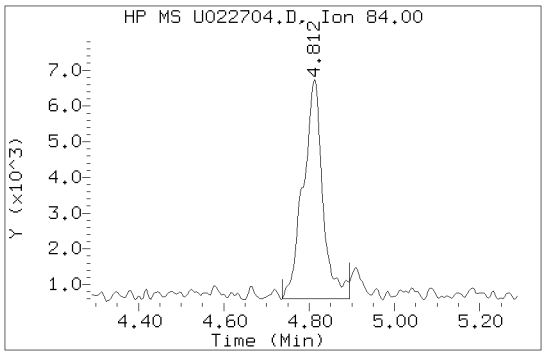
AFTER

MASS
56
AREA
13347
HEIGHT
3814
04-Mar-2024
16:04
firat
tas



AFTER

MASS
84
AREA
19756
HEIGHT
6129
04-Mar-2024
16:04
firat
tas



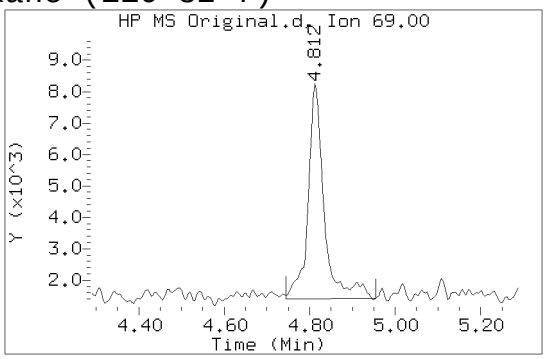
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240227.b\U022704.D
Inj Date : 27-FEB-2024 10:57
InstruID : VOA9.i
LabSampID : VSTD001

Cyclohexane (110-82-7)

Reason Code:

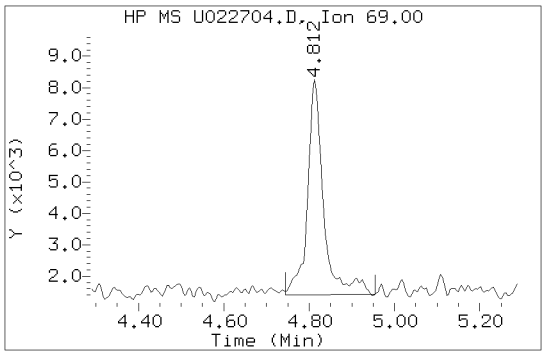
BEFORE

MASS
227
AREA
2145
HEIGHT
1184
27-Feb-2024
14:13
firat
tastan



AFTER

MASS
69
AREA
17855
HEIGHT
6837
04-Mar-2024
16:04
firat
tas

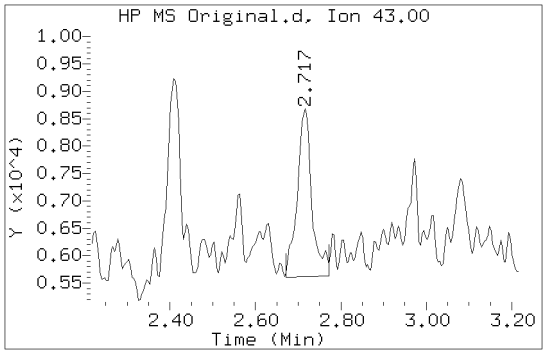


Methyl Acetate (79-20-9)

Reason Code:

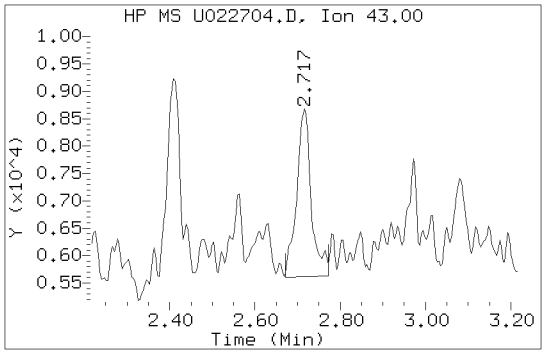
BEFORE

MASS
96
AREA
10569
HEIGHT
4786
27-Feb-2024
14:13
firat
tastan



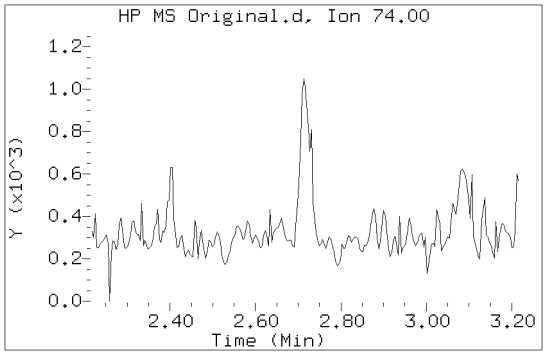
AFTER

MASS
43
AREA
7457
HEIGHT
3064
04-Mar-2024
16:04
firat
tas



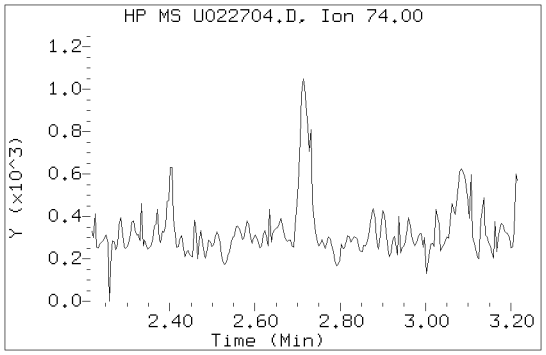
BEFORE

MASS
61
AREA
0
HEIGHT
0
27-Feb-2024
14:13
firat
tastan



AFTER

MASS
74
AREA
0
HEIGHT
0
04-Mar-2024
16:04
firat
tas

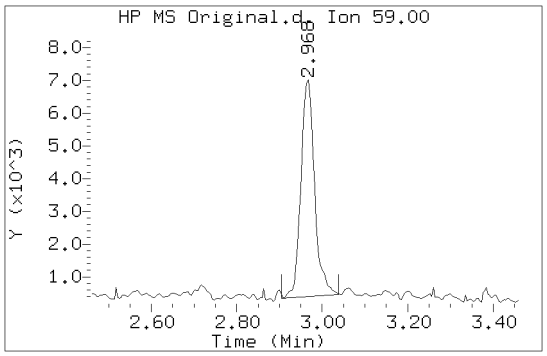


Tert-Butyl alcohol (75-65-0)

Reason Code:

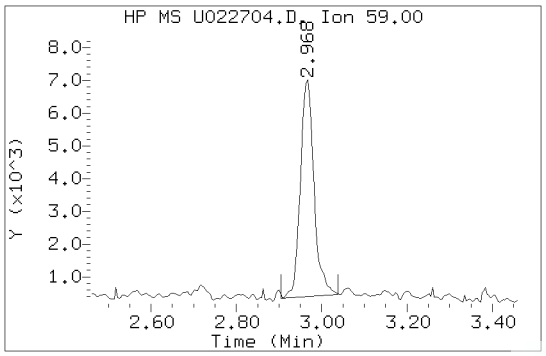
BEFORE

MASS
106
AREA
24161
HEIGHT
13553
27-Feb-2024
14:13
firat
tastan



AFTER

MASS
59
AREA
14974
HEIGHT
6617
04-Mar-2024
16:04
firat
tas



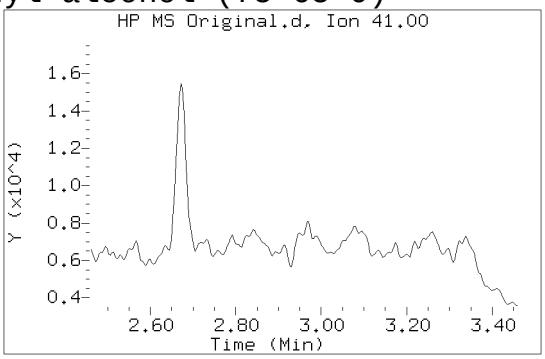
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Inj Date : 27-FEB-2024 10:57
InstruID : VOA9.i
LabSampID : VSTD001

Tert-Butyl alcohol (75-65-0)

Reason Code:

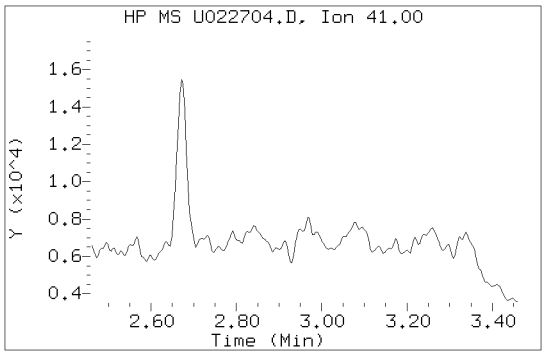
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27-Feb-2024
14:13
firat
tastan



AFTER

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04-Mar-2024
16:04
firat
tas

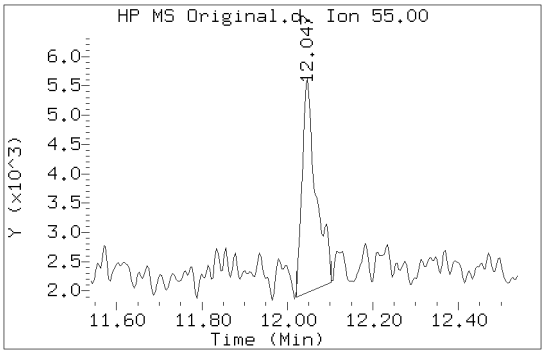


2-Ethylhexyl Acrylate (103-11-7)

Reason Code:

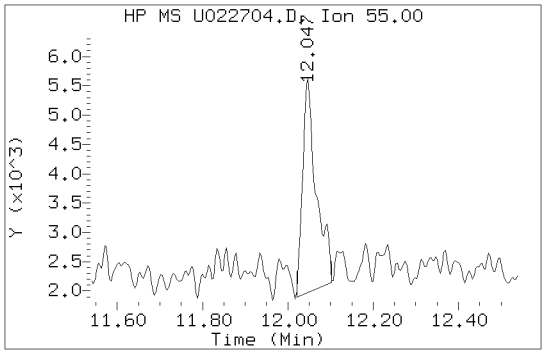
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tastan



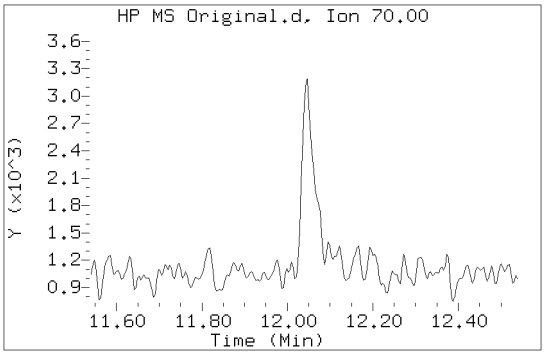
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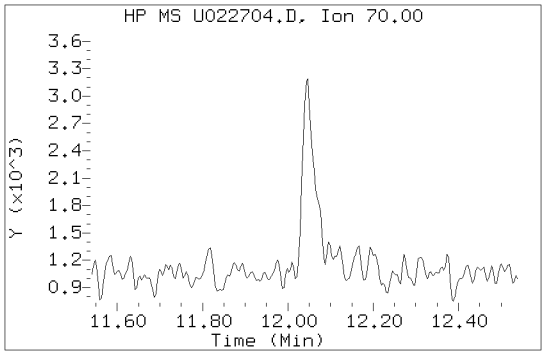
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tastan



AFTER

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0
04-Mar-2024
16:04
firat
tas



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240227.b\U022705.D Page 1
Report Date: 04-Mar-2024 16:05

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240227.b\U022705.D
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Inj Date : 27-FEB-2024 11:19
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD002;VSTD002;1;4;;
Misc Info : V9;WATER;0;1;
Comment   :
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Meth Date : 04-Mar-2024 16:05 VOA9.i Quant Type: ISTD
Cal Date : 27-FEB-2024 10:57 Cal File: U022704.D
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 08260V9.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.819	4.819	(1.000)	477412	50.0000	
2 Dichlorodifluoromethane	85	1.164	1.164	(0.242)	8457	2.00000	1.85
3 Chloromethane	50	1.299	1.299	(0.270)	11166	2.00000	1.97
5 Vinyl Chloride	62	1.378	1.378	(0.286)	11096	2.00000	2.06
6 Bromomethane	94	1.625	1.625	(0.337)	6925	2.00000	1.65
7 Chloroethane	64	1.700	1.700	(0.353)	9341	2.00000	2.52
8 Trichlorofluoromethane	101	1.899	1.899	(0.394)	12284	2.00000	1.83
9 Acrolein	56	2.270	2.270	(0.471)	2848	4.00000	13.10(M)
10 Acetone	43	1.966	1.966	(0.408)	11592	4.00000	3.99(M)
11 1,1-Dichloroethene	96	2.337	2.337	(0.485)	7842	2.00000	1.93
15 Iodomethane	142	2.468	2.468	(0.512)	8203	4.00000	7.54
16 Acrylonitrile	53	3.068	3.068	(0.637)	11050	4.00000	6.80
17 Methylene Chloride	84	2.795	2.795	(0.580)	11230	2.00000	3.23
18 Methyl tert-butyl ether	73	3.083	3.083	(0.640)	29414	2.00000	2.18
19 Carbon Disulfide	76	2.521	2.521	(0.523)	33913	4.00000	4.12
20 trans-1,2-Dichloroethene	96	3.064	3.064	(0.636)	8595	2.00000	1.83
21 Vinyl Acetate	43	3.616	3.616	(0.750)	49914	4.00000	4.39
22 1,1-Dichloroethane	63	3.514	3.514	(0.729)	13893	2.00000	1.87
24 2-Butanone	43	4.279	4.279	(0.888)	9027	4.00000	4.68(M)
26 2,2-Dichloropropane	77	4.185	4.185	(0.869)	13040	2.00000	1.90

27 cis-1,2-Dichloroethene	96	4.200	4.200 (0.872)	8876	2.00000	1.85
28 Chloroform	83	4.579	4.579 (0.950)	16571	2.00000	2.08

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240227.b\U022705.D Page 2
Report Date: 04-Mar-2024 16:05

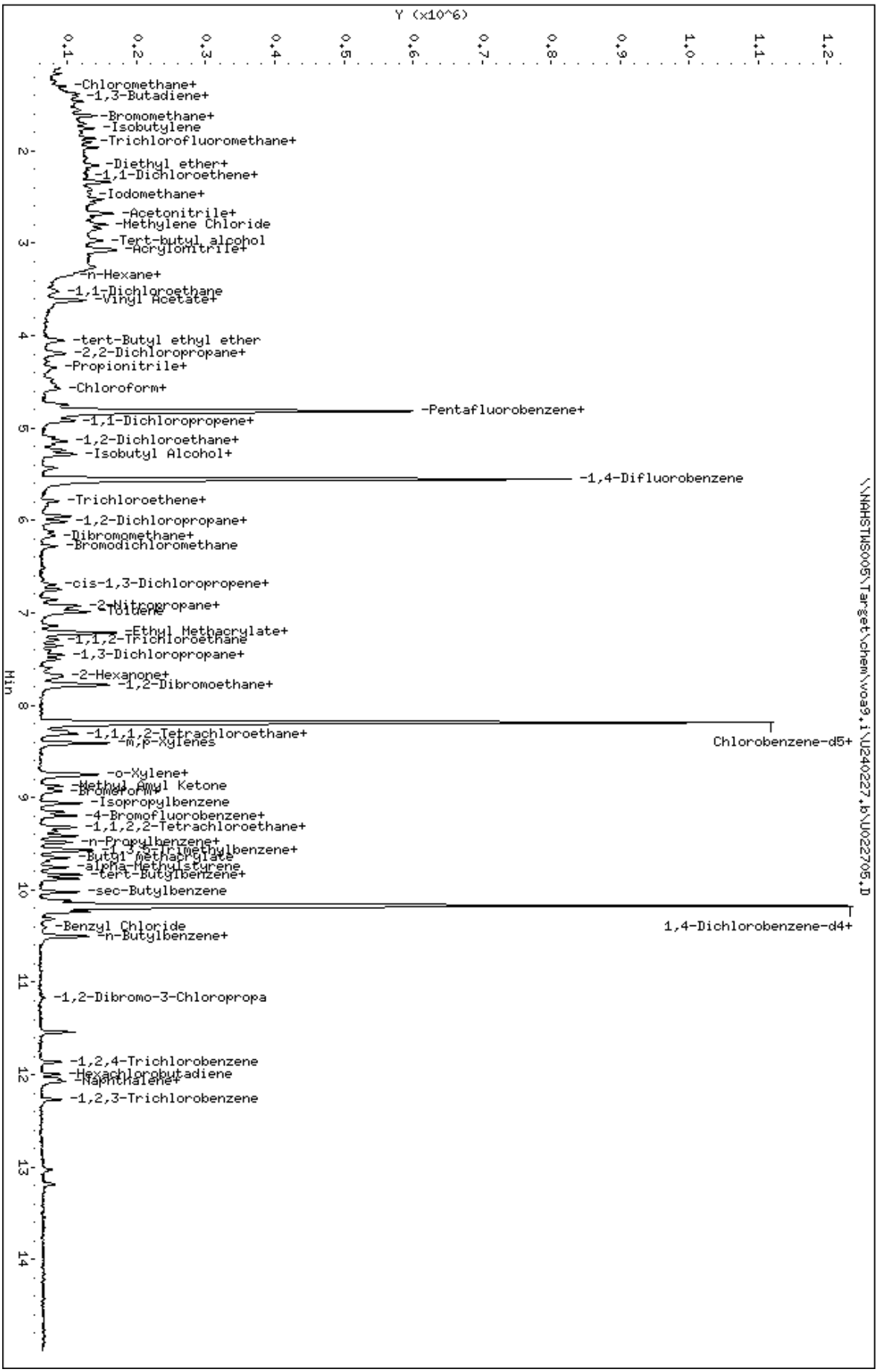
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	29 Bromochloromethane	128	4.474	4.474	(0.928)	5227	2.00000	2.15
$	30 Dibromofluoromethane	113	4.748	4.748	(0.985)	12052	2.00000	2.92(M)
	31 1,1,1-Trichloroethane	97	4.748	4.748	(0.985)	13688	2.00000	1.93
	32 1,1-Dichloropropene	75	4.924	4.924	(0.887)	13068	2.00000	2.23
	33 1,2-Dichloroethane	62	5.179	5.179	(0.933)	12641	2.00000	1.90
	34 Carbon Tetrachloride	117	4.916	4.916	(0.885)	12406	2.00000	3.62
$	35 1,2-Dichloroethane-d4	65	5.100	5.100	(1.058)	13181	2.00000	2.79
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	693145	50.0000	
	37 Benzene	78	5.141	5.141	(0.926)	33068	2.00000	1.92
	38 Trichloroethene	130	5.793	5.793	(1.043)	10676	2.00000	2.12
	39 Bromodichloromethane	83	6.281	6.281	(1.131)	11890	2.00000	1.83
	42 1,2-Dichloropropane	63	6.011	6.011	(1.082)	8946	2.00000	1.95
	44 Dibromomethane	93	6.120	6.120	(1.102)	5763	2.00000	2.04
	45 4-Methyl-2-Pentanone	43	6.854	6.854	(0.837)	20584	4.00000	4.32
	46 cis-1,3-Dichloropropene	75	6.693	6.693	(1.205)	12915	2.00000	1.80
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	620136	50.0000	
$	48 Toluene-d8	98	6.926	6.926	(0.846)	41373	2.00000	2.32
	50 Toluene	91	6.982	6.982	(0.853)	39062	2.00000	2.04
	51 trans-1,3-Dichloropropene	75	7.199	7.199	(1.296)	10328	2.00000	1.71
	52 2-Hexanone	43	7.713	7.713	(0.942)	13369	4.00000	3.57
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	7148	2.00000	2.02
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	14098	2.00000	1.85
	55 Dibromochloromethane	129	7.694	7.694	(0.940)	9985	2.00000	1.94
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	8132	2.00000	1.99
	57 1,2-Dibromoethane	107	7.788	7.788	(0.951)	8417	2.00000	1.96
	58 1-Chlorohexane	55	8.193	8.193	(1.475)	14124	2.00000	3.73(M)
	59 Chlorobenzene	112	8.211	8.211	(1.003)	24504	2.00000	1.93
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	9453	2.00000	2.04
	61 Ethylbenzene	106	8.309	8.309	(1.015)	12224	2.00000	1.90
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	32113	4.00000	3.95
	63 o-Xylene	106	8.747	8.747	(1.069)	16928	2.00000	2.13
	64 Styrene	104	8.766	8.766	(1.071)	26554	2.00000	1.88
	66 Bromoform	173	8.920	8.920	(1.090)	7583	2.00000	1.87
	67 Isopropylbenzene	105	9.062	9.062	(1.107)	39892	2.00000	1.95
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	12756	2.00000	2.16
$	69 4-Bromofluorobenzene	95	9.197	9.197	(1.124)	16702	2.00000	2.62
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	321803	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	12697	2.00000	2.04
	73 n-Propylbenzene	91	9.415	9.415	(0.926)	43998	2.00000	2.04
	74 Bromobenzene	156	9.317	9.317	(0.916)	11697	2.00000	2.09
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	34825	2.00000	2.04
	76 2-Chlorotoluene	91	9.482	9.482	(0.932)	28056	2.00000	2.01
	77 4-Chlorotoluene	91	9.580	9.580	(0.942)	34975	2.00000	2.17
	78 tert-Butylbenzene	119	9.835	9.835	(0.967)	27671	2.00000	1.97
	79 1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	33650	2.00000	2.01
	81 sec-Butylbenzene	105	10.022	10.022	(0.985)	37419	2.00000	2.02
	82 p-Isopropyltoluene	119	10.146	10.146	(0.997)	34201	2.00000	2.01
	83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	19100	2.00000	1.98
	84 1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	20584	2.00000	2.06
	87 n-Butylbenzene	91	10.494	10.494	(1.032)	26480	2.00000	1.87
	88 1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	20933	2.00000	2.15
	89 1,2-Dibromo-3-Chloropropane	155	11.173	11.173	(1.098)	2185	2.00000	1.97

90 1,2,4-Trichlorobenzene	180	11.859	11.859 (1.166)	11834	2.00000	1.81
91 Hexachlorobutadiene	225	11.998	11.998 (1.179)	5877	2.00000	1.98

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	92 Naphthalene	128	12.073	12.073	(1.187)	28929	2.00000	1.80
	93 1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	11565	2.00000	1.85
M	94 1,2-Dichloroethylene (total)	96				17471	4.00000	
M	95 Xylenes (total)	106				49041	6.00000	
	135 1,4-Dioxane	88	6.176	6.176	(1.282)	3784	40.0000	54.74
	141 Cyclohexane	56	4.789	4.789	(0.994)	19250	2.00000	3.81(M)
	138 Freon TF	101	2.341	2.341	(0.486)	6303	2.00000	1.73
	140 1,3-Butadiene	54	1.404	1.404	(0.291)	3599	2.00000	3.19
	147 Methylcyclohexane	55	5.955	5.955	(1.072)	24719	2.00000	3.08
	146 Methyl Acetate	43	2.716	2.716	(0.564)	12998	2.00000	2.21(M)
	162 Butyl acrylate	55	8.740	8.740	(1.068)	21092	2.00000	1.98(a)
	203 2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	13390	2.00000	1.88(aM)
	148 Tert-Butyl alcohol	59	2.971	2.971	(0.617)	30244	40.0000	45.82(a)
	149 Isopropyl Alcohol	45	2.566	2.566	(0.532)	16748	40.0000	43.49(T)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Sample Info: VSTD002;VSTD002;1;4;;
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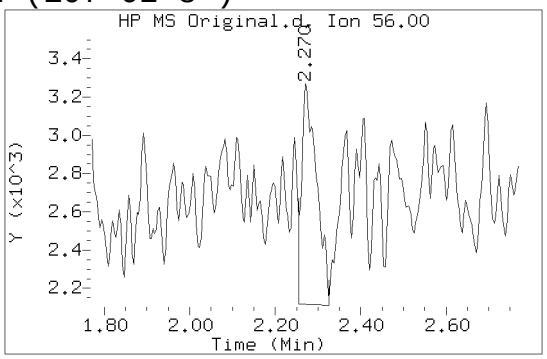
Instrument: VOA9.i
Operator: FT
Column diameter: 0.18

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Inj Date : 27-FEB-2024 11:19
InstruID : VOA9.i
LabSampID : VSTD002

Acrolein (107-02-8)

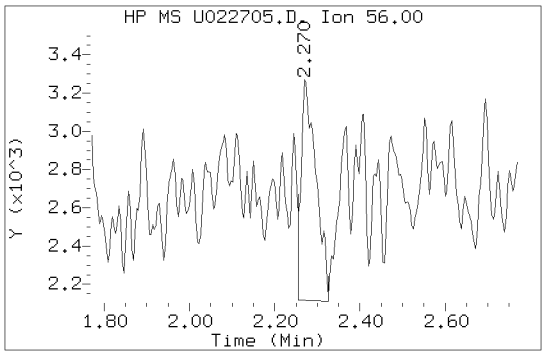
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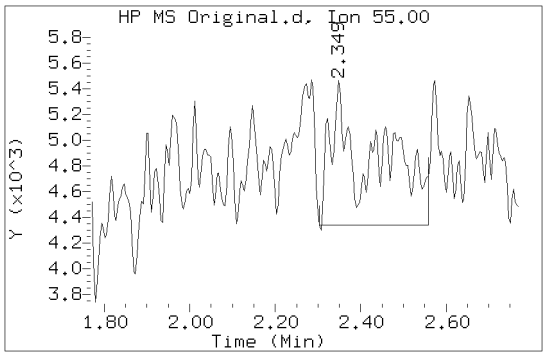
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27-Feb-2024
14:13
firat
tastan

AFTER



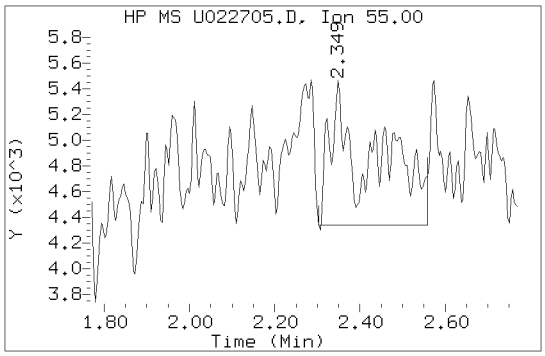
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16:04
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tas

BEFORE



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27-Feb-2024
14:13
firat
tastan

AFTER

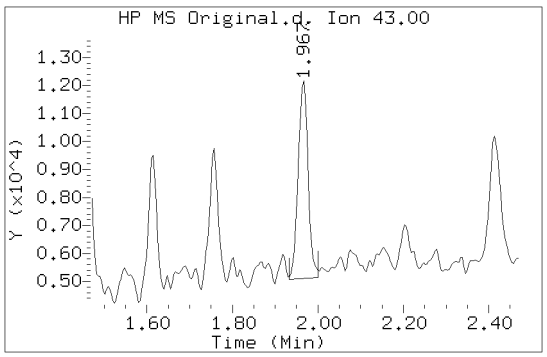


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16:04
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tas

Acetone (67-64-1)

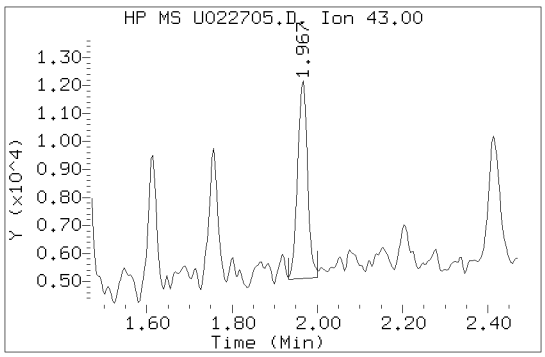
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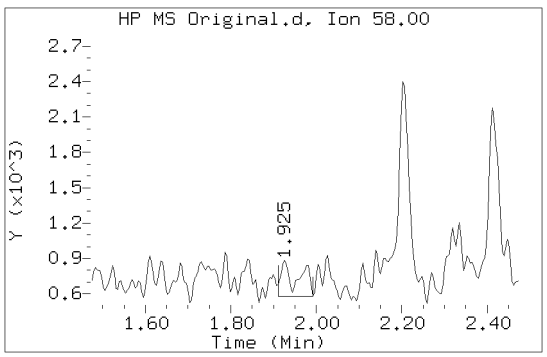
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AFTER



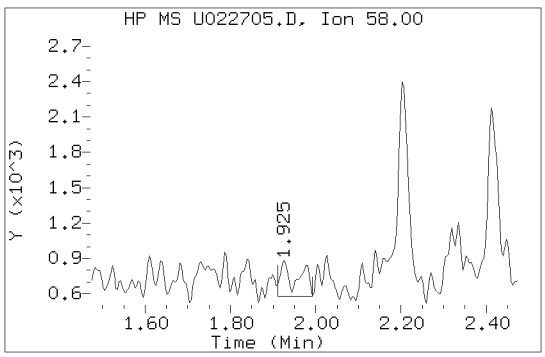
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BEFORE



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firat
tastan

AFTER



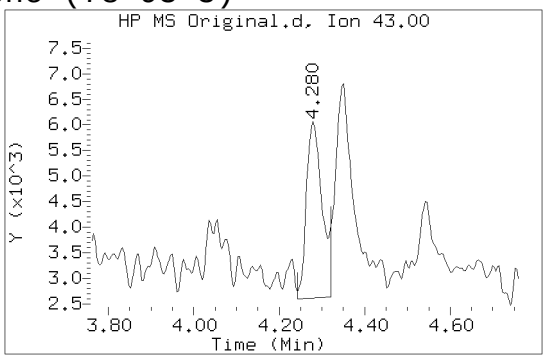
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LabSampID : VSTD002

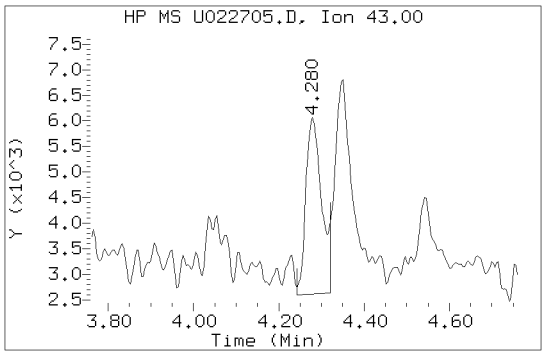
2-Butanone (78-93-3)

Reason Code:

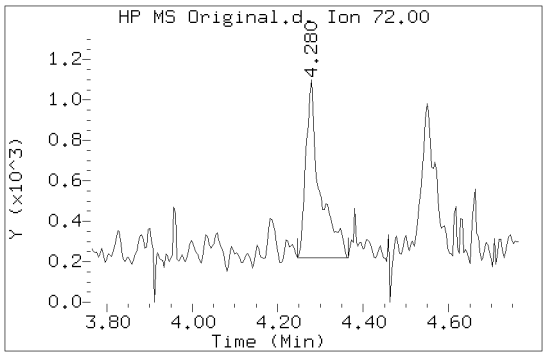
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tastan



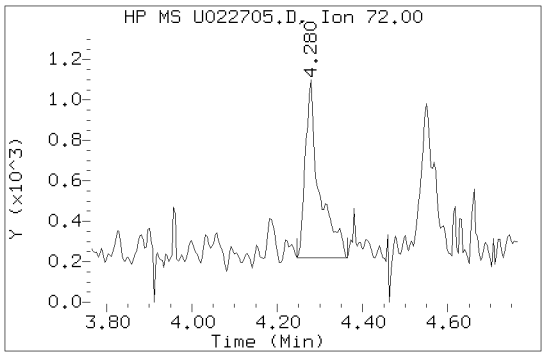
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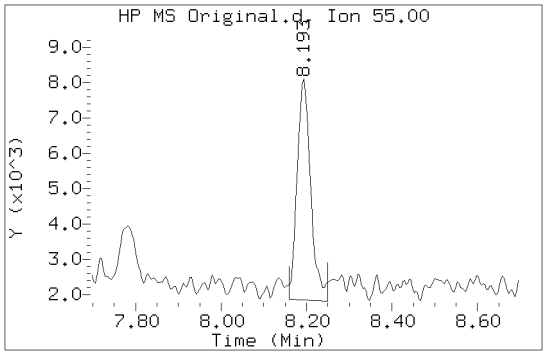
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tas



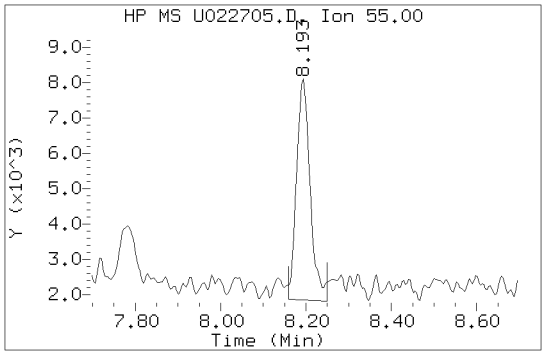
1-Chlorohexane (544-10-5)

Reason Code:

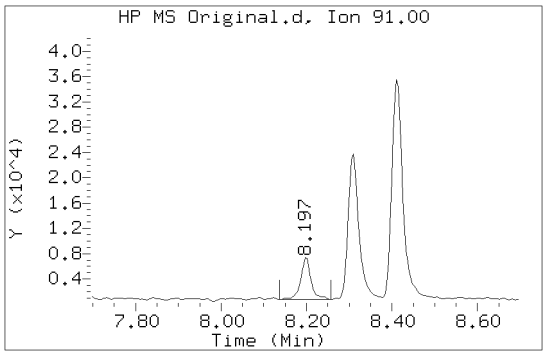
BEFORE
MASS
146
AREA
20933
HEIGHT
11782
27-Feb-2024
14:13
firat
tastan



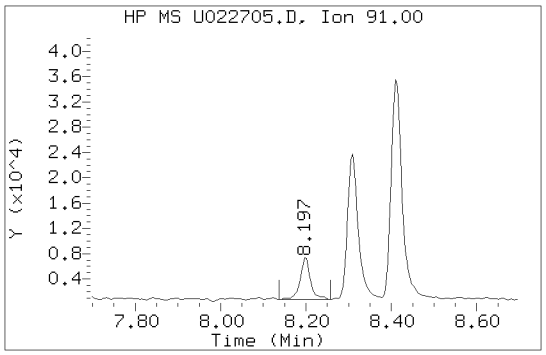
AFTER
MASS
55
AREA
14124
HEIGHT
6261
04-Mar-2024
16:04
firat
tas



BEFORE
MASS
111
AREA
7775
HEIGHT
4487
27-Feb-2024
14:13
firat
tastan



AFTER
MASS
91
AREA
11585
HEIGHT
6562
04-Mar-2024
16:04
firat
tas



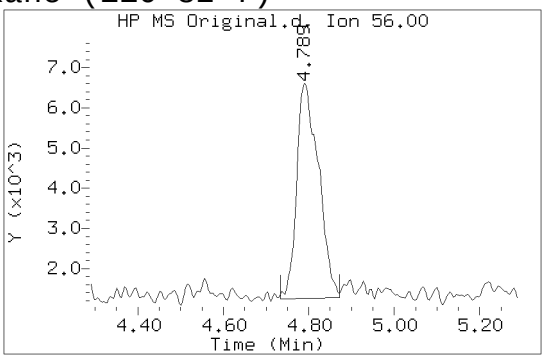
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Inj Date : 27-FEB-2024 11:19
InstruID : VOA9.i
LabSampID : VSTD002

Cyclohexane (110-82-7)

Reason Code:

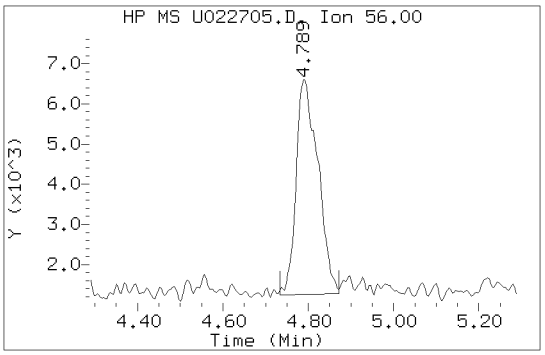
BEFORE

MASS
225
AREA
5877
HEIGHT
3771
27-Feb-2024
14:13
firat
tastan



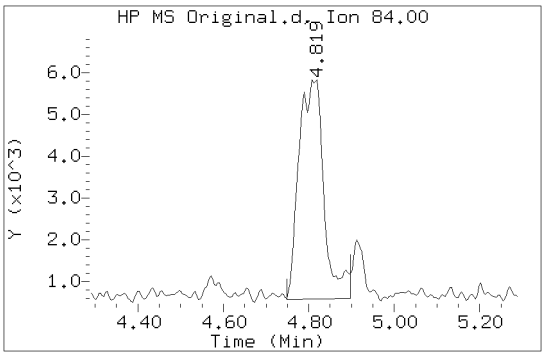
AFTER

MASS
56
AREA
19250
HEIGHT
5340
04-Mar-2024
16:04
firat
tas



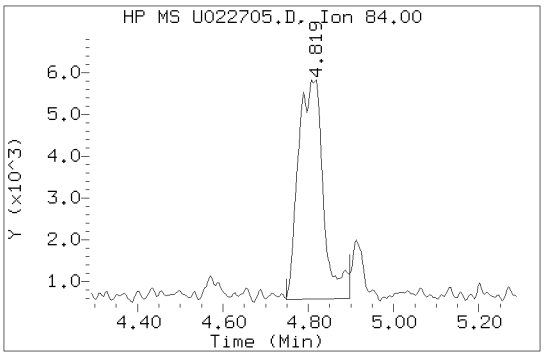
BEFORE

MASS
223
AREA
3736
HEIGHT
2461
27-Feb-2024
14:13
firat
tastan



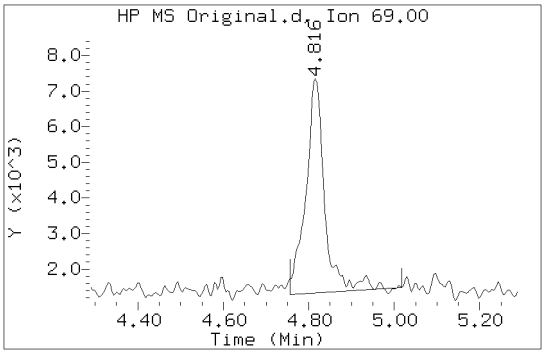
AFTER

MASS
84
AREA
21537
HEIGHT
5236
04-Mar-2024
16:04
firat
tas



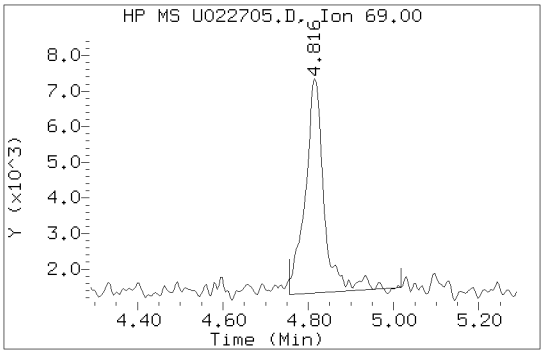
BEFORE

MASS
227
AREA
3540
HEIGHT
2212
27-Feb-2024
14:13
firat
tastan



AFTER

MASS
69
AREA
18572
HEIGHT
6021
04-Mar-2024
16:04
firat
tas

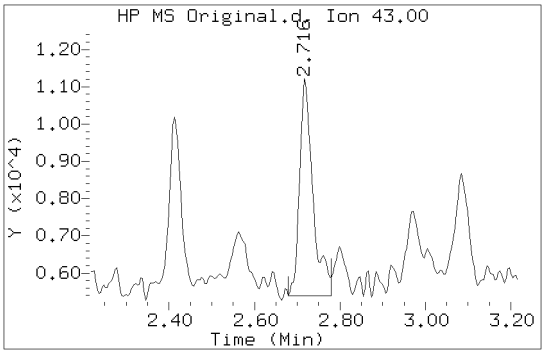


Methyl Acetate (79-20-9)

Reason Code:

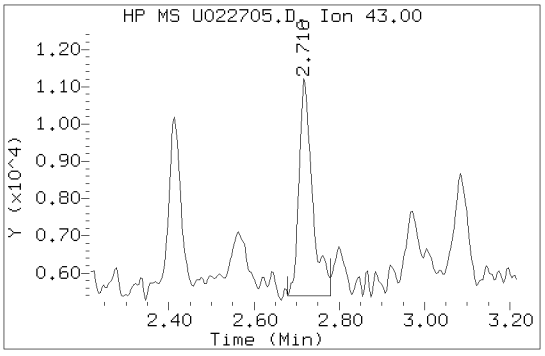
BEFORE

MASS
96
AREA
17471
HEIGHT
9292
27-Feb-2024
14:13
firat
tastan



AFTER

MASS
43
AREA
12998
HEIGHT
5827
04-Mar-2024
16:04
firat
tas



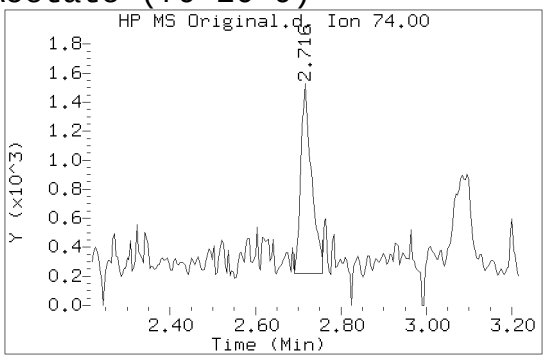
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Inj Date : 27-FEB-2024 11:19
InstruID : VOA9.i
LabSampID : VSTD002

Methyl Acetate (79-20-9)

Reason Code:

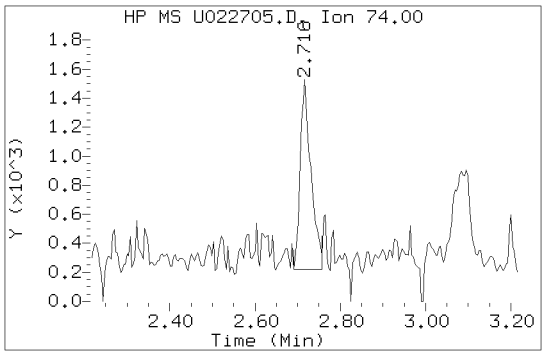
BEFORE

MASS
61
AREA
0
HEIGHT
0
27-Feb-2024
14:13
firat
tastan



AFTER

MASS
74
AREA
2331
HEIGHT
1305
04-Mar-2024
16:04
firat
tas

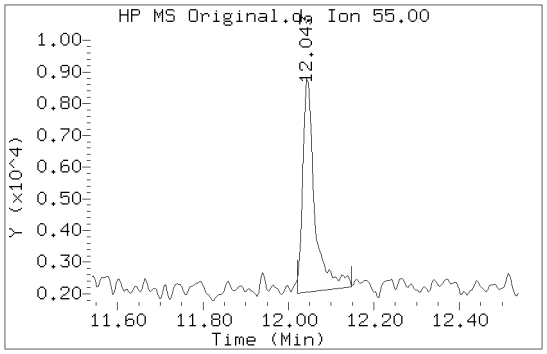


2-Ethylhexyl Acrylate (103-11-7)

Reason Code:

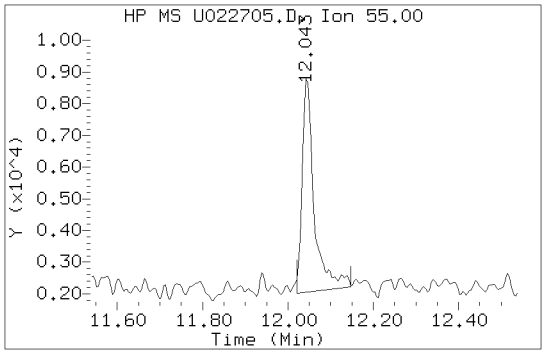
BEFORE

MASS
53
AREA
2647
HEIGHT
1755
27-Feb-2024
14:13
firat
tastan



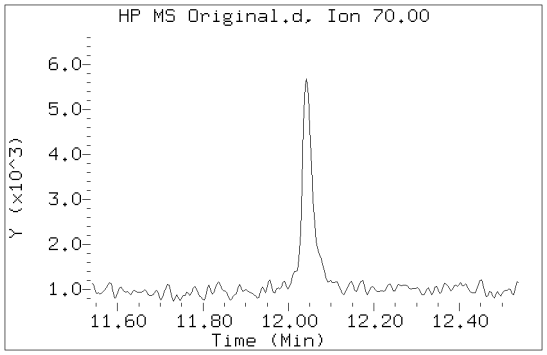
AFTER

MASS
55
AREA
13390
HEIGHT
6737
04-Mar-2024
16:04
firat
tas



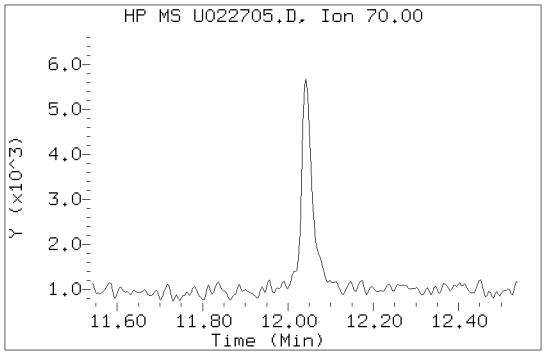
BEFORE

MASS
88
AREA
0
HEIGHT
0
27-Feb-2024
14:13
firat
tastan



AFTER

MASS
70
AREA
2989
HEIGHT
356
04-Mar-2024
16:04
firat
tas

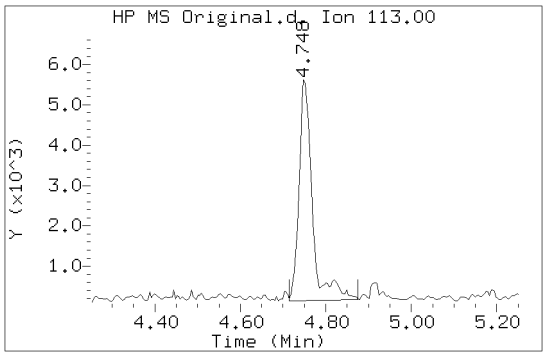


Dibromofluoromethane (1868-53-7)

Reason Code:

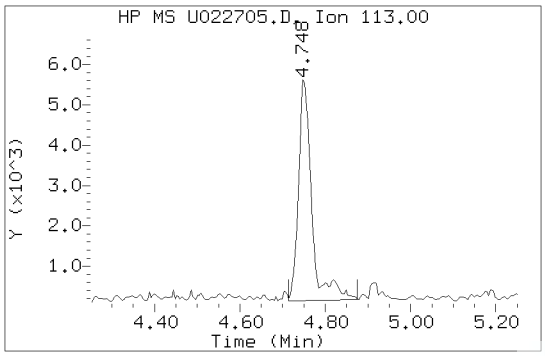
BEFORE

MASS
43
AREA
12222
HEIGHT
4002
27-Feb-2024
14:13
firat
tastan



AFTER

MASS
113
AREA
12052
HEIGHT
5468
04-Mar-2024
16:04
firat
tas



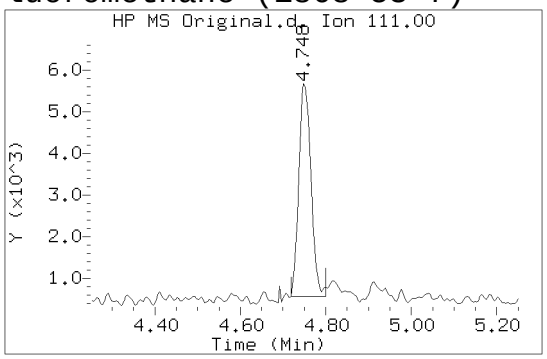
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Inj Date : 27-FEB-2024 11:19
InstruID : VOA9.i
LabSampID : VSTD002

Dibromofluoromethane (1868-53-7)

Reason Code:

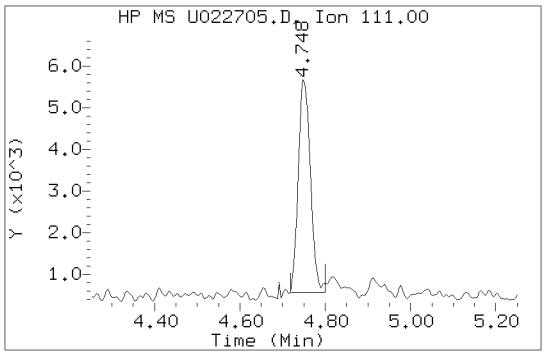
BEFORE

MASS
61
AREA
989
HEIGHT
513
27-Feb-2024
14:13
firat
tastan



AFTER

MASS
111
AREA
10356
HEIGHT
5101
04-Mar-2024
16:04
firat
tas



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240227.b\U022706.D Page 1
Report Date: 04-Mar-2024 16:05

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240227.b\U022706.D
Lab Smp Id: VSTD005 Client Smp ID: VSTD005
Inj Date : 27-FEB-2024 11:41
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD005;VSTD005;1;5;;
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa9.i\U240227.b\8260C.m
Meth Date : 04-Mar-2024 16:05 VOA9.i Quant Type: ISTD
Cal Date : 27-FEB-2024 11:19 Cal File: U022705.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 08260V9.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.815	4.815	(1.000)	500297	50.0000	
2	Dichlorodifluoromethane	85	1.156	1.156	(0.240)	21278	5.00000	4.46
3	Chloromethane	50	1.295	1.295	(0.269)	27082	5.00000	4.57
5	Vinyl Chloride	62	1.374	1.374	(0.285)	25049	5.00000	4.45
6	Bromomethane	94	1.617	1.617	(0.336)	15545	5.00000	5.25
7	Chloroethane	64	1.696	1.696	(0.352)	18141	5.00000	4.67
8	Trichlorofluoromethane	101	1.895	1.895	(0.394)	32029	5.00000	4.56
9	Acrolein	56	2.262	2.262	(0.470)	3340	10.0000	14.60(M)
10	Acetone	43	1.959	1.959	(0.407)	32564	10.0000	10.72
11	1,1-Dichloroethene	96	2.330	2.330	(0.484)	19233	5.00000	4.53
15	Iodomethane	142	2.465	2.465	(0.512)	28238	10.0000	11.14
16	Acrylonitrile	53	3.064	3.064	(0.636)	24097	10.0000	13.30
17	Methylene Chloride	84	2.791	2.791	(0.580)	27897	5.00000	6.43
18	Methyl tert-butyl ether	73	3.079	3.079	(0.640)	72506	5.00000	5.13
19	Carbon Disulfide	76	2.517	2.517	(0.523)	78797	10.0000	9.14
20	trans-1,2-Dichloroethene	96	3.057	3.057	(0.635)	21427	5.00000	4.35
21	Vinyl Acetate	43	3.608	3.608	(0.749)	122842	10.0000	10.32
22	1,1-Dichloroethane	63	3.511	3.511	(0.729)	36413	5.00000	4.68
24	2-Butanone	43	4.268	4.268	(0.886)	23689	10.0000	11.73
26	2,2-Dichloropropane	77	4.182	4.182	(0.868)	33635	5.00000	4.69

27 cis-1,2-Dichloroethene	96	4.197	4.197 (0.872)	22772	5.00000	4.54
28 Chloroform	83	4.571	4.571 (0.949)	39286	5.00000	4.71

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240227.b\U022706.D Page 2
Report Date: 04-Mar-2024 16:05

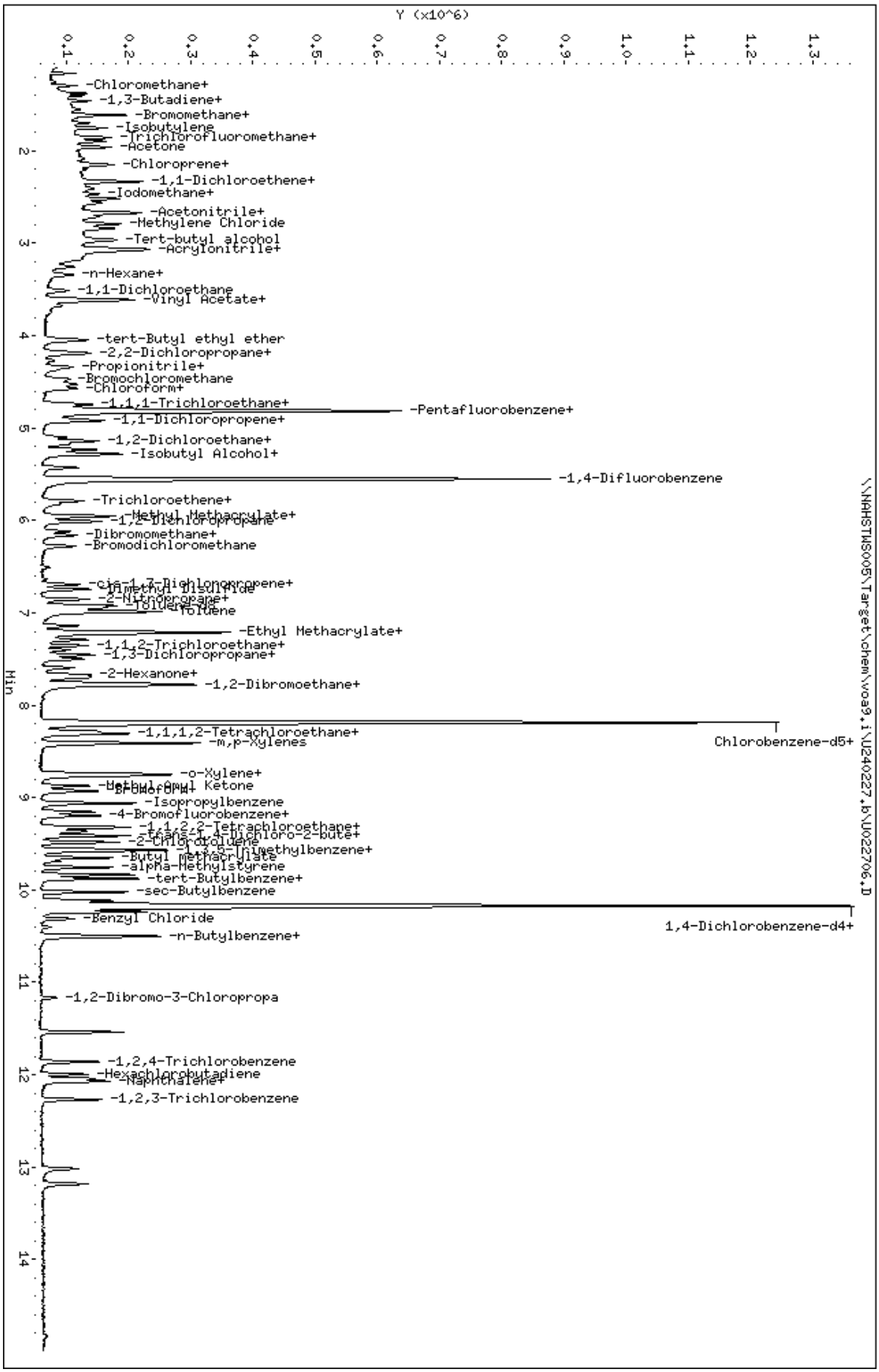
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	29 Bromochloromethane	128	4.466	4.466	(0.928)	12363	5.00000	4.85
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	23664	5.00000	5.16(M)
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	36052	5.00000	4.86(M)
	32 1,1-Dichloropropene	75	4.924	4.924	(0.887)	29136	5.00000	4.67
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	33077	5.00000	4.68
	34 Carbon Tetrachloride	117	4.913	4.913	(0.885)	30070	5.00000	5.98
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	25324	5.00000	4.72
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	738188	50.0000	
	37 Benzene	78	5.137	5.137	(0.926)	86422	5.00000	4.72
	38 Trichloroethene	130	5.790	5.790	(1.043)	24834	5.00000	4.64
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	30556	5.00000	4.41
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	20893	5.00000	4.27
	44 Dibromomethane	93	6.120	6.120	(1.103)	15207	5.00000	5.05
	45 4-Methyl-2-Pentanone	43	6.854	6.854	(0.837)	57678	10.0000	11.29
	46 cis-1,3-Dichloropropene	75	6.693	6.693	(1.206)	34918	5.00000	4.58
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	665361	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	82440	5.00000	4.32
	50 Toluene	91	6.982	6.982	(0.853)	93826	5.00000	4.57
	51 trans-1,3-Dichloropropene	75	7.199	7.199	(1.297)	27340	5.00000	4.25
	52 2-Hexanone	43	7.705	7.705	(0.941)	39494	10.0000	9.84
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	18171	5.00000	4.79
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	36670	5.00000	4.50
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	26191	5.00000	4.75
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	19868	5.00000	4.55
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	22579	5.00000	4.91
	58 1-Chlorohexane	55	8.196	8.196	(1.477)	26917	5.00000	6.34(M)
	59 Chlorobenzene	112	8.211	8.211	(1.003)	63669	5.00000	4.69
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	22821	5.00000	4.59
	61 Ethylbenzene	106	8.309	8.309	(1.015)	31651	5.00000	4.60
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	81116	10.0000	9.30
	63 o-Xylene	106	8.747	8.747	(1.069)	39546	5.00000	4.64
	64 Styrene	104	8.762	8.762	(1.071)	67757	5.00000	4.48
	66 Bromoform	173	8.920	8.920	(1.090)	19905	5.00000	4.57
	67 Isopropylbenzene	105	9.062	9.062	(1.107)	99551	5.00000	4.54
	68 1,1,2,2-Tetrachloroethane	83	9.328	9.328	(0.917)	33533	5.00000	5.22
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	31746	5.00000	4.63
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	350704	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	33733	5.00000	4.97
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	113222	5.00000	4.82
	74 Bromobenzene	156	9.321	9.321	(0.916)	27626	5.00000	4.53
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	86389	5.00000	4.65
	76 2-Chlorotoluene	91	9.482	9.482	(0.932)	72856	5.00000	4.80
	77 4-Chlorotoluene	91	9.576	9.576	(0.941)	77682	5.00000	4.43
	78 tert-Butylbenzene	119	9.835	9.835	(0.967)	71000	5.00000	4.65
	79 1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	84955	5.00000	4.67
	81 sec-Butylbenzene	105	10.022	10.022	(0.985)	95037	5.00000	4.71
	82 p-Isopropyltoluene	119	10.146	10.146	(0.997)	85784	5.00000	4.62
	83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	47924	5.00000	4.56
	84 1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	52601	5.00000	4.84
	87 n-Butylbenzene	91	10.494	10.494	(1.032)	70472	5.00000	4.57
	88 1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	50346	5.00000	4.74
	89 1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	5364	5.00000	4.44

90 1,2,4-Trichlorobenzene	180	11.859	11.859 (1.166)	33334	5.00000	4.68
91 Hexachlorobutadiene	225	11.998	11.998 (1.179)	14687	5.00000	4.55

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	92 Naphthalene	128	12.069	12.069	(1.186)	87389	5.00000	5.01
	93 1,2,3-Trichlorobenzene	180	12.267	12.267	(1.206)	32789	5.00000	4.83
M	94 1,2-Dichloroethylene (total)	96				44199	10.0000	
M	95 Xylenes (total)	106				120662	15.0000	
	135 1,4-Dioxane	88	6.168	6.168	(1.281)	7940	100.000	113.16
	141 Cyclohexane	56	4.785	4.785	(0.994)	40025	5.00000	6.57
	138 Freon TF	101	2.333	2.333	(0.485)	17370	5.00000	4.57
	140 1,3-Butadiene	54	1.400	1.400	(0.291)	8553	5.00000	5.51
	147 Methylcyclohexane	55	5.951	5.951	(1.072)	65745	5.00000	5.96
	146 Methyl Acetate	43	2.712	2.712	(0.563)	34765	5.00000	5.64(M)
	162 Butyl acrylate	55	8.736	8.736	(1.067)	47373	5.00000	4.15(a)
	203 2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	32586	5.00000	4.20(aM)
	148 Tert-Butyl alcohol	59	2.963	2.963	(0.615)	74281	100.000	107.40
	149 Isopropyl Alcohol	45	2.558	2.558	(0.531)	41790	100.000	103.57

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



Data File: \\NAHSTMS005\Target\chem\voa9.i\U240227.b\U022706.D
Date : 27-FEB-2024 11:41
Client ID: VSTD005
Sample Info: VSTD005;VSTD005;1;5;;
Purge Volume: 5.0
Column phase: DB624

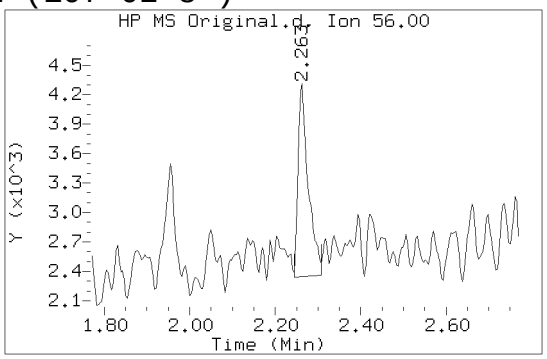
Instrument: VOA9.i
Operator: FT
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240227.b\U022706.D
Inj Date : 27-FEB-2024 11:41
InstruID : VOA9.i
LabSampID : VSTD005

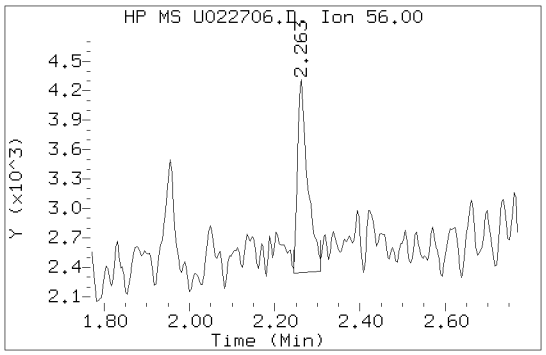
Acrolein (107-02-8)

Reason Code:

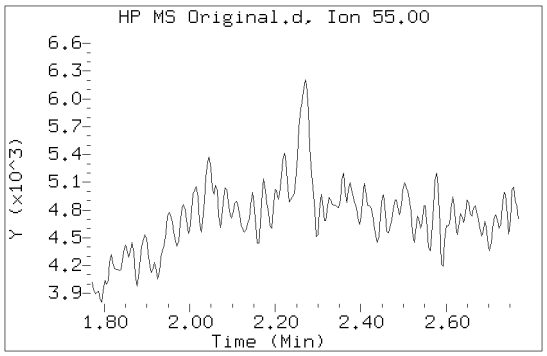
BEFORE
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142
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HEIGHT
17303
27-Feb-2024
13:29
firat
tastan



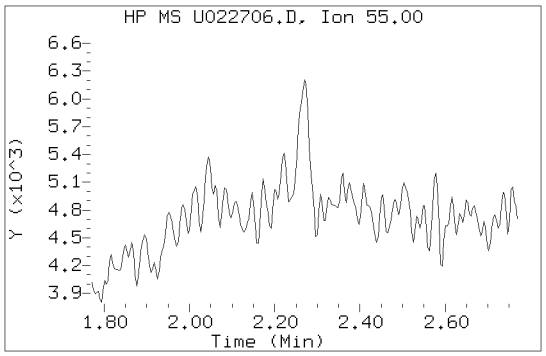
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AREA
3340
HEIGHT
1965
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16:04
firat
tas



BEFORE
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AREA
11347
HEIGHT
6831
27-Feb-2024
13:29
firat
tastan



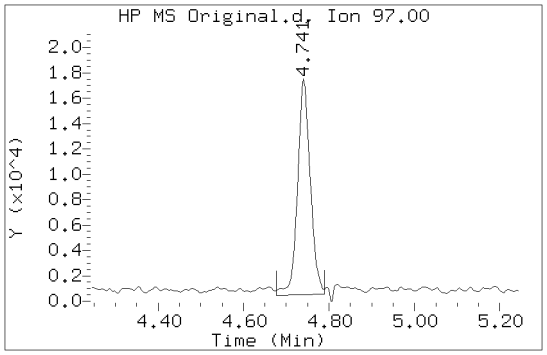
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16:04
firat
tas



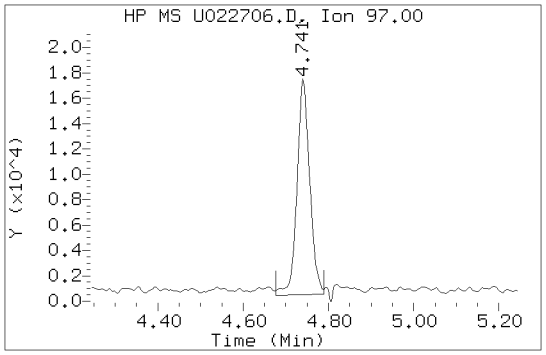
1,1,1-Trichloroethane (71-55-6)

Reason Code:

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AREA
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HEIGHT
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27-Feb-2024
13:29
firat
tastan



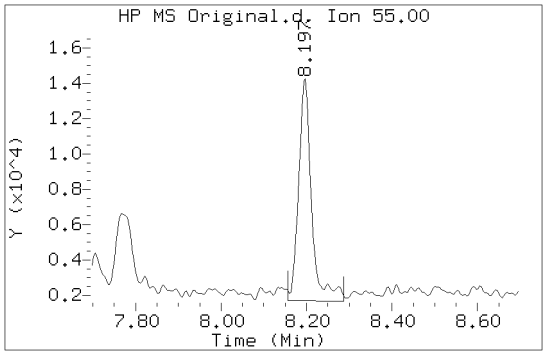
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AREA
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HEIGHT
17011
04-Mar-2024
16:04
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tas



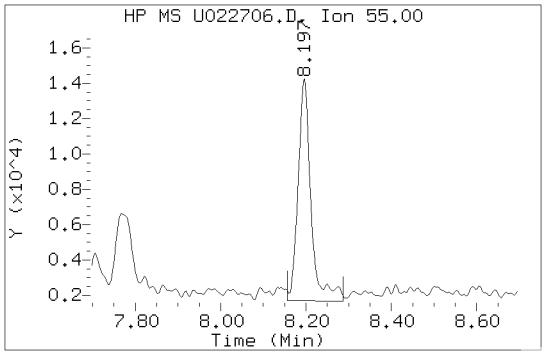
1-Chlorohexane (544-10-5)

Reason Code:

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firat
tastan



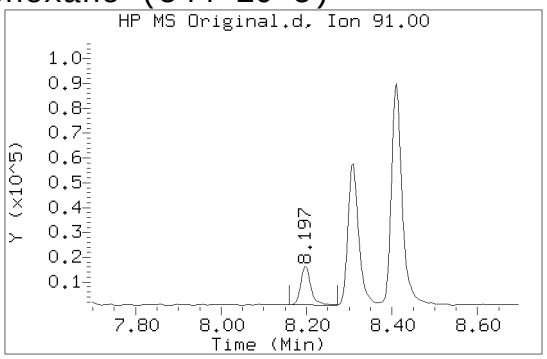
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HEIGHT
12541
04-Mar-2024
16:04
firat
tas



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InstruID : VOA9.i
LabSampID : VSTD005

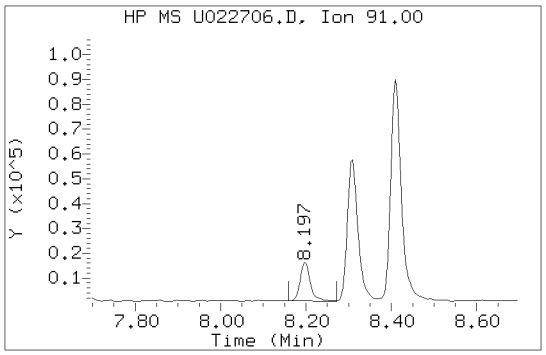
1-Chlorohexane (544-10-5)

BEFORE
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AREA
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HEIGHT
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27-Feb-2024
13:29
firat
tastan



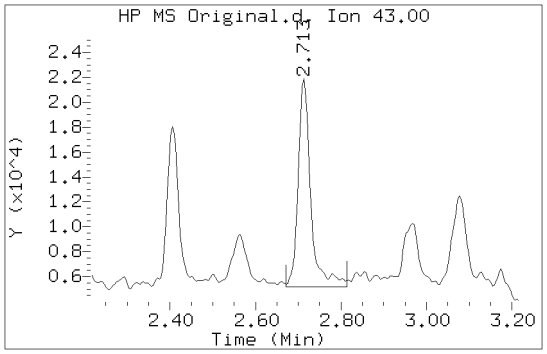
Reason Code:

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AREA
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HEIGHT
15481
04-Mar-2024
16:04
firat
tas



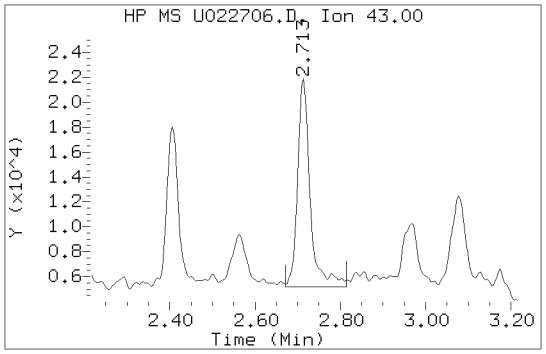
Methyl Acetate (79-20-9)

BEFORE
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AREA
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HEIGHT
22124
27-Feb-2024
13:29
firat
tastan

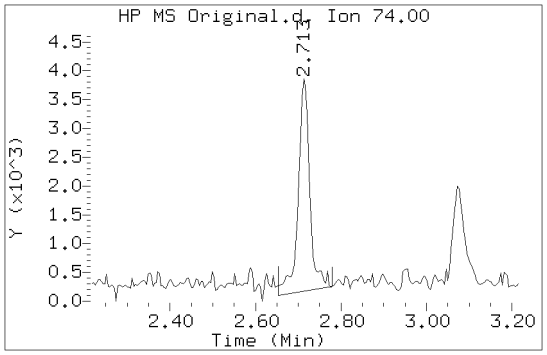


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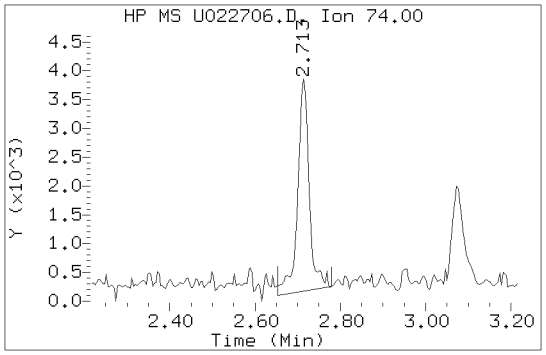
AFTER
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AREA
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HEIGHT
16716
04-Mar-2024
16:04
firat
tas



BEFORE
MASS
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AREA
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HEIGHT
0
27-Feb-2024
13:29
firat
tastan

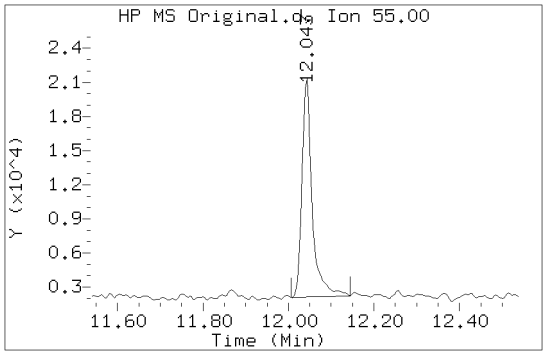


AFTER
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HEIGHT
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04-Mar-2024
16:04
firat
tas



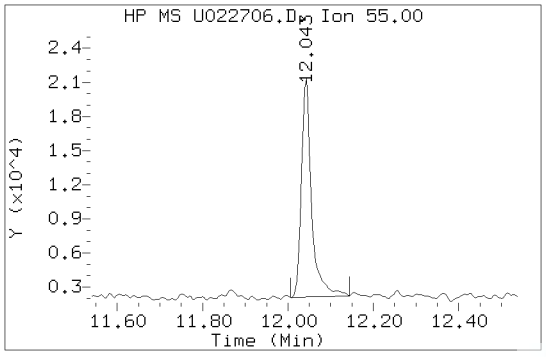
2-Ethylhexyl Acrylate (103-11-7)

BEFORE
MASS
53
AREA
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HEIGHT
3932
27-Feb-2024
13:29
firat
tastan



Reason Code:

AFTER
MASS
55
AREA
32586
HEIGHT
19171
04-Mar-2024
16:04
firat
tas



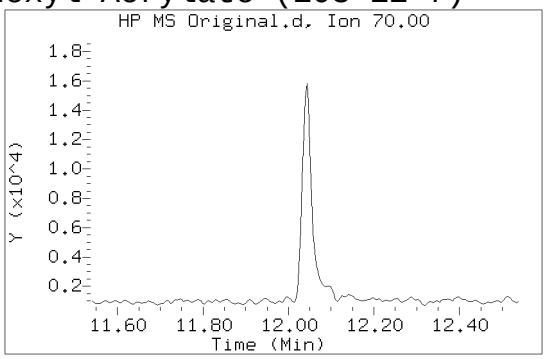
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Inj Date : 27-FEB-2024 11:41
InstruID : VOA9.i
LabSampID : VSTD005

2-Ethylhexyl Acrylate (103-11-7)

Reason Code:

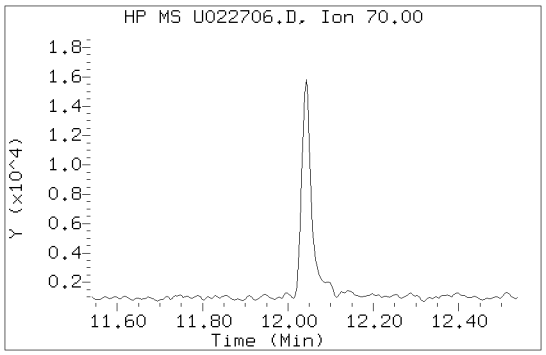
BEFORE

MASS
88
AREA
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HEIGHT
407
27-Feb-2024
13:29
firat
tastan



AFTER

MASS
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AREA
0
HEIGHT
0
04-Mar-2024
16:04
firat
tas

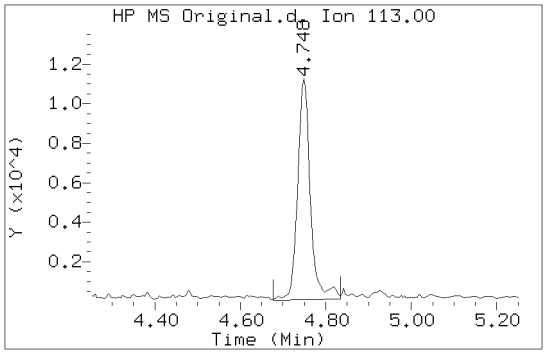


Dibromofluoromethane (1868-53-7)

Reason Code:

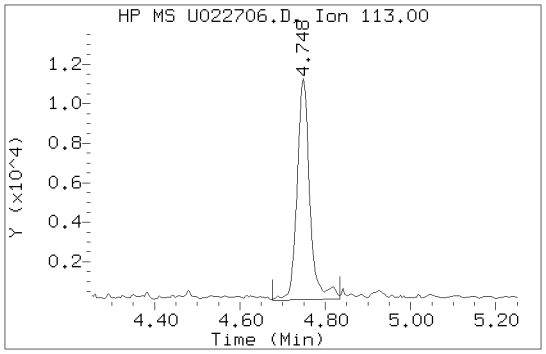
BEFORE

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HEIGHT
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27-Feb-2024
13:29
firat
tastan



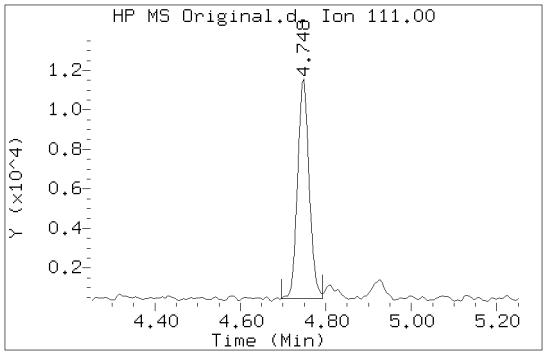
AFTER

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AREA
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04-Mar-2024
16:04
firat
tas



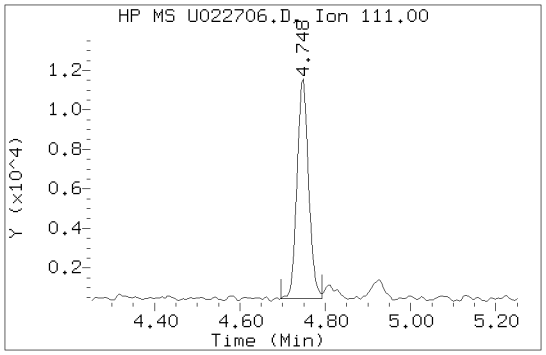
BEFORE

MASS
61
AREA
3353
HEIGHT
1516
27-Feb-2024
13:29
firat
tastan



AFTER

MASS
111
AREA
21280
HEIGHT
11126
04-Mar-2024
16:04
firat
tas



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240227.b\U022707.D Page 1
Report Date: 04-Mar-2024 16:05

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240227.b\U022707.D
Lab Smp Id: VSTD020 Client Smp ID: VSTD020
Inj Date : 27-FEB-2024 12:03
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD020;VSTD020;1;6;;
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa9.i\U240227.b\8260C.m
Meth Date : 04-Mar-2024 16:05 VOA9.i Quant Type: ISTD
Cal Date : 27-FEB-2024 11:41 Cal File: U022706.D
Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 08260V9.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.815	4.815	(1.000)	503302	50.0000	
2	Dichlorodifluoromethane	85	1.160	1.160	(0.241)	96820	20.0000	20.19
3	Chloromethane	50	1.295	1.295	(0.269)	112199	20.0000	18.85
5	Vinyl Chloride	62	1.374	1.374	(0.285)	114644	20.0000	20.26
6	Bromomethane	94	1.621	1.621	(0.337)	54578	20.0000	21.62
7	Chloroethane	64	1.700	1.700	(0.353)	78045	20.0000	19.99
8	Trichlorofluoromethane	101	1.895	1.895	(0.394)	151794	20.0000	21.50
9	Acrolein	56	2.262	2.262	(0.470)	9452	40.0000	40.26(M)
10	Acetone	43	1.962	1.962	(0.408)	107289	40.0000	35.10
11	1,1-Dichloroethene	96	2.333	2.333	(0.485)	86349	20.0000	20.25
15	Iodomethane	142	2.468	2.468	(0.513)	178317	40.0000	38.46
16	Acrylonitrile	53	3.064	3.064	(0.636)	75172	40.0000	39.61
17	Methylene Chloride	84	2.791	2.791	(0.580)	106090	20.0000	21.84
18	Methyl tert-butyl ether	73	3.079	3.079	(0.640)	263846	20.0000	18.55
19	Carbon Disulfide	76	2.517	2.517	(0.523)	354815	40.0000	40.94
20	trans-1,2-Dichloroethene	96	3.057	3.057	(0.635)	94259	20.0000	19.05
21	Vinyl Acetate	43	3.608	3.608	(0.749)	452114	40.0000	37.78
22	1,1-Dichloroethane	63	3.514	3.514	(0.730)	164801	20.0000	21.05
24	2-Butanone	43	4.260	4.260	(0.885)	80070	40.0000	39.43
26	2,2-Dichloropropane	77	4.182	4.182	(0.868)	149143	20.0000	20.71

27 cis-1,2-Dichloroethene	96	4.197	4.197 (0.872)	103921	20.0000	20.60
28 Chloroform	83	4.571	4.571 (0.949)	171658	20.0000	20.46

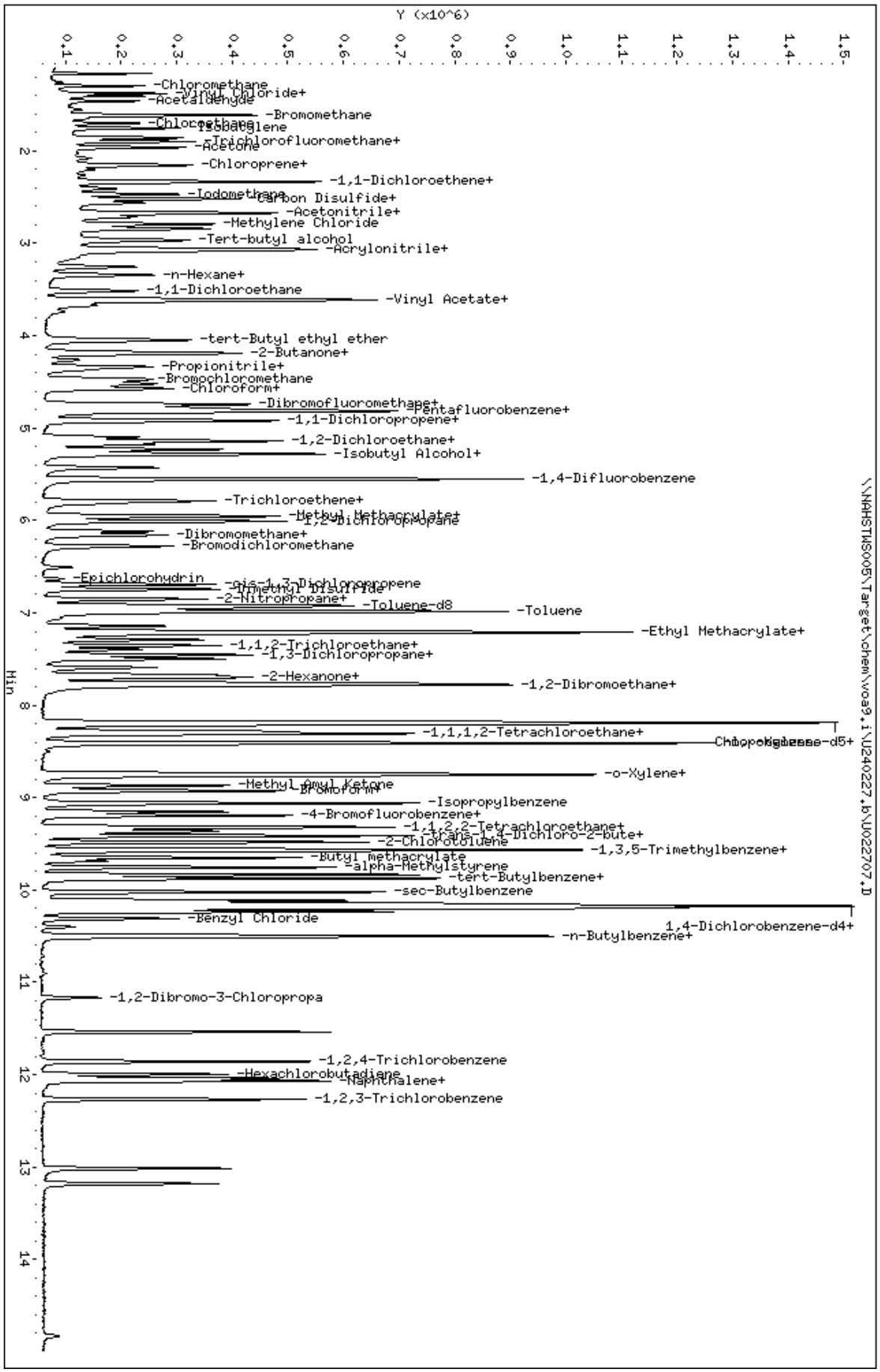
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	29 Bromochloromethane	128	4.466	4.466	(0.928)	54304	20.0000	21.21
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	95758	20.0000	19.69
	31 1,1,1-Trichloroethane	97	4.744	4.744	(0.985)	153622	20.0000	20.58
	32 1,1-Dichloropropene	75	4.924	4.924	(0.887)	125340	20.0000	20.50
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	140330	20.0000	20.27
	34 Carbon Tetrachloride	117	4.913	4.913	(0.885)	129437	20.0000	20.23
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	116920	20.0000	19.99
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	724351	50.0000	
	37 Benzene	78	5.137	5.137	(0.925)	372529	20.0000	20.76
	38 Trichloroethene	130	5.790	5.790	(1.043)	109388	20.0000	20.84
	39 Bromodichloromethane	83	6.277	6.277	(1.130)	138220	20.0000	20.37
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	97102	20.0000	20.25
	44 Dibromomethane	93	6.120	6.120	(1.102)	62128	20.0000	21.06
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	205805	40.0000	40.31
	46 cis-1,3-Dichloropropene	75	6.689	6.689	(1.205)	159183	20.0000	21.29
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	665168	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	364279	20.0000	19.12
	50 Toluene	91	6.982	6.982	(0.853)	415801	20.0000	20.28
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	137126	20.0000	21.77
	52 2-Hexanone	43	7.705	7.705	(0.941)	166574	40.0000	41.53
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	74920	20.0000	19.79
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	163054	20.0000	20.04
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	113607	20.0000	20.63
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	89140	20.0000	20.42
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	93894	20.0000	20.44
	58 1-Chlorohexane	55	8.196	8.196	(1.476)	93375	20.0000	21.31
	59 Chlorobenzene	112	8.211	8.211	(1.003)	276272	20.0000	20.37
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	104075	20.0000	20.94
	61 Ethylbenzene	106	8.309	8.309	(1.015)	142706	20.0000	20.76
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	360444	40.0000	41.33
	63 o-Xylene	106	8.747	8.747	(1.069)	177766	20.0000	20.89
	64 Styrene	104	8.762	8.762	(1.071)	313424	20.0000	20.76
	66 Bromoform	173	8.916	8.916	(1.089)	85572	20.0000	19.69
	67 Isopropylbenzene	105	9.062	9.062	(1.107)	448143	20.0000	20.48
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	132770	20.0000	20.20
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	137928	20.0000	20.09
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	359011	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.921)	138808	20.0000	20.01
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	486326	20.0000	20.23
	74 Bromobenzene	156	9.317	9.317	(0.916)	128615	20.0000	20.62
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	379935	20.0000	20.00
	76 2-Chlorotoluene	91	9.482	9.482	(0.933)	309147	20.0000	19.91
	77 4-Chlorotoluene	91	9.576	9.576	(0.942)	358514	20.0000	19.98
	78 tert-Butylbenzene	119	9.835	9.835	(0.967)	315350	20.0000	20.21
	79 1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	373327	20.0000	20.06
	81 sec-Butylbenzene	105	10.022	10.022	(0.986)	419055	20.0000	20.31
	82 p-Isopropyltoluene	119	10.146	10.146	(0.998)	386556	20.0000	20.36
	83 1,3-Dichlorobenzene	146	10.116	10.116	(0.995)	224165	20.0000	20.83
	84 1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	227007	20.0000	20.40
	87 n-Butylbenzene	91	10.491	10.491	(1.032)	327677	20.0000	20.78
	88 1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	223043	20.0000	20.53
	89 1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	23400	20.0000	18.93

90 1,2,4-Trichlorobenzene	180	11.859	11.859 (1.166)	154385	20.0000	21.21
91 Hexachlorobutadiene	225	11.998	11.998 (1.180)	64131	20.0000	19.44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	92 Naphthalene	128	12.065	12.065	(1.187)	377348	20.0000	21.14
	93 1,2,3-Trichlorobenzene	180	12.267	12.267	(1.206)	148216	20.0000	21.33
M	94 1,2-Dichloroethylene (total)	96				198180	40.0000	
M	95 Xylenes (total)	106				538210	60.0000	
	135 1,4-Dioxane	88	6.165	6.165	(1.280)	27036	400.000	387.96
	141 Cyclohexane	56	4.785	4.785	(0.994)	142541	20.0000	20.70
	138 Freon TF	101	2.337	2.337	(0.485)	81958	20.0000	21.43
	140 1,3-Butadiene	54	1.404	1.404	(0.292)	41675	20.0000	21.43
	147 Methylcyclohexane	55	5.947	5.947	(1.071)	244449	20.0000	19.35
	146 Methyl Acetate	43	2.712	2.712	(0.563)	111710	20.0000	18.03
	162 Butyl acrylate	55	8.732	8.732	(1.067)	197300	20.0000	17.32
	203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	145371	20.0000	18.31
	148 Tert-Butyl alcohol	59	2.963	2.963	(0.615)	253894	400.000	364.91
	149 Isopropyl Alcohol	45	2.558	2.558	(0.531)	151380	400.000	372.94

QC Flag Legend

M - Compound response manually integrated.



Data File: \\NAHSTMS005\Target\chem\woa9.i\U240227.b\U022707.D
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Client ID: VSTD020
Sample Info: VSTD020;VSTD020;1;6;;
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Column phase: DB624

Instrument: WOA9.i
Operator: FT
Column diameter: 0.18

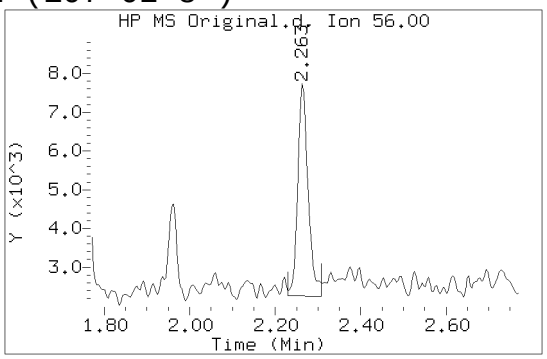
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LabSampID : VSTD020

Acrolein (107-02-8)

Reason Code:

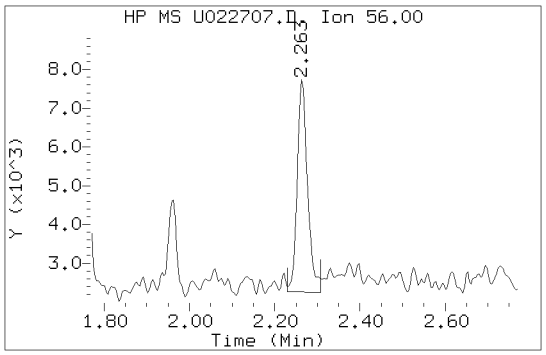
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27-Feb-2024
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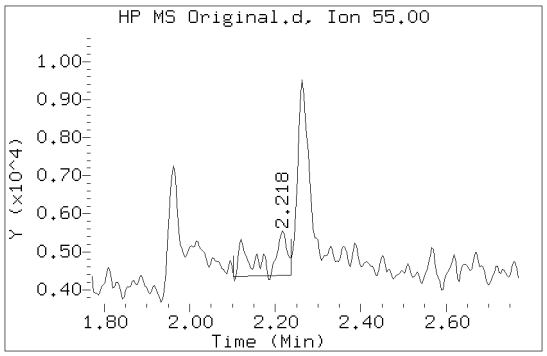
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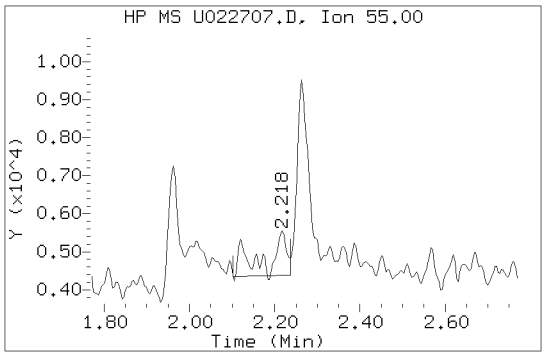
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AFTER

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HEIGHT
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04-Mar-2024
16:04
firat
tas



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240227.b\U022708.D Page 1
Report Date: 04-Mar-2024 16:05

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240227.b\U022708.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 27-FEB-2024 12:25
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD050;VSTD050;1;7;;
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa9.i\U240227.b\8260C.m
Meth Date : 04-Mar-2024 16:05 VOA9.i Quant Type: ISTD
Cal Date : 27-FEB-2024 12:03 Cal File: U022707.D
Als bottle: 8 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 08260V9.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

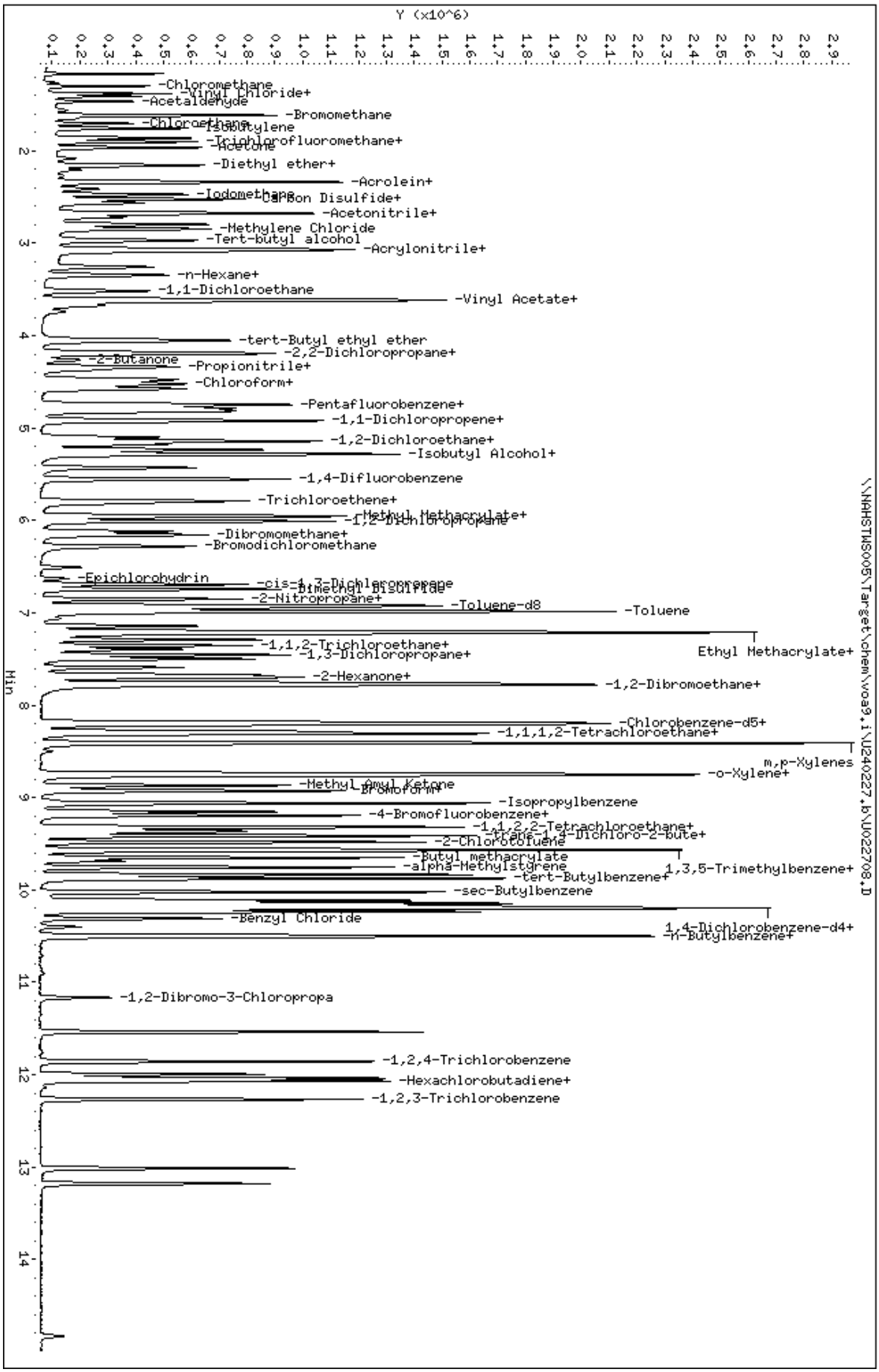
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.819	4.819	(1.000)	489540	50.0000	
2	Dichlorodifluoromethane	85	1.164	1.164	(0.242)	229074	50.0000	49.12
3	Chloromethane	50	1.299	1.299	(0.270)	255904	50.0000	44.20
5	Vinyl Chloride	62	1.378	1.378	(0.286)	261469	50.0000	47.51
6	Bromomethane	94	1.621	1.621	(0.336)	128069	50.0000	51.66
7	Chloroethane	64	1.700	1.700	(0.353)	175365	50.0000	46.19
8	Trichlorofluoromethane	101	1.899	1.899	(0.394)	339086	50.0000	49.38
9	Acrolein	56	2.266	2.266	(0.470)	18785	100.000	81.80
10	Acetone	43	1.962	1.962	(0.407)	266657	100.000	89.71
11	1,1-Dichloroethene	96	2.337	2.337	(0.485)	192992	50.0000	46.54
15	Iodomethane	142	2.468	2.468	(0.512)	456574	100.000	91.53
16	Acrylonitrile	53	3.064	3.064	(0.636)	182685	100.000	97.78
17	Methylene Chloride	84	2.795	2.795	(0.580)	223553	50.0000	46.28
18	Methyl tert-butyl ether	73	3.079	3.079	(0.639)	645653	50.0000	46.68
19	Carbon Disulfide	76	2.521	2.521	(0.523)	804324	100.000	95.42
20	trans-1,2-Dichloroethene	96	3.061	3.061	(0.635)	218678	50.0000	45.44
21	Vinyl Acetate	43	3.608	3.608	(0.749)	1070706	100.000	91.99
22	1,1-Dichloroethane	63	3.514	3.514	(0.729)	375452	50.0000	49.32
24	2-Butanone	43	4.260	4.260	(0.884)	177150	100.000	89.69
26	2,2-Dichloropropane	77	4.185	4.185	(0.869)	344478	50.0000	49.18

27 cis-1,2-Dichloroethene	96	4.197	4.197 (0.871)	237055	50.0000	48.31
28 Chloroform	83	4.575	4.575 (0.949)	389325	50.0000	47.71

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	29 Bromochloromethane	128	4.470	4.470	(0.928)	125856	50.0000	50.54
$	30 Dibromofluoromethane	113	4.748	4.748	(0.985)	236176	50.0000	49.37
	31 1,1,1-Trichloroethane	97	4.744	4.744	(0.984)	350380	50.0000	48.27
	32 1,1-Dichloropropene	75	4.924	4.924	(0.887)	292028	50.0000	48.54
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	325752	50.0000	47.80
	34 Carbon Tetrachloride	117	4.913	4.913	(0.885)	305223	50.0000	46.00
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	285747	50.0000	49.52
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	712992	50.0000	
	37 Benzene	78	5.141	5.141	(0.926)	858095	50.0000	48.58
	38 Trichloroethene	130	5.790	5.790	(1.043)	243206	50.0000	47.08
	39 Bromodichloromethane	83	6.277	6.277	(1.130)	314972	50.0000	47.16
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	224860	50.0000	47.65
	44 Dibromomethane	93	6.120	6.120	(1.102)	149226	50.0000	51.40
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	466757	100.000	92.45
	46 cis-1,3-Dichloropropene	75	6.689	6.689	(1.205)	371726	50.0000	50.52
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	657900	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	888401	50.0000	47.15
	50 Toluene	91	6.982	6.982	(0.853)	961785	50.0000	47.42
	51 trans-1,3-Dichloropropene	75	7.195	7.195	(1.296)	324298	50.0000	52.31
	52 2-Hexanone	43	7.705	7.705	(0.941)	402724	100.000	101.52
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	176826	50.0000	47.23
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	377857	50.0000	46.97
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	266740	50.0000	48.99
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	203815	50.0000	47.22
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	219448	50.0000	48.32
	58 1-Chlorohexane	55	8.196	8.196	(1.476)	192488	50.0000	44.16
	59 Chlorobenzene	112	8.208	8.208	(1.003)	635119	50.0000	47.36
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	243919	50.0000	49.62
	61 Ethylbenzene	106	8.305	8.305	(1.015)	330315	50.0000	48.59
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	840998	100.000	97.51
	63 o-Xylene	106	8.747	8.747	(1.069)	411289	50.0000	48.87
	64 Styrene	104	8.762	8.762	(1.071)	728444	50.0000	48.79
	66 Bromoform	173	8.916	8.916	(1.089)	208715	50.0000	48.56
	67 Isopropylbenzene	105	9.062	9.062	(1.107)	1050800	50.0000	48.56
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	305280	50.0000	45.84
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	339061	50.0000	49.91
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	363875	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	328933	50.0000	46.78
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	1130667	50.0000	46.42
	74 Bromobenzene	156	9.317	9.317	(0.916)	297754	50.0000	47.10
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	883180	50.0000	45.87
	76 2-Chlorotoluene	91	9.482	9.482	(0.932)	729088	50.0000	46.34
	77 4-Chlorotoluene	91	9.576	9.576	(0.941)	841512	50.0000	46.28
	78 tert-Butylbenzene	119	9.835	9.835	(0.967)	741593	50.0000	46.91
	79 1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	876794	50.0000	46.49
	81 sec-Butylbenzene	105	10.022	10.022	(0.985)	985681	50.0000	47.14
	82 p-Isopropyltoluene	119	10.146	10.146	(0.997)	911857	50.0000	47.40
	83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	529018	50.0000	48.51
	84 1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	543378	50.0000	48.19
	87 n-Butylbenzene	91	10.491	10.491	(1.031)	768749	50.0000	48.12
	88 1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	519456	50.0000	47.18
	89 1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	57456	50.0000	45.86

90 1,2,4-Trichlorobenzene	180	11.859	11.859 (1.166)	370645	50.0000	50.24
91 Hexachlorobutadiene	225	11.998	11.998 (1.179)	152127	50.0000	45.51

		QUANT SIG					AMOUNTS CAL-AMT	AMOUNTS ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
	92 Naphthalene	128	12.065	12.065	(1.186)	909171	50.0000	50.25
	93 1,2,3-Trichlorobenzene	180	12.267	12.267	(1.206)	350804	50.0000	49.82
M	94 1,2-Dichloroethylene (total)	96				455733	100.000	
M	95 Xylenes (total)	106				1252287	150.000	
	135 1,4-Dioxane	88	6.165	6.165	(1.279)	70221	1000.00	1016.28
	141 Cyclohexane	56	4.785	4.785	(0.993)	315151	50.0000	45.78
	138 Freon TF	101	2.337	2.337	(0.485)	187355	50.0000	50.38
	140 1,3-Butadiene	54	1.404	1.404	(0.291)	94115	50.0000	47.95
	147 Methylcyclohexane	55	5.947	5.947	(1.071)	616750	50.0000	47.81
	146 Methyl Acetate	43	2.716	2.716	(0.564)	257573	50.0000	42.75
	162 Butyl acrylate	55	8.732	8.732	(1.067)	533905	50.0000	47.40
	203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	394484	50.0000	49.02
	148 Tert-Butyl alcohol	59	2.967	2.967	(0.616)	621462	1000.00	918.31
	149 Isopropyl Alcohol	45	2.562	2.562	(0.532)	374043	1000.00	947.41



Data File: \\NAHSTMS005\Target\chem\voa9.i\U240227.b\U022708.D
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Column phase: DB624

Instrument: VOA9.i
Operator: FT
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240227.b\U022708.D
Inj Date : 27-FEB-2024 12:25
InstruID : VOA9.i
LabSampID : VSTD050

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240227.b\U022709.D Page 1
Report Date: 04-Mar-2024 16:05

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240227.b\U022709.D
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Inj Date : 27-FEB-2024 12:47
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD100;VSTD100;1;8;;
Misc Info : V9;WATER;0;1;
Comment   :
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Meth Date : 04-Mar-2024 16:05 VOA9.i Quant Type: ISTD
Cal Date : 27-FEB-2024 12:25 Cal File: U022708.D
Als bottle: 9 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 08260V9.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.815	4.815	(1.000)	504403	50.0000	
2	Dichlorodifluoromethane	85	1.160	1.160	(0.241)	476748	100.000	99.22
3	Chloromethane	50	1.295	1.295	(0.269)	531759	100.000	89.15
5	Vinyl Chloride	62	1.374	1.374	(0.285)	553721	100.000	97.65
6	Bromomethane	94	1.614	1.614	(0.335)	271766	100.000	98.06
7	Chloroethane	64	1.693	1.693	(0.352)	358853	100.000	91.74
8	Trichlorofluoromethane	101	1.891	1.891	(0.393)	705727	100.000	99.76
9	Acrolein	56	2.262	2.262	(0.470)	44838	200.000	188.90(M)
10	Acetone	43	1.955	1.955	(0.406)	526314	200.000	171.85
11	1,1-Dichloroethene	96	2.330	2.330	(0.484)	400080	100.000	93.64
15	Iodomethane	142	2.465	2.465	(0.512)	981471	200.000	184.48
16	Acrylonitrile	53	3.061	3.061	(0.636)	361571	200.000	187.11
17	Methylene Chloride	84	2.791	2.791	(0.580)	457326	100.000	91.00
18	Methyl tert-butyl ether	73	3.076	3.076	(0.639)	1288489	100.000	90.42
19	Carbon Disulfide	76	2.517	2.517	(0.523)	1666434	200.000	191.88
20	trans-1,2-Dichloroethene	96	3.057	3.057	(0.635)	444831	100.000	89.71
21	Vinyl Acetate	43	3.604	3.604	(0.749)	2144724	200.000	178.84
22	1,1-Dichloroethane	63	3.511	3.511	(0.729)	768848	100.000	98.02
24	2-Butanone	43	4.257	4.257	(0.884)	384541	200.000	188.97
26	2,2-Dichloropropane	77	4.182	4.182	(0.868)	703738	100.000	97.51

27 cis-1,2-Dichloroethene	96	4.193	4.193 (0.871)	488562	100.000	96.65
28 Chloroform	83	4.572	4.572 (0.949)	797447	100.000	94.84

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240227.b\U022709.D Page 2
Report Date: 04-Mar-2024 16:05

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
29	Bromochloromethane	128	4.467	4.467	(0.928)	253686	100.000	98.88
$ 30	Dibromofluoromethane	113	4.744	4.744	(0.985)	477322	100.000	96.49
31	1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	728073	100.000	97.35
32	1,1-Dichloropropene	75	4.920	4.920	(0.887)	600600	100.000	97.71
33	1,2-Dichloroethane	62	5.175	5.175	(0.932)	656010	100.000	94.23
34	Carbon Tetrachloride	117	4.909	4.909	(0.885)	634323	100.000	91.74
$ 35	1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	576605	100.000	96.53
* 36	1,4-Difluorobenzene	114	5.550	5.550	(1.000)	728440	50.0000	
37	Benzene	78	5.138	5.138	(0.926)	1765108	100.000	97.81
38	Trichloroethene	130	5.786	5.786	(1.043)	507881	100.000	96.24
39	Bromodichloromethane	83	6.277	6.277	(1.131)	648013	100.000	94.97
42	1,2-Dichloropropane	63	6.007	6.007	(1.082)	464147	100.000	96.28
44	Dibromomethane	93	6.116	6.116	(1.102)	299662	100.000	101.03
45	4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	967975	200.000	184.59
46	cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	773705	100.000	102.92
* 47	Chlorobenzene-d5	117	8.185	8.185	(1.000)	683334	50.0000	
$ 48	Toluene-d8	98	6.922	6.922	(0.846)	1809580	100.000	92.46
50	Toluene	91	6.978	6.978	(0.853)	1950950	100.000	92.62
51	trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	680838	100.000	107.50
52	2-Hexanone	43	7.702	7.702	(0.941)	857512	200.000	208.12
53	1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	358756	100.000	92.26
54	1,3-Dichloropropane	76	7.496	7.496	(0.916)	778415	100.000	93.16
55	Dibromochloromethane	129	7.691	7.691	(0.940)	552492	100.000	97.70
56	Tetrachloroethene	164	7.458	7.458	(0.911)	422498	100.000	94.25
57	1,2-Dibromoethane	107	7.784	7.784	(0.951)	458205	100.000	97.13
58	1-Chlorohexane	55	8.197	8.197	(1.477)	412827	100.000	92.23
59	Chlorobenzene	112	8.208	8.208	(1.003)	1310948	100.000	94.12
60	1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	508090	100.000	99.51
61	Ethylbenzene	106	8.305	8.305	(1.015)	680872	100.000	96.43
62	m,p-Xylenes	106	8.407	8.407	(1.027)	1719530	200.000	191.96
63	o-Xylene	106	8.744	8.744	(1.068)	856446	100.000	97.98
64	Styrene	104	8.759	8.759	(1.070)	1501763	100.000	96.85
66	Bromoform	173	8.916	8.916	(1.089)	432720	100.000	96.94
67	Isopropylbenzene	105	9.063	9.063	(1.107)	2152032	100.000	95.75
68	1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	633739	100.000	92.88
$ 69	4-Bromofluorobenzene	95	9.190	9.190	(1.123)	684309	100.000	96.98
* 70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	372824	50.0000	
71	1,2,3-Trichloropropane	75	9.362	9.362	(0.921)	701586	100.000	97.39
73	n-Propylbenzene	91	9.411	9.411	(0.926)	2327090	100.000	93.25
74	Bromobenzene	156	9.317	9.317	(0.916)	616396	100.000	95.18
75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	1810701	100.000	91.79
76	2-Chlorotoluene	91	9.482	9.482	(0.933)	1472560	100.000	91.35
77	4-Chlorotoluene	91	9.572	9.572	(0.941)	1732114	100.000	92.97
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	1533150	100.000	94.65
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	1798054	100.000	93.06
81	sec-Butylbenzene	105	10.022	10.022	(0.986)	2045745	100.000	95.49
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	1901094	100.000	96.45
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	1103730	100.000	98.79
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	1135258	100.000	98.28
87	n-Butylbenzene	91	10.491	10.491	(1.032)	1614628	100.000	98.64
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	1082443	100.000	95.96
89	1,2-Dibromo-3-Chloropropane	155	11.166	11.166	(1.098)	123023	100.000	95.84

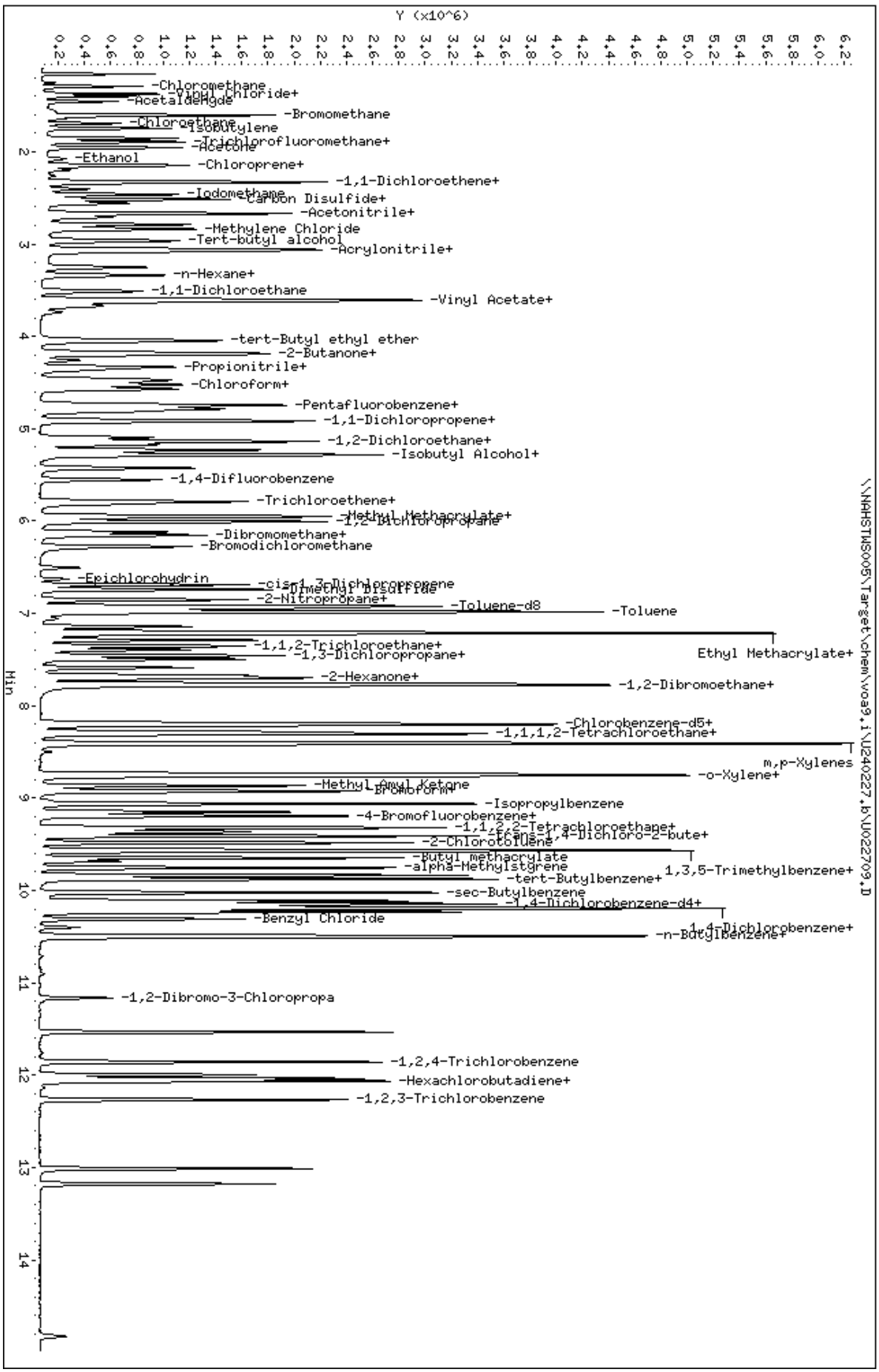
90 1,2,4-Trichlorobenzene	180	11.855	11.855 (1.166)	788964	100.000	104.38
91 Hexachlorobutadiene	225	11.998	11.998 (1.180)	318766	100.000	93.08

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240227.b\U022709.D Page 3
Report Date: 04-Mar-2024 16:05

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	92 Naphthalene	128	12.065	12.065	(1.187)	1912893	100.000	103.20
	93 1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	739640	100.000	102.52
M	94 1,2-Dichloroethylene (total)	96				933393	200.000	
M	95 Xylenes (total)	106				2575976	300.000	
	135 1,4-Dioxane	88	6.161	6.161	(1.279)	141754	2000.00	1916.49
	141 Cyclohexane	56	4.782	4.782	(0.993)	644919	100.000	89.93
	138 Freon TF	101	2.334	2.334	(0.485)	382267	100.000	99.77
	140 1,3-Butadiene	54	1.400	1.400	(0.291)	185031	100.000	90.24
	147 Methylcyclohexane	55	5.944	5.944	(1.071)	1248319	100.000	93.58
	146 Methyl Acetate	43	2.709	2.709	(0.563)	517748	100.000	83.40
	162 Butyl acrylate	55	8.729	8.729	(1.066)	1149210	100.000	98.24
	203 2-Ethylhexyl Acrylate	55	12.035	12.035	(1.184)	801353	100.000	97.20
	148 Tert-Butyl alcohol	59	2.963	2.963	(0.615)	1248615	2000.00	1790.68
	149 Isopropyl Alcohol	45	2.559	2.559	(0.531)	745807	2000.00	1833.39

QC Flag Legend

M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240227.b\U022709.D
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Client ID: VSTD100
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Column phase: DB624

Instrument: VOA9.i
Operator: FT
Column diameter: 0.18

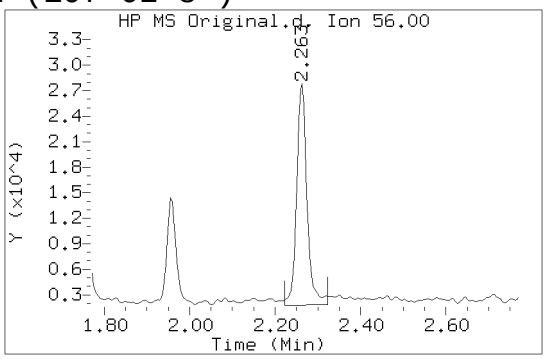
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InstruID : VOA9.i
LabSampID : VSTD100

Acrolein (107-02-8)

Reason Code:

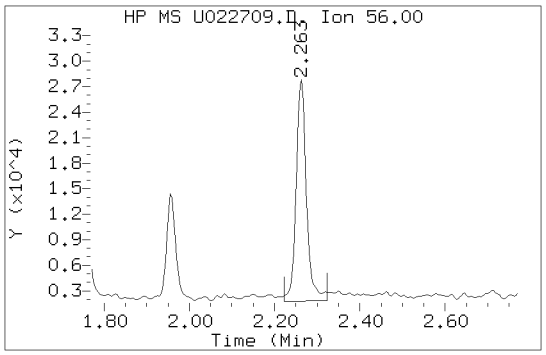
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27-Feb-2024
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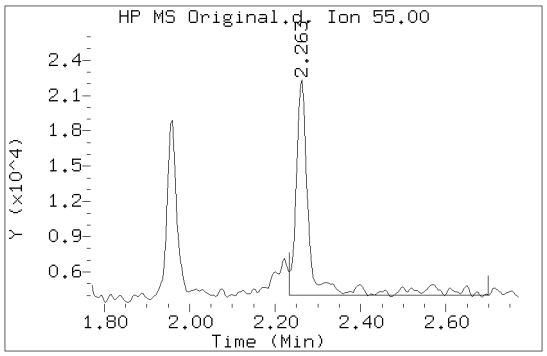
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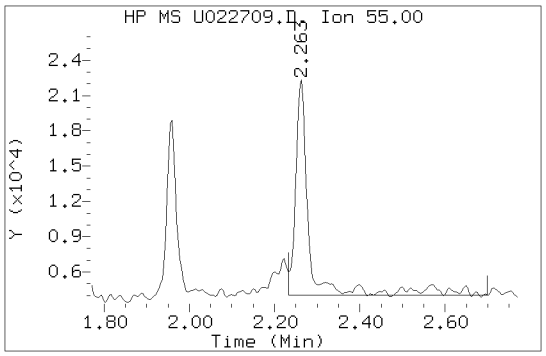
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AFTER

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04-Mar-2024
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Data File: \\NAHSTWS005\Target\chem\voa9.i\U240227.b\U022710.D Page 1
Report Date: 04-Mar-2024 16:05

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240227.b\U022710.D
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Inj Date : 27-FEB-2024 13:10
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD150;VSTD150;1;9;;
Misc Info : V9;WATER;0;1;
Comment   :
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Meth Date : 04-Mar-2024 16:05 VOA9.i Quant Type: ISTD
Cal Date : 27-FEB-2024 12:47 Cal File: U022709.D
Als bottle: 10 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 08260V9.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.819	4.819	(1.000)	492177	50.0000	
2	Dichlorodifluoromethane	85	1.172	1.172	(0.243)	792816	150.000	169.10
3	Chloromethane	50	1.306	1.306	(0.271)	847825	150.000	145.67
5	Vinyl Chloride	62	1.385	1.385	(0.288)	912698	150.000	164.96
6	Bromomethane	94	1.621	1.621	(0.337)	480807	150.000	150.44
7	Chloroethane	64	1.704	1.704	(0.354)	592882	150.000	155.34
8	Trichlorofluoromethane	101	1.903	1.903	(0.395)	1176300	150.000	170.41
9	Acrolein	56	2.274	2.274	(0.472)	70728	300.000	305.11
10	Acetone	43	1.966	1.966	(0.408)	858929	300.000	287.43(A)
11	1,1-Dichloroethene	96	2.341	2.341	(0.486)	664645	150.000	159.43
15	Iodomethane	142	2.476	2.476	(0.514)	1626162	300.000	309.09
16	Acrylonitrile	53	3.072	3.072	(0.638)	570105	300.000	301.88
17	Methylene Chloride	84	2.798	2.798	(0.581)	755831	150.000	153.52
18	Methyl tert-butyl ether	73	3.087	3.087	(0.641)	2048619	150.000	147.34
19	Carbon Disulfide	76	2.529	2.529	(0.525)	2753863	300.000	324.98
20	trans-1,2-Dichloroethene	96	3.065	3.065	(0.636)	729336	150.000	150.75
21	Vinyl Acetate	43	3.616	3.616	(0.750)	3557320	300.000	304.00
22	1,1-Dichloroethane	63	3.522	3.522	(0.731)	1262390	150.000	164.94
24	2-Butanone	43	4.264	4.264	(0.885)	614328	300.000	309.39
26	2,2-Dichloropropane	77	4.189	4.189	(0.869)	1150806	150.000	163.42

27 cis-1,2-Dichloroethene	96	4.200	4.200 (0.872)	816115	150.000	165.46
28 Chloroform	83	4.579	4.579 (0.950)	1311202	150.000	159.82

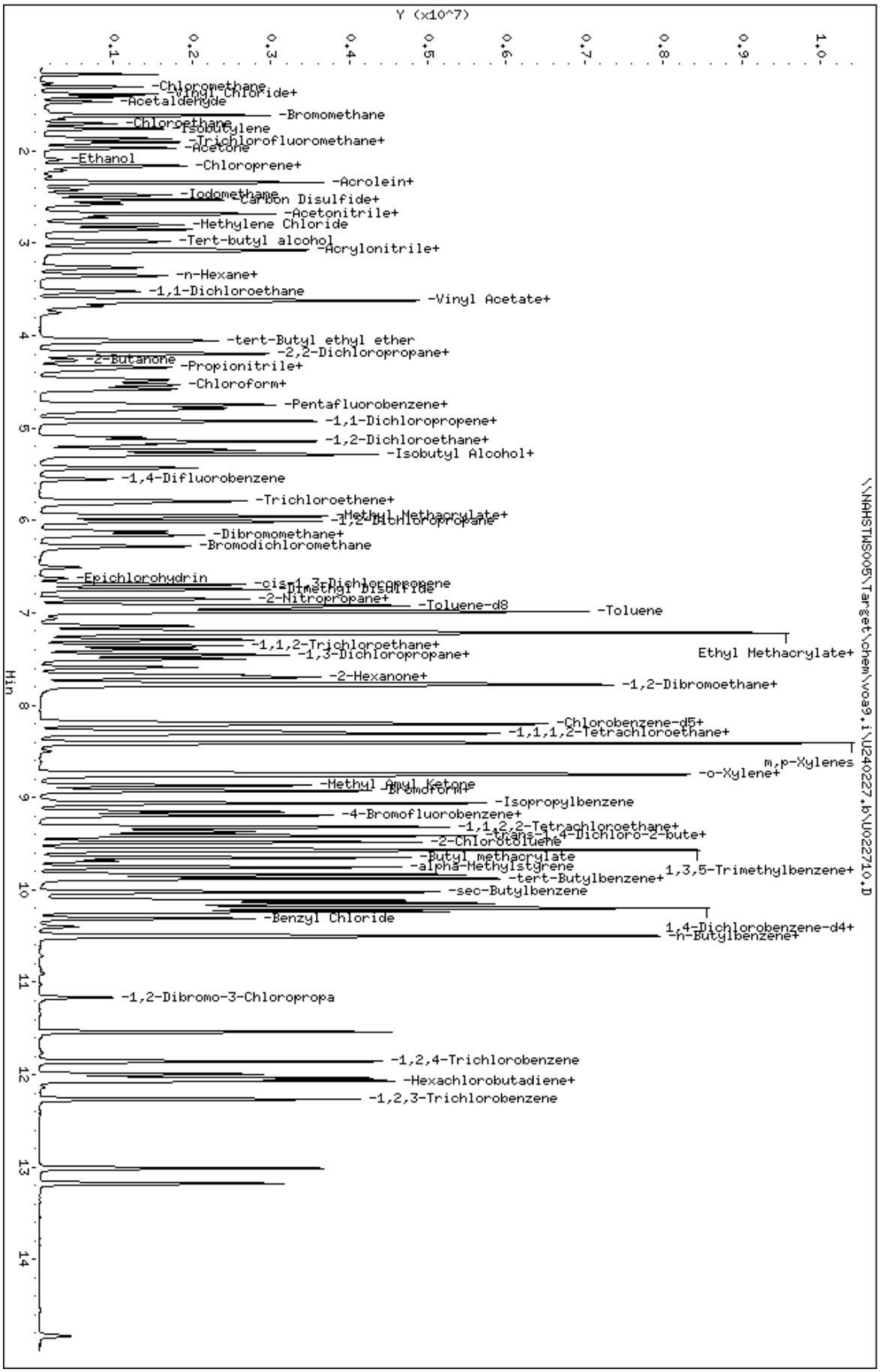
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	29 Bromochloromethane	128	4.474	4.474	(0.928)	405762	150.000	162.09
$	30 Dibromofluoromethane	113	4.752	4.752	(0.986)	730081	150.000	151.04
	31 1,1,1-Trichloroethane	97	4.748	4.748	(0.985)	1194391	150.000	163.67
	32 1,1-Dichloropropene	75	4.928	4.928	(0.887)	989079	150.000	163.96
	33 1,2-Dichloroethane	62	5.179	5.179	(0.933)	1075017	150.000	157.35
	34 Carbon Tetrachloride	117	4.916	4.916	(0.885)	1054596	150.000	154.18
$	35 1,2-Dichloroethane-d4	65	5.100	5.100	(1.058)	880843	150.000	150.86
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	714878	50.0000	
	37 Benzene	78	5.141	5.141	(0.926)	2888654	150.000	163.11
	38 Trichloroethene	130	5.790	5.790	(1.043)	838455	150.000	161.90
	39 Bromodichloromethane	83	6.277	6.277	(1.130)	1072285	150.000	160.13
	42 1,2-Dichloropropane	63	6.011	6.011	(1.082)	756307	150.000	159.87
	44 Dibromomethane	93	6.120	6.120	(1.102)	500097	150.000	171.81
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	1581765	300.000	310.96
	46 cis-1,3-Dichloropropene	75	6.693	6.693	(1.205)	1279716	150.000	173.46
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	662858	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	2748616	150.000	144.79
	50 Toluene	91	6.982	6.982	(0.853)	3189197	150.000	156.09
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	1114895	150.000	179.38
	52 2-Hexanone	43	7.705	7.705	(0.941)	1410421	300.000	352.89
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	596730	150.000	158.21
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	1269531	150.000	156.64
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	920869	150.000	167.87
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	696615	150.000	160.20
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	745174	150.000	162.85
	58 1-Chlorohexane	55	8.197	8.197	(1.476)	674955	150.000	153.37
	59 Chlorobenzene	112	8.208	8.208	(1.003)	2176638	150.000	161.11
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	835819	150.000	168.75
	61 Ethylbenzene	106	8.305	8.305	(1.015)	1130139	150.000	165.01
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	2824532	300.000	325.06
	63 o-Xylene	106	8.748	8.748	(1.069)	1404875	150.000	165.69
	64 Styrene	104	8.763	8.763	(1.071)	2488311	150.000	165.44
	66 Bromoform	173	8.916	8.916	(1.089)	729766	150.000	168.53
	67 Isopropylbenzene	105	9.063	9.063	(1.107)	3532856	150.000	162.04
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	1054806	150.000	156.41
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	1054081	150.000	153.99
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	368489	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	1178483	150.000	165.52
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	3878869	150.000	157.27
	74 Bromobenzene	156	9.317	9.317	(0.916)	1022111	150.000	159.68
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	3009540	150.000	154.37
	76 2-Chlorotoluene	91	9.482	9.482	(0.932)	2424078	150.000	152.14
	77 4-Chlorotoluene	91	9.576	9.576	(0.941)	2852336	150.000	154.90
	78 tert-Butylbenzene	119	9.835	9.835	(0.967)	2526546	150.000	157.82
	79 1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	2957766	150.000	154.89
	81 sec-Butylbenzene	105	10.022	10.022	(0.985)	3405566	150.000	160.83
	82 p-Isopropyltoluene	119	10.146	10.146	(0.997)	3139063	150.000	161.13
	83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	1830456	150.000	165.77
	84 1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	1864716	150.000	163.33
	87 n-Butylbenzene	91	10.491	10.491	(1.031)	2709510	150.000	167.48
	88 1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	1774154	150.000	159.13
	89 1,2-Dibromo-3-Chloropropane	155	11.166	11.166	(1.098)	205436	150.000	161.93

90 1,2,4-Trichlorobenzene	180	11.855	11.855 (1.165)	1333951	150.000	178.56
91 Hexachlorobutadiene	225	11.998	11.998 (1.179)	539089	150.000	159.27

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	92 Naphthalene	128	12.065	12.065	(1.186)	3209637	150.000	175.19
	93 1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	1246376	150.000	174.80
M	94 1,2-Dichloroethylene (total)	96				1545451	300.000	
M	95 Xylenes (total)	106				4229407	450.000	
	135 1,4-Dioxane	88	6.165	6.165	(1.279)	237241	3000.00	3093.82
	141 Cyclohexane	56	4.789	4.789	(0.994)	1084663	150.000	154.27(A)
	138 Freon TF	101	2.345	2.345	(0.487)	647690	150.000	173.25
	140 1,3-Butadiene	54	1.411	1.411	(0.293)	305702	150.000	151.85
	147 Methylcyclohexane	55	5.947	5.947	(1.071)	2017777	150.000	153.39(A)
	146 Methyl Acetate	43	2.720	2.720	(0.564)	831701	150.000	137.30
	162 Butyl acrylate	55	8.733	8.733	(1.067)	1907034	150.000	168.07
	203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	1323579	150.000	162.44
	148 Tert-Butyl alcohol	59	2.978	2.978	(0.618)	2008706	3000.00	2952.31
	149 Isopropyl Alcohol	45	2.574	2.574	(0.534)	1190336	3000.00	2998.86

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.



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Column phase: DB624

Instrument: VOA9.i
Operator: FT
Column diameter: 0.18

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Inj Date : 27-FEB-2024 13:10
InstruID : VOA9.i
LabSampID : VSTD150

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240227.b\U022711.D Page 1
Report Date: 04-Mar-2024 16:05

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240227.b\U022711.D
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Inj Date : 27-FEB-2024 13:32
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD200;VSTD200;1;10;;
Misc Info : V9;WATER;0;1;
Comment   :
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Meth Date : 04-Mar-2024 16:05 VOA9.i Quant Type: ISTD
Cal Date : 27-FEB-2024 13:10 Cal File: U022710.D
Als bottle: 11 Calibration Sample, Level: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 08260V9.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.819	4.819	(1.000)	496135	50.0000	
2	Dichlorodifluoromethane	85	1.164	1.164	(0.242)	1065796	200.000	225.52(A)
3	Chloromethane	50	1.299	1.299	(0.270)	1196575	200.000	203.95(A)
5	Vinyl Chloride	62	1.378	1.378	(0.286)	1220887	200.000	218.91(A)
6	Bromomethane	94	1.610	1.610	(0.334)	655553	200.000	173.62
7	Chloroethane	64	1.696	1.696	(0.352)	791147	200.000	205.63(A)
8	Trichlorofluoromethane	101	1.899	1.899	(0.394)	1558444	200.000	223.97(A)
9	Acrolein	56	2.266	2.266	(0.470)	94534	400.000	404.40(A)
10	Acetone	43	1.962	1.962	(0.407)	1143925	400.000	379.74(A)
11	1,1-Dichloroethene	96	2.334	2.334	(0.484)	882812	200.000	210.07(A)
15	Iodomethane	142	2.469	2.469	(0.512)	2141382	400.000	401.94(A)
16	Acrylonitrile	53	3.068	3.068	(0.637)	771402	400.000	404.94(A)
17	Methylene Chloride	84	2.795	2.795	(0.580)	1003587	200.000	201.93(A)
18	Methyl tert-butyl ether	73	3.083	3.083	(0.640)	2731472	200.000	194.89
19	Carbon Disulfide	76	2.521	2.521	(0.523)	3653871	400.000	427.74(A)
20	trans-1,2-Dichloroethene	96	3.061	3.061	(0.635)	982261	200.000	201.41(A)
21	Vinyl Acetate	43	3.608	3.608	(0.749)	4582941	400.000	388.53
22	1,1-Dichloroethane	63	3.514	3.514	(0.729)	1683322	200.000	218.19(A)
24	2-Butanone	43	4.264	4.264	(0.885)	822497	400.000	410.92(A)
26	2,2-Dichloropropane	77	4.185	4.185	(0.869)	1515212	200.000	213.46(A)

27 cis-1,2-Dichloroethene	96	4.197	4.197 (0.871)	1077153	200.000	216.64(A)
28 Chloroform	83	4.575	4.575 (0.949)	1754865	200.000	212.20(A)

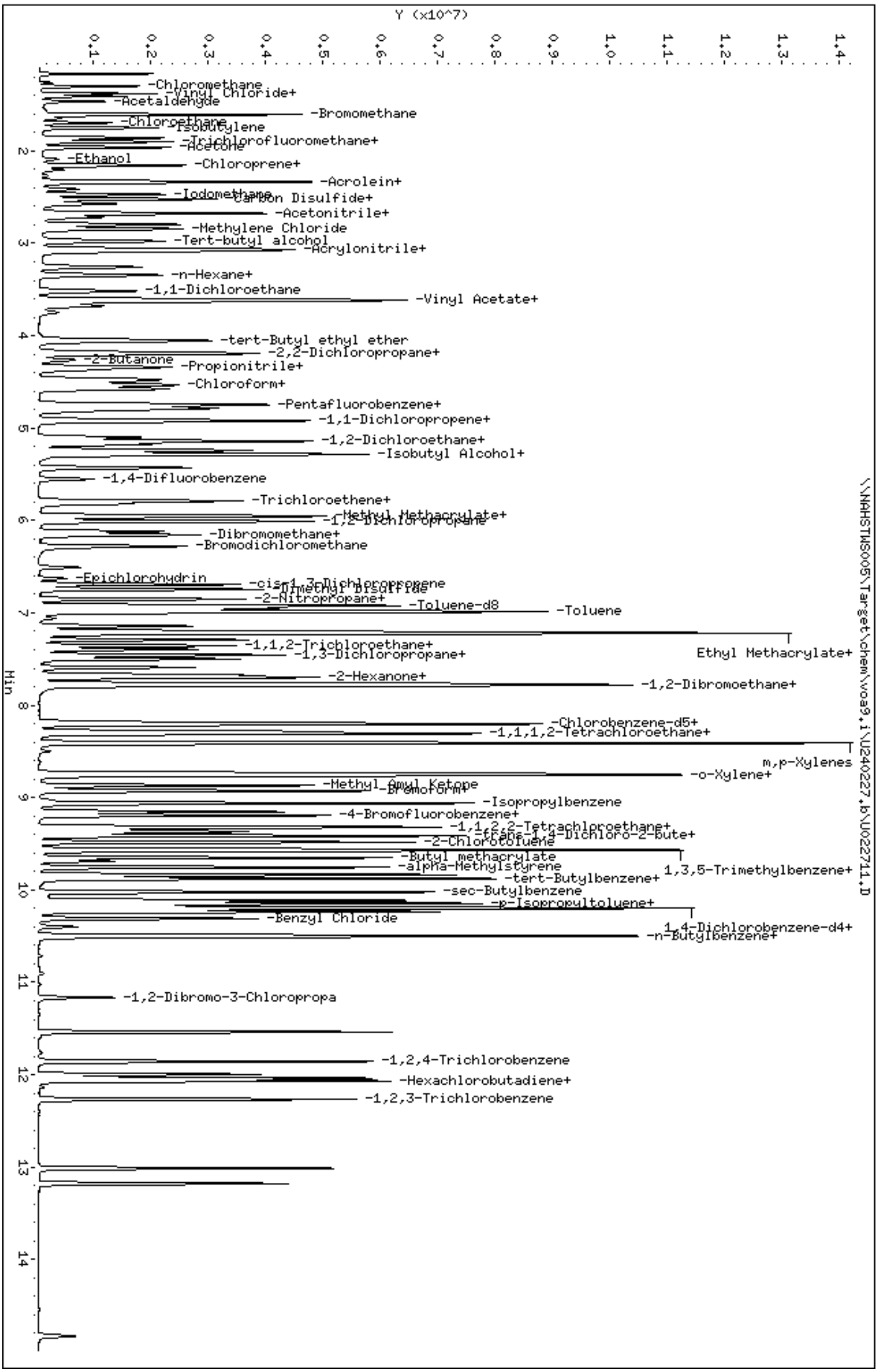
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	29 Bromochloromethane	128	4.470	4.470	(0.928)	539613	200.000	213.84(A)
$	30 Dibromofluoromethane	113	4.748	4.748	(0.985)	980208	200.000	201.05(A)
	31 1,1,1-Trichloroethane	97	4.744	4.744	(0.984)	1586309	200.000	215.64(A)
	32 1,1-Dichloropropene	75	4.924	4.924	(0.887)	1318307	200.000	212.90(A)
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	1423553	200.000	202.99(A)
	34 Carbon Tetrachloride	117	4.913	4.913	(0.885)	1417440	200.000	201.33(A)
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	1184651	200.000	201.11(A)
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	733811	50.0000	
	37 Benzene	78	5.141	5.141	(0.926)	3852898	200.000	211.94(A)
	38 Trichloroethene	130	5.790	5.790	(1.043)	1131014	200.000	212.76(A)
	39 Bromodichloromethane	83	6.277	6.277	(1.130)	1422447	200.000	206.94(A)
	42 1,2-Dichloropropane	63	6.011	6.011	(1.082)	1011272	200.000	208.25(A)
	44 Dibromomethane	93	6.120	6.120	(1.102)	665538	200.000	222.75(A)
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	2147450	400.000	406.65(A)
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	1707431	200.000	225.46(A)
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	688157	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	3680215	200.000	186.73
	50 Toluene	91	6.982	6.982	(0.853)	4216845	200.000	198.80
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	1499386	200.000	235.01(A)
	52 2-Hexanone	43	7.705	7.705	(0.941)	1909634	400.000	460.23(A)
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	786383	200.000	200.83(A)
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	1696530	200.000	201.63(A)
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	1231007	200.000	216.16(A)
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	926015	200.000	205.13(A)
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	1015732	200.000	213.82(A)
	58 1-Chlorohexane	55	8.197	8.197	(1.476)	913124	200.000	201.99(A)
	59 Chlorobenzene	112	8.208	8.208	(1.003)	2919367	200.000	208.14(A)
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	1124286	200.000	218.65(A)
	61 Ethylbenzene	106	8.309	8.309	(1.015)	1521592	200.000	214.00(A)
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	3791108	400.000	420.26(A)
	63 o-Xylene	106	8.748	8.748	(1.069)	1874874	200.000	213.00(A)
	64 Styrene	104	8.763	8.763	(1.071)	3332632	200.000	213.43(A)
	66 Bromoform	173	8.916	8.916	(1.089)	976048	200.000	217.12(A)
	67 Isopropylbenzene	105	9.063	9.063	(1.107)	4735703	200.000	209.23(A)
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	1425304	200.000	204.81(A)
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	1409817	200.000	198.38
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	380248	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	1615300	200.000	219.86(A)
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	5189547	200.000	203.91(A)
	74 Bromobenzene	156	9.317	9.317	(0.916)	1364962	200.000	206.65(A)
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	4011890	200.000	199.42
	76 2-Chlorotoluene	91	9.482	9.482	(0.932)	3245517	200.000	197.40
	77 4-Chlorotoluene	91	9.576	9.576	(0.941)	3818471	200.000	200.96(A)
	78 tert-Butylbenzene	119	9.838	9.838	(0.967)	3385839	200.000	204.95(A)
	79 1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	3979363	200.000	201.94(A)
	81 sec-Butylbenzene	105	10.022	10.022	(0.985)	4543435	200.000	207.93(A)
	82 p-Isopropyltoluene	119	10.146	10.146	(0.997)	4206036	200.000	209.23(A)
	83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	2439147	200.000	214.06(A)
	84 1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	2532038	200.000	214.92(A)
	87 n-Butylbenzene	91	10.491	10.491	(1.031)	3614210	200.000	216.49(A)
	88 1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	2411716	200.000	209.63(A)
	89 1,2-Dibromo-3-Chloropropane	155	11.166	11.166	(1.098)	280656	200.000	214.38(A)

90 1,2,4-Trichlorobenzene	180	11.855	11.855 (1.165)	1784288	200.000	231.45(A)
91 Hexachlorobutadiene	225	11.998	11.998 (1.179)	725577	200.000	207.74(A)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	92 Naphthalene	128	12.065	12.065	(1.186)	4329081	200.000	228.99(A)
	93 1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	1686186	200.000	229.17(A)
M	94 1,2-Dichloroethylene (total)	96				2059414	400.000	
M	95 Xylenes (total)	106				5665982	600.000	
	135 1,4-Dioxane	88	6.165	6.165	(1.279)	323654	4000.00	3963.55
	141 Cyclohexane	56	4.785	4.785	(0.993)	1433544	200.000	201.96(A)
	138 Freon TF	101	2.337	2.337	(0.485)	860235	200.000	228.27(A)
	140 1,3-Butadiene	54	1.408	1.408	(0.292)	413285	200.000	203.19(A)
	147 Methylcyclohexane	55	5.944	5.944	(1.070)	2717539	200.000	200.90(A)
	146 Methyl Acetate	43	2.716	2.716	(0.564)	1112069	200.000	182.13
	162 Butyl acrylate	55	8.733	8.733	(1.067)	2606791	200.000	221.29(A)
	203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	1799083	200.000	213.97(A)
	148 Tert-Butyl alcohol	59	2.975	2.975	(0.617)	2721167	4000.00	3967.55
	149 Isopropyl Alcohol	45	2.574	2.574	(0.534)	1623198	4000.00	4056.76(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.



Data File: \\NAHSTMS005\Target\chem\voa9.i\U240227.b\U022711.D
Date : 27-FEB-2024 13:32
Client ID: VSTD200
Sample Info: VSTD200;VSTD200;1;10;;
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: FT
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240227.b\U022711.D
Inj Date : 27-FEB-2024 13:32
InstruID : VOA9.i
LabSampID : VSTD200

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240227.b\U022713.D Page 1
Report Date: 04-Mar-2024 16:05

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240227.b\U022713.D
Lab Smp Id: ICV Client Smp ID: ICV
Inj Date : 27-FEB-2024 14:17
Operator : FT Inst ID: VOA9.i
Smp Info : ICV
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa9.i\U240227.b\8260C.m
Meth Date : 04-Mar-2024 16:05 VOA9.i Quant Type: ISTD
Cal Date : 27-FEB-2024 13:32 Cal File: U022711.D
Als bottle: 13 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 08260V9.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

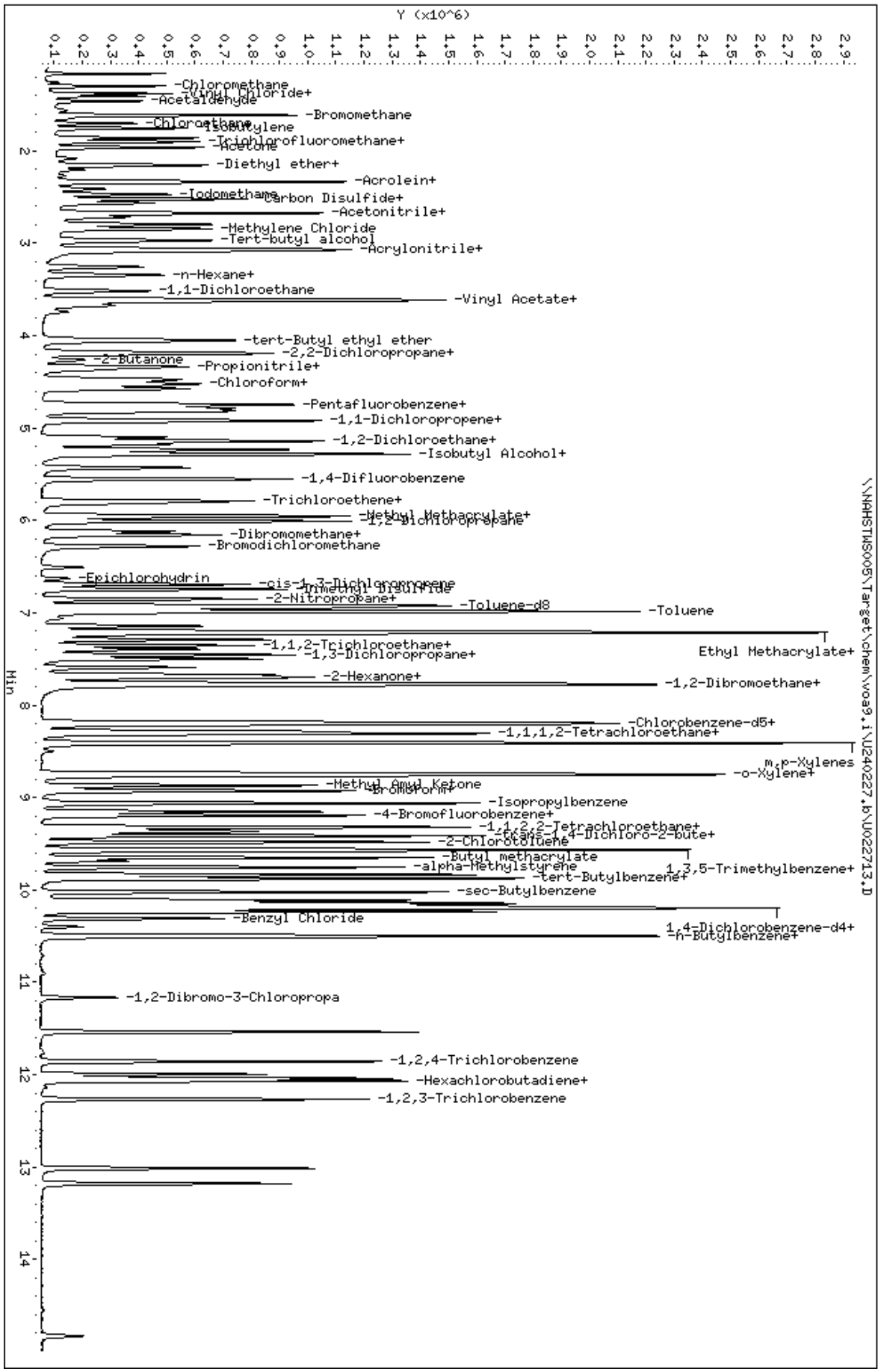
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1	Pentafluorobenzene	168	4.815	4.819	(1.000)	482712	50.0000	
2	Dichlorodifluoromethane	85	1.164	1.164	(0.242)	228293	49.6501	49.65
3	Chloromethane	50	1.299	1.299	(0.270)	277644	48.6412	48.64
5	Vinyl Chloride	62	1.378	1.378	(0.286)	262796	48.4307	48.43
6	Bromomethane	94	1.621	1.610	(0.337)	138924	56.4911	56.49
7	Chloroethane	64	1.700	1.696	(0.353)	176631	47.1865	47.18
8	Trichlorofluoromethane	101	1.899	1.899	(0.394)	341788	50.4866	50.48
9	Acrolein	56	2.266	2.266	(0.471)	22725	100.260	100.25
10	Acetone	43	1.963	1.962	(0.408)	264310	90.1827	90.18
11	1,1-Dichloroethene	96	2.334	2.334	(0.485)	191427	46.8199	46.81
15	Iodomethane	142	2.469	2.469	(0.513)	397486	81.5122	81.51
16	Acrylonitrile	53	3.065	3.068	(0.636)	190298	103.262	103.26
17	Methylene Chloride	84	2.795	2.795	(0.580)	232261	48.7160	48.71
18	Methyl tert-butyl ether	73	3.080	3.083	(0.640)	671794	49.2653	49.26
19	Carbon Disulfide	76	2.521	2.521	(0.524)	810476	97.5187	97.51
20	trans-1,2-Dichloroethene	96	3.061	3.061	(0.636)	218752	46.1028	46.10
21	Vinyl Acetate	43	3.608	3.608	(0.749)	1052278	91.6905	91.69
22	1,1-Dichloroethane	63	3.515	3.514	(0.730)	369868	49.2763	49.27
24	2-Butanone	43	4.260	4.264	(0.885)	195970	100.631	100.63
26	2,2-Dichloropropane	77	4.186	4.185	(0.869)	328206	47.5234	47.52

27 cis-1,2-Dichloroethene	96	4.197	4.197 (0.872)	234747	48.5262	48.52
28 Chloroform	83	4.572	4.575 (0.949)	393431	48.8979	48.89

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	29 Bromochloromethane	128	4.470	4.470	(0.928)	125257	51.0180	51.01
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	237939	50.4354	50.43
	31 1,1,1-Trichloroethane	97	4.744	4.744	(0.985)	350873	49.0253	49.02
	32 1,1-Dichloropropene	75	4.924	4.924	(0.887)	285100	47.3323	47.33
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	326461	47.8550	47.85
	34 Carbon Tetrachloride	117	4.913	4.913	(0.885)	302738	45.5923	45.59
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	291662	51.2460	51.24
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	713841	50.0000	
	37 Benzene	78	5.141	5.141	(0.926)	856514	48.4353	48.43
	38 Trichloroethene	130	5.790	5.790	(1.043)	242222	46.8412	46.84
	39 Bromodichloromethane	83	6.277	6.277	(1.130)	316957	47.4020	47.40
	42 1,2-Dichloropropane	63	6.007	6.011	(1.082)	223848	47.3879	47.38
	44 Dibromomethane	93	6.120	6.120	(1.102)	149931	51.5865	51.58
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	485620	94.8178	94.81
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.204)	368948	50.0831	50.08
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	667416	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	884375	46.2689	46.26
	50 Toluene	91	6.982	6.982	(0.853)	939554	45.6722	45.67
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	326904	52.6737	52.67
	52 2-Hexanone	43	7.706	7.705	(0.941)	412567	102.521	102.52
	53 1,1,2-Trichloroethane	83	7.353	7.357	(0.898)	177415	46.7176	46.71
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	381366	46.7348	46.73
	55 Dibromochloromethane	129	7.691	7.690	(0.940)	266112	48.1811	48.18
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	204036	46.6036	46.60
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	226294	49.1178	49.11
	58 1-Chlorohexane	55	8.197	8.197	(1.476)	191579	43.9088	43.90
	59 Chlorobenzene	112	8.208	8.208	(1.003)	632011	46.4610	46.46
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	241627	48.4533	48.45
	61 Ethylbenzene	106	8.305	8.309	(1.015)	324943	47.1230	47.12
	62 m,p-Xylenes	106	8.407	8.410	(1.027)	825213	94.3231	94.32
	63 o-Xylene	106	8.748	8.748	(1.069)	406213	47.5831	47.58
	64 Styrene	104	8.759	8.763	(1.070)	729361	48.1638	48.16
	66 Bromoform	173	8.916	8.916	(1.089)	210554	48.2948	48.29
	67 Isopropylbenzene	105	9.063	9.063	(1.107)	1028817	46.8683	46.86
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	315825	47.7088	47.70
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	340651	49.4357	49.43
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.172	(1.000)	361715	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.921)	339214	48.5376	48.53
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	1114634	46.0410	46.04
	74 Bromobenzene	156	9.317	9.317	(0.916)	293261	46.6743	46.67
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	877812	45.8701	45.87
	76 2-Chlorotoluene	91	9.482	9.482	(0.933)	713155	45.5997	45.59
	77 4-Chlorotoluene	91	9.576	9.576	(0.942)	839135	46.4260	46.42
	78 tert-Butylbenzene	119	9.835	9.838	(0.967)	734921	46.7670	46.76
	79 1,2,4-Trimethylbenzene	105	9.876	9.880	(0.971)	869104	46.3654	46.36
	81 sec-Butylbenzene	105	10.022	10.022	(0.986)	977007	47.0057	47.00
	82 p-Isopropyltoluene	119	10.146	10.146	(0.998)	901197	47.1278	47.12
	83 1,3-Dichlorobenzene	146	10.112	10.116	(0.994)	529173	48.8216	48.82
	84 1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	548589	48.9522	48.95
	87 n-Butylbenzene	91	10.491	10.491	(1.032)	761351	47.9423	47.94
	88 1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	523110	47.7998	47.79
	89 1,2-Dibromo-3-Chloropropane	155	11.166	11.166	(1.098)	61591	49.4585	49.45

90 1,2,4-Trichlorobenzene	180	11.855	11.855 (1.166)	372634	50.8145	50.81
91 Hexachlorobutadiene	225	11.998	11.998 (1.180)	147978	44.5400	44.53

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	92 Naphthalene	128	12.065	12.065	(1.187)	941363	52.3467	52.34
	93 1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	359798	51.4073	51.40
M	94 1,2-Dichloroethylene (total)	96				453499	94.1874	94.18
M	95 Xylenes (total)	106				1231426	138.043	138.04
	135 1,4-Dioxane	88	6.165	6.165	(1.280)	75653	1106.52	1106.52
	141 Cyclohexane	56	4.785	4.785	(0.994)	315643	46.4852	46.48
	138 Freon TF	101	2.337	2.337	(0.485)	183966	50.1751	50.17
	140 1,3-Butadiene	54	1.404	1.408	(0.292)	93734	48.4185	48.41
	147 Methylcyclohexane	55	5.944	5.944	(1.070)	626837	48.5197	48.51
	146 Methyl Acetate	43	2.716	2.716	(0.564)	269198	45.3143	45.31
	162 Butyl acrylate	55	8.733	8.733	(1.067)	561880	49.1816	49.18
	203 2-Ethylhexyl Acrylate	55	12.035	12.039	(1.184)	403980	50.5100	50.50
	148 Tert-Butyl alcohol	59	2.967	2.975	(0.616)	678266	1016.43	1016.43
	149 Isopropyl Alcohol	45	2.562	2.574	(0.532)	404484	1039.01	1039.01



Data File: \\NAHSTMS005\Target\chem\voa9.i\U240227.b\U022713.D
Date : 27-FEB-2024 14:17
Client ID: ICV
Sample Info: ICV
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: FT
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240227.b\U022713.D
Inj Date : 27-FEB-2024 14:17
InstruID : VOA9.i
LabSampID : ICV

NO MANUAL INTEGRATIONS

right solutions.
right partner.

RawData

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24021563

Client

Bhate Environmental Associates, Inc.

Project

LHAAP / Site 46

03/21/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Data File: \\nahstws005\Target\chem\voa9.i\U240229.b\V022901.D Page 1
Report Date: 01-Mar-2024 08:51

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240229.b\V022901.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 29-FEB-2024 21:33
Operator : FT Inst ID: VOA9.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240229.b\bfb.m
Meth Date : 27-Jan-2023 08:08 apoluri Quant Type: ISTD
Cal Date : 30-MAR-2018 18:09 Cal File: U033003.d
Als bottle: 30 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAHSTW7066

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	2.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/l)		
RT	EXP RT	REL RT	MASS	RESPONSE			TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
9.194	9.180	(0.000)	95	163712			0.00- 100.00	100.00
9.194	9.180	(0.000)	50	32592			15.00- 40.00	19.91
9.194	9.180	(0.000)	75	79440			30.00- 60.00	48.52
9.194	9.180	(0.000)	96	11166			5.00- 9.00	6.82
9.194	9.180	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
9.194	9.180	(0.000)	174	160576			50.00- 0.00	98.08
9.194	9.180	(0.000)	175	13890			5.00- 9.00	8.65
9.194	9.180	(0.000)	176	153152			95.00- 101.00	95.38
9.194	9.180	(0.000)	177	9962			5.00- 9.00	6.50

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.91
75	30.00 - 60.00% of mass 95	48.52
96	5.00 - 9.00% of mass 95	6.82
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	98.08
175	5.00 - 9.00% of mass 174	8.48 (8.65)
176	95.00 - 101.00% of mass 174	93.55 (95.38)
177	5.00 - 9.00% of mass 176	6.09 (6.50)

Data File: V022901.D
Spectrum: Scan 2295 (9.19)
Location of Maximum: 95.05
Number of points: 250

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1815	102.10	232	160.40	141	223.10	72
37.00	10097	103.90	1106	161.00	306	223.80	52
38.00	8498	105.00	597	162.00	97	225.60	84
39.00	3460	106.00	1104	162.70	104	228.60	63
40.00	774	106.90	326	163.80	104	230.90	54
40.90	826	107.50	144	164.90	123	231.60	82
42.00	547	108.10	262	166.20	120	232.30	85
43.00	708	109.20	139	166.90	90	233.20	99
44.00	2142	109.80	208	167.80	183	233.70	118
45.00	2074	110.90	386	169.10	132	234.50	61
45.90	505	112.00	227	169.80	249	235.00	61
47.00	2735	112.50	247	170.40	227	236.40	58
48.00	1313	112.90	277	171.80	481	237.90	63
49.00	7177	114.60	264	173.90	160576	238.60	70
50.00	32592	115.90	832	175.00	13890	239.00	80
51.00	9756	116.90	1140	175.90	153152	242.30	61
52.00	598	117.90	799	176.90	9962	242.90	57
53.20	219	118.90	1081	177.90	404	243.70	54
53.70	269	119.70	150	178.90	87	245.00	76
54.20	354	120.20	169	179.50	101	245.80	95
55.00	1167	121.80	179	180.40	87	246.40	54
56.00	3204	122.80	181	181.20	67	251.70	72
57.00	5157	124.00	247	182.10	98	252.90	128
57.90	505	124.50	154	182.80	58	254.40	85
58.70	225	125.30	219	183.50	73	255.10	133
60.10	1680	126.40	148	183.70	73	256.40	68
61.00	8609	127.20	177	184.40	164	259.00	58
62.00	8750	127.90	710	185.50	62	259.90	100
63.00	6200	129.00	398	186.40	95	261.50	61
63.90	644	129.90	719	187.30	81	263.90	69
65.00	231	130.80	314	189.40	76	264.60	62
66.00	258	131.70	189	190.30	56	267.10	98
68.00	16936	132.20	161	192.10	81	272.80	125
69.00	16616	133.30	188	192.50	94	273.90	110
70.00	1798	134.20	157	193.20	58	277.30	73
71.00	455	134.90	416	193.80	92	277.90	66
72.00	1035	136.70	304	195.00	112	281.30	79
73.00	7417	137.60	117	196.40	63	284.50	61
74.00	27840	138.50	143	197.70	83	287.80	68
75.00	79440	139.00	175	198.30	51	289.60	84
76.00	7379	140.90	2459	199.40	73	290.80	58
77.00	914	142.10	426	200.00	90	292.30	135
77.90	914	142.90	2059	200.60	110	294.70	59
78.90	6198	143.80	203	201.50	57	296.00	59
79.90	2101	145.00	246	202.30	75	301.30	65

80.90	6436	145.80	300	203.10	116	302.30	53
81.90	1390	146.60	198	203.90	91	305.20	63
83.10	463	147.80	619	204.90	85	306.40	56
83.90	218	149.00	231	206.20	74	307.10	53
85.30	307	149.90	304	207.30	146	309.00	63
87.00	6469	150.90	97	207.90	78	315.00	100
88.00	6309	151.70	162	209.50	80	316.50	86
90.90	1046	152.20	143	210.80	152	320.40	78
92.00	4669	152.80	232	211.90	99	323.40	54
93.00	7116	153.10	239	213.90	105	324.20	84
94.00	20392	154.20	211	214.70	89	327.70	61
95.00	163712	154.90	510	216.10	135	332.80	98
96.00	11166	155.90	90	217.10	72	334.40	58
97.00	574	157.00	463	219.20	67	335.30	85
98.00	273	157.90	93	219.80	73	343.20	62
99.20	146	158.30	122	221.40	82	343.80	64
100.10	148	159.00	249	222.10	60		
100.70	127	159.80	112	222.40	58		

Data File: \\NAHSTWS005\Target\chem\voa9.i\u240229.b\v022901.d Page 1

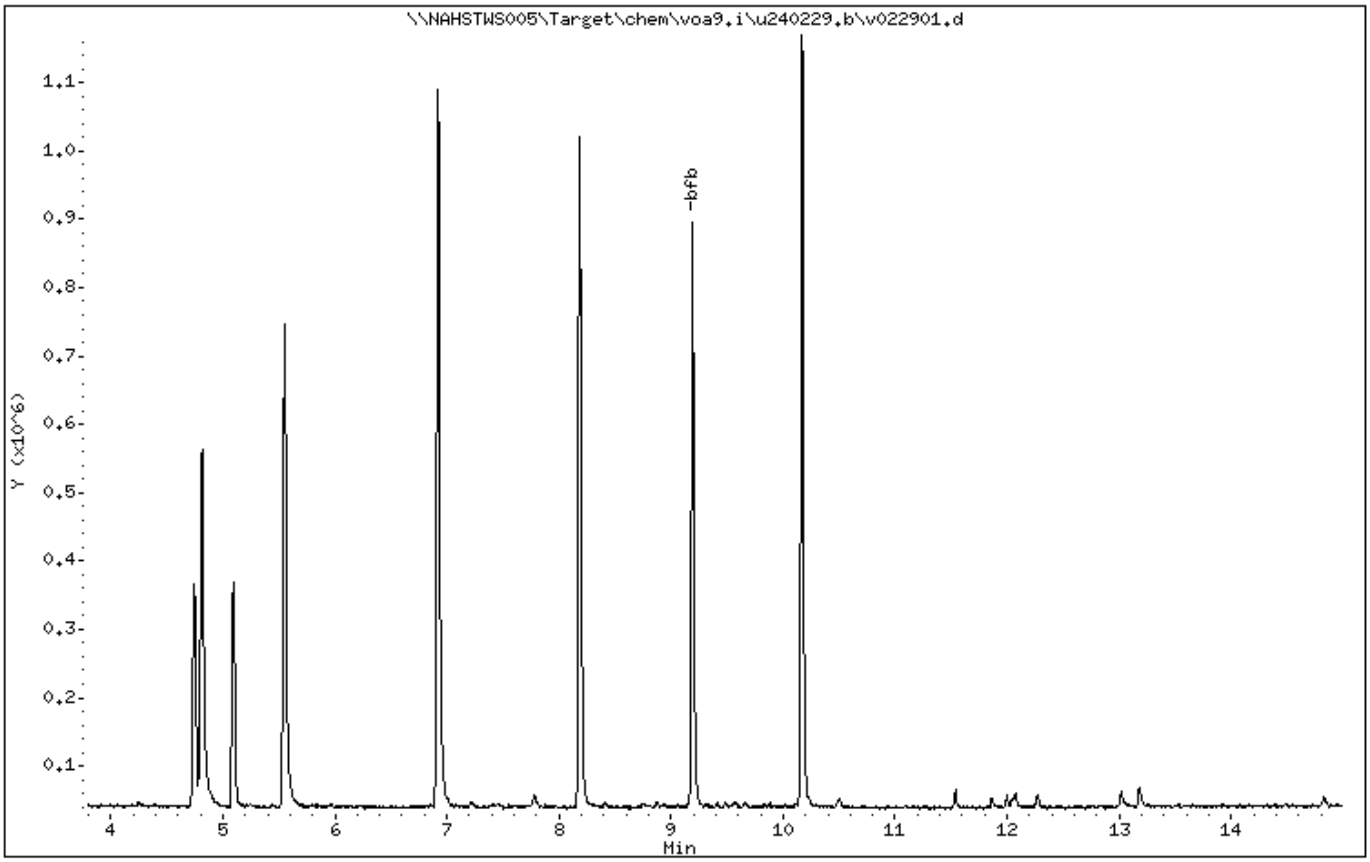
Date : 29-FEB-2024 21:33

Client ID: BFB Instrument: VOA9.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: FT

Column phase: DB624 Column diameter: 0.25



Data File : \\nahstws005\target\chem\voa9.i\u240229.b\v022901.d
Inj Date : 29-FEB-2024 21:33
InstruID : VOA9.i
LabSampID : BFB

NO MANUAL INTEGRATIONS

Data File: \\nahstws005\Target\chem\voa9.i\U240229.b\V022902.D Page 1
Report Date: 01-Mar-2024 08:53

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240229.b\V022902.D
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 29-FEB-2024 22:17
Operator : FT Inst ID: VOA9.i
Smp Info : CCV;CCV;2;;;
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240229.b\8260C.m
Meth Date : 01-Mar-2024 07:51 Quant Type: ISTD
Cal Date : 27-FEB-2024 11:19 Cal File: U022705.D
Als bottle: 31 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.815	4.815	(1.000)	344539	50.0000	
2 Dichlorodifluoromethane	85	1.160	1.160	(0.241)	158805	50.0000	48.38
3 Chloromethane	50	1.295	1.295	(0.269)	191452	50.0000	46.99
4 Propionitrile	54	4.328	4.328	(0.899)	233564	500.000	463.57
5 Vinyl Chloride	62	1.370	1.370	(0.285)	198253	50.0000	51.18
6 Bromomethane	94	1.617	1.617	(0.336)	105256	50.0000	59.69
7 Chloroethane	64	1.696	1.696	(0.352)	134850	50.0000	50.47
8 Trichlorofluoromethane	101	1.895	1.895	(0.394)	283909	50.0000	58.75
9 Acrolein	56	2.262	2.262	(0.470)	16295	100.000	100.72
10 Acetone	43	1.959	1.959	(0.407)	211210	100.000	100.96
11 1,1-Dichloroethene	96	2.330	2.330	(0.484)	148198	50.0000	50.78
12 Isobutyl Alcohol	43	5.280	5.280	(1.097)	489756	1000.00	955.49
13 Acetonitrile	39	2.667	2.667	(0.554)	286860	500.000	566.17
14 Allyl Chloride	41	2.667	2.667	(0.554)	529205	50.0000	54.07
15 Iodomethane	142	2.465	2.465	(0.512)	326170	100.000	92.81
16 Acrylonitrile	53	3.061	3.061	(0.636)	141153	100.000	107.28
17 Methylene Chloride	84	2.791	2.791	(0.580)	173982	50.0000	51.08
18 Methyl tert-butyl ether	73	3.076	3.076	(0.639)	533483	50.0000	54.81
19 Carbon Disulfide	76	2.517	2.517	(0.523)	622073	100.000	104.86
20 trans-1,2-Dichloroethene	96	3.057	3.057	(0.635)	167100	50.0000	49.34

21 Vinyl Acetate	43	3.604	3.604 (0.749)	735775	100.000	89.82
22 1,1-Dichloroethane	63	3.511	3.511 (0.729)	260111	50.0000	48.55

Data File: \\nahstws005\Target\chem\voa9.i\U240229.b\V022902.D Page 2
Report Date: 01-Mar-2024 08:53

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	2.154	2.154	(0.447)	56095	50.0000	54.32(M)
	24 2-Butanone	43	4.260	4.260	(0.885)	115575	100.000	83.14
	25 Methacrylonitrile	41	4.781	4.781	(0.993)	128499	50.0000	51.11(a)
	26 2,2-Dichloropropane	77	4.178	4.178	(0.868)	211894	50.0000	42.98
	27 cis-1,2-Dichloroethene	96	4.193	4.193	(0.871)	162510	50.0000	47.06
	28 Chloroform	83	4.571	4.571	(0.949)	273804	50.0000	47.67
	29 Bromochloromethane	128	4.466	4.466	(0.928)	88956	50.0000	50.76
$	30 Dibromofluoromethane	113	4.744	4.744	(0.985)	174273	50.0000	51.74
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	236701	50.0000	46.33
	32 1,1-Dichloropropene	75	4.920	4.920	(0.887)	197223	50.0000	46.82
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	219457	50.0000	46.00
	34 Carbon Tetrachloride	117	4.909	4.909	(0.885)	199198	50.0000	43.00
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	204306	50.0000	50.30
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	499127	50.0000	
	37 Benzene	78	5.138	5.138	(0.926)	600420	50.0000	48.55
	38 Trichloroethene	130	5.786	5.786	(1.043)	169926	50.0000	46.99
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	210512	50.0000	45.02
	40 Methyl Methacrylate	41	5.951	5.951	(1.236)	128258	50.0000	50.55
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	160085	50.0000	48.46
	43 2-Nitropropane	43	6.851	6.851	(1.423)	317927	50.0000	45.19
	44 Dibromomethane	93	6.116	6.116	(1.102)	105142	50.0000	51.73
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	317927	100.000	84.01
	46 cis-1,3-Dichloropropene	75	6.689	6.689	(1.205)	250308	50.0000	48.59
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	493143	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	682744	50.0000	48.34
	49 Ethyl Methacrylate	69	7.211	7.211	(1.299)	202907	50.0000	41.67
	50 Toluene	91	6.978	6.978	(0.853)	683660	50.0000	44.97
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.297)	222731	50.0000	51.32
	52 2-Hexanone	43	7.705	7.705	(0.941)	289897	100.000	97.49
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	128018	50.0000	45.62
	54 1,3-Dichloropropane	76	7.495	7.495	(0.916)	269840	50.0000	44.75
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	189267	50.0000	46.37
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	144422	50.0000	44.64
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	162163	50.0000	47.63
	58 1-Chlorohexane	55	8.196	8.196	(1.477)	142750	50.0000	46.76
	59 Chlorobenzene	112	8.208	8.208	(1.003)	462236	50.0000	45.98
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	173594	50.0000	47.11
	61 Ethylbenzene	106	8.305	8.305	(1.015)	236632	50.0000	46.44
	62 m,p-Xylenes	106	8.406	8.406	(1.027)	601916	100.000	93.11
	63 o-Xylene	106	8.747	8.747	(1.069)	297216	50.0000	47.11
	64 Styrene	104	8.762	8.762	(1.071)	531794	50.0000	47.52
	66 Bromoform	173	8.916	8.916	(1.089)	143647	50.0000	44.59
	67 Isopropylbenzene	105	9.062	9.062	(1.107)	759748	50.0000	46.84
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	220563	50.0000	41.85
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	267190	50.0000	52.47
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	287926	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.921)	228940	50.0000	41.15
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	46601	50.0000	41.08
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	830631	50.0000	43.10
	74 Bromobenzene	156	9.317	9.317	(0.916)	220833	50.0000	44.15
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	643004	50.0000	42.21
	76 2-Chlorotoluene	91	9.482	9.482	(0.933)	529226	50.0000	42.51

77 4-Chlorotoluene	91	9.576	9.576 (0.942)	632523	50.0000	43.96
78 tert-Butylbenzene	119	9.835	9.835 (0.967)	552250	50.0000	44.14

Data File: \\nahstws005\Target\chem\voa9.i\U240229.b\V022902.D Page 3
Report Date: 01-Mar-2024 08:53

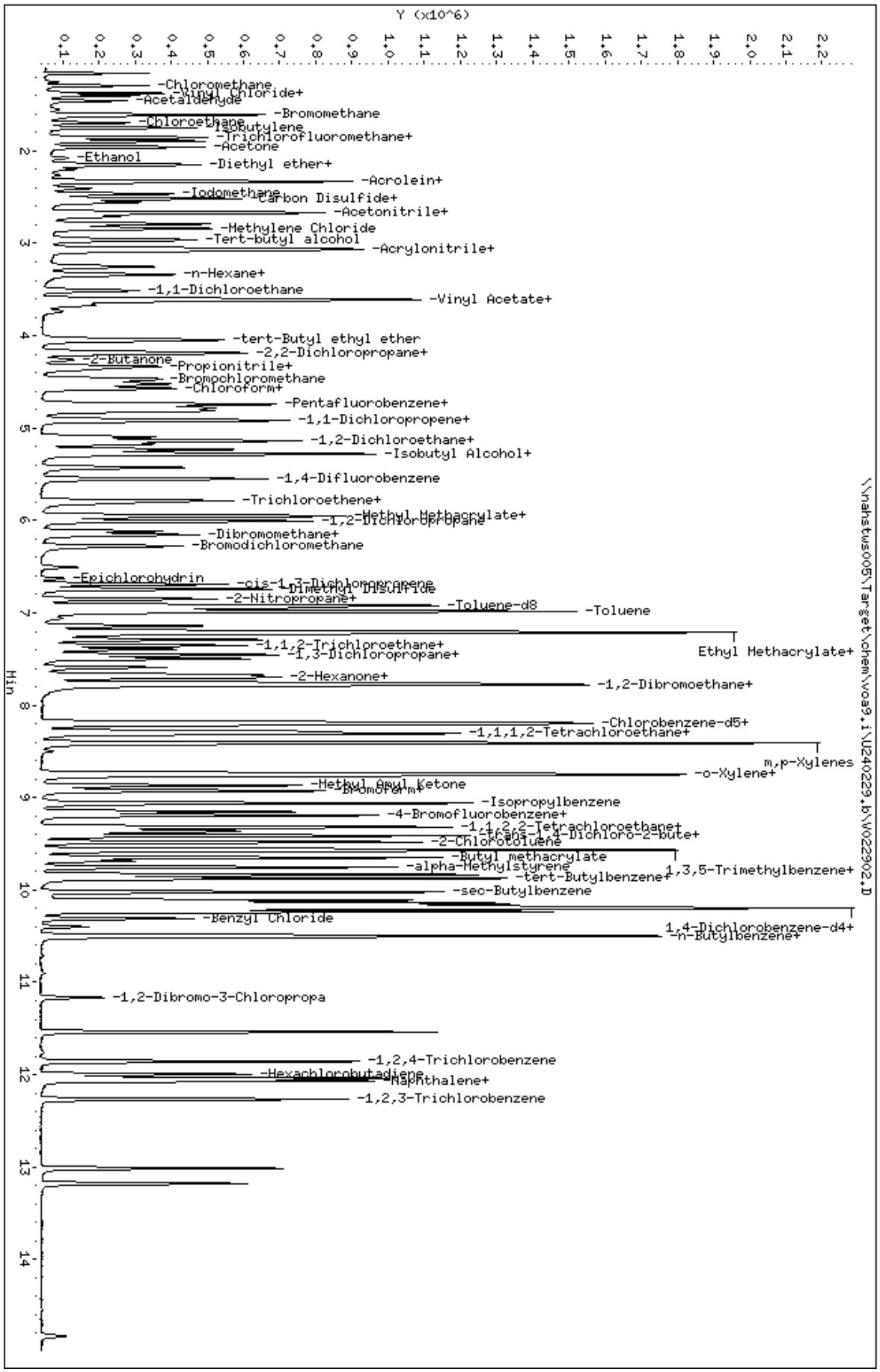
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	657848	50.0000	44.08
81	sec-Butylbenzene	105	10.022	10.022	(0.986)	734666	50.0000	44.40
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	677092	50.0000	44.48
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	391672	50.0000	45.39
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	413368	50.0000	46.33
86	Benzyl Chloride	91	10.311	10.311	(1.260)	274563	50.0000	38.55
87	n-Butylbenzene	91	10.491	10.491	(1.032)	580864	50.0000	45.95
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	398333	50.0000	45.72
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	40459	50.0000	40.81(M)
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	264079	50.0000	45.24
91	Hexachlorobutadiene	225	11.998	11.998	(1.180)	108443	50.0000	41.00
92	Naphthalene	128	12.065	12.065	(1.187)	640467	50.0000	44.74
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	252704	50.0000	45.35
146	Methyl acetate	43	2.708	2.708	(0.563)	192983	50.0000	45.51
138	Freon TF	101	2.333	2.333	(0.485)	147496	50.0000	56.36
141	Cyclohexane	56	4.781	4.781	(0.993)	220401	50.0000	45.49
142	Tetrahydrofuran	42	4.538	4.538	(0.942)	61931	100.000	89.55
147	Methylcyclohexane	55	5.943	5.943	(1.071)	448532	50.0000	49.62
135	1,4-Dioxane	88	6.165	6.165	(1.280)	46605	1000.00	960.38
132	n-Butanol	56	5.816	5.816	(1.208)	118799	1000.00	862.04
136	n-Hexane	57	3.338	3.338	(0.693)	168451	50.0000	48.24
139	Diethyl ether	59	2.142	2.142	(0.445)	136115	50.0000	55.31
148	Tert-butyl alcohol	59	2.960	2.960	(0.615)	477453	1000.00	1002.44
149	Isopropyl alcohol	45	2.555	2.555	(0.531)	288610	1000.00	1038.67
152	Amyl alcohol	42	7.394	7.394	(0.903)	146615	1000.00	883.66
156	Diisopropyl ether	45	3.616	3.616	(0.751)	555130	50.0000	51.96
162	Butyl acrylate	55	8.732	8.732	(1.067)	413697	50.0000	49.00
187	n-Amyl acetate	43	8.927	8.927	(1.091)	336444	50.0000	49.93
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	982447	50.0000	53.68
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	734822	50.0000	50.20
167	Ethanol	45	2.075	2.075	(0.431)	49760	1000.00	1050.63
172	tert-Butyl formate	59	5.231	5.231	(1.086)	317957	100.000	76.43
173	3,3-Dimethyl-1-butanol	57	7.777	7.777	(0.950)	489272	1000.00	889.69
174	tert-Amyl methyl ether	73	5.284	5.284	(1.097)	530197	50.0000	50.52
175	tert-Butyl ethyl ether	59	4.043	4.043	(0.840)	503451	50.0000	49.24
176	tert-Amyl alcohol	59	5.231	5.231	(1.086)	317957	1000.00	769.46
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	1148285	1000.00	831.06
140	1,3-Butadiene	54	1.400	1.400	(0.291)	67180	50.0000	48.61
158	Dichlorofluoromethane	67	1.854	1.854	(0.385)	324183	50.0000	55.34
182	Epichlorohydrin	57	6.629	6.629	(1.195)	50659	200.000	174.08
M 94	1,2-Dichloroethylene (total)	96				329610	100.000	95.84
M 95	Xylenes (total)	106				899132	150.000	143.95
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	278916	50.0000	44.17
130	Ethyl Acetate	43	4.335	4.335	(0.900)	160707	50.0000	40.75
131	Methyl Acrylate	55	4.365	4.365	(0.907)	194010	50.0000	47.03
189	n-Butyl acetate	43	7.705	7.705	(0.941)	289463	50.0000	44.45
134	Cyclohexanone	55	9.152	9.152	(0.900)	265235	1000.00	930.53
185	Isoprene	39	2.154	2.154	(0.447)	54734	50.0000	62.63
188	Isopropyl acetate	43	5.280	5.280	(0.951)	489906	50.0000	48.77
150	Allyl alcohol	57	3.338	3.338	(0.693)	168451	1000.00	960.66
194	Acetaldehyde	44	1.456	1.456	(0.302)	164068	200.000	221.15
195	Methyl Amyl Ketone	43	8.867	8.867	(1.083)	432858	50.0000	51.13

200 Dimethyl Disulfide	94	6.742	6.742 (0.824)	316976	50.0000	46.34
202 Isobutylene	41	1.749	1.749 (0.363)	115618	50.0000	58.00(M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	318958	50.0000	50.09
133 Ethyl Acrylate	55	5.943	5.943	(1.234)	448532	50.0000	47.72
163 Butyl methacrylate	41	9.647	9.647	(0.949)	307675	50.0000	48.33
159 Propylene oxide	43	2.199	2.199	(0.457)	35071	100.000	120.44

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



Data File: \\nahstws005\Target\chem\voa9.i\U240229.b\W022902.D
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Client ID: CCV
Sample Info: CCV,CCV,2,,,
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: FT
Column diameter: 0.18

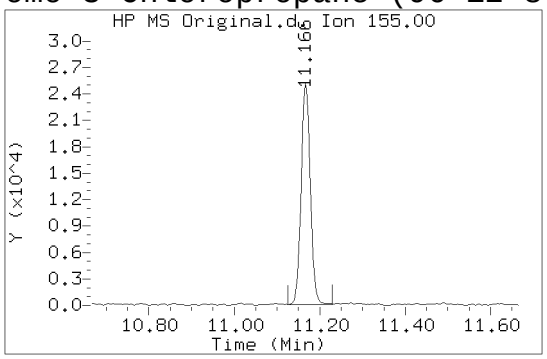
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LabSampID : CCV

1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

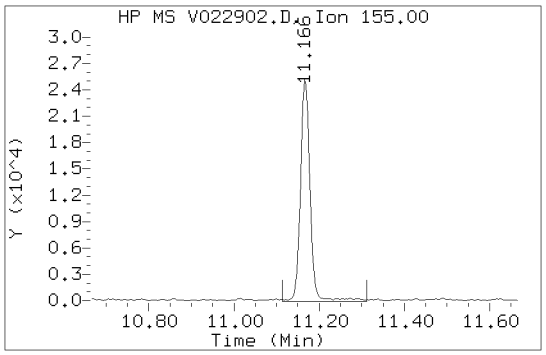
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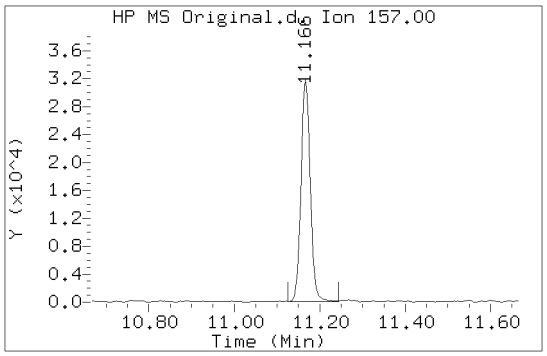
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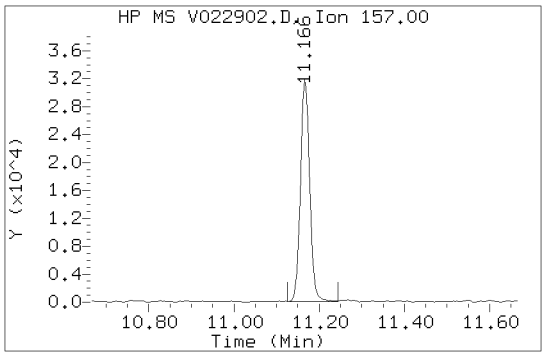
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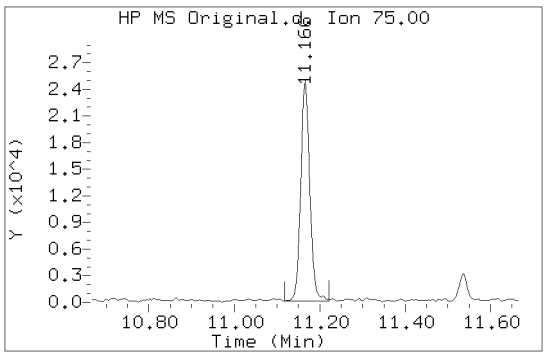
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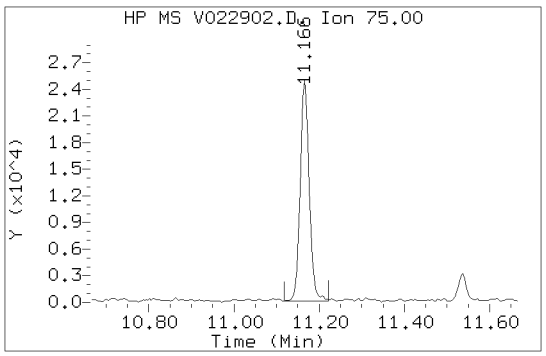
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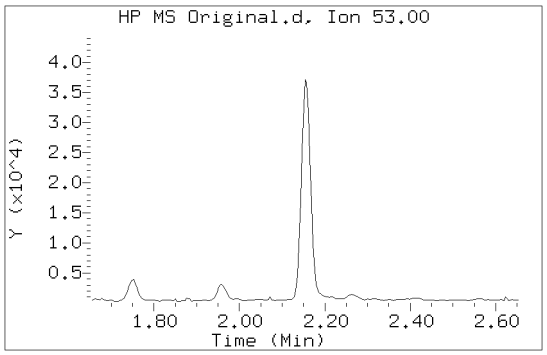


Chloroprene (126-99-8)

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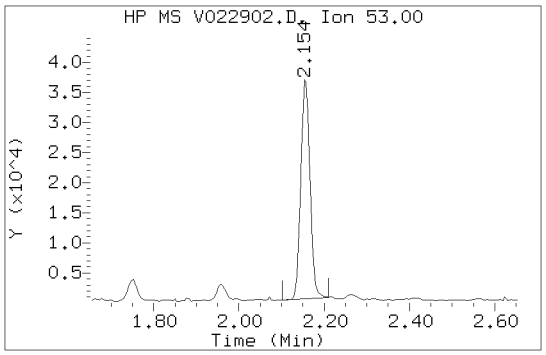
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AFTER

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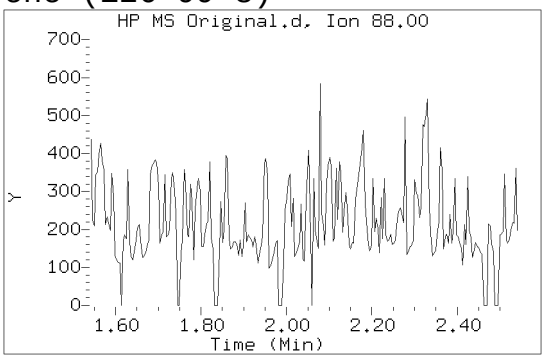


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InstruID : VOA9.i
LabSampID : CCV

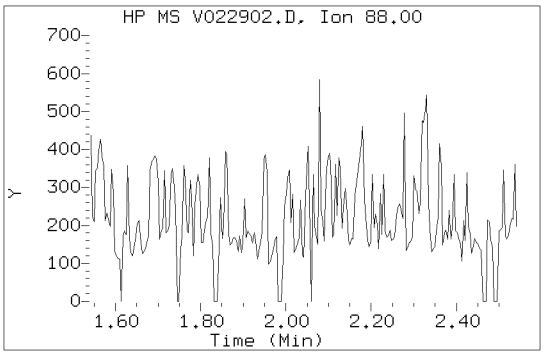
Chloroprene (126-99-8)

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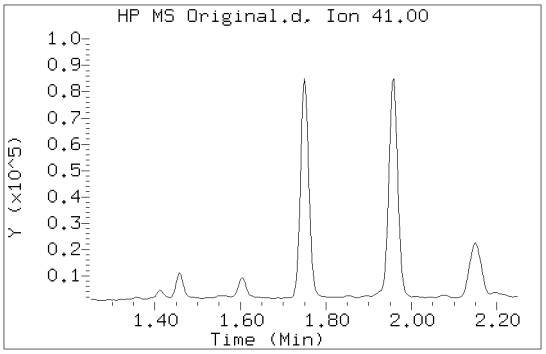
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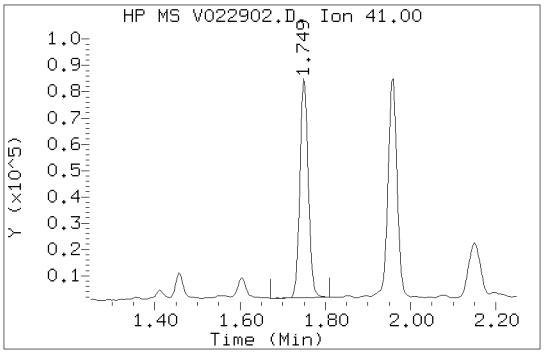
Isobutylene (115-11-7)

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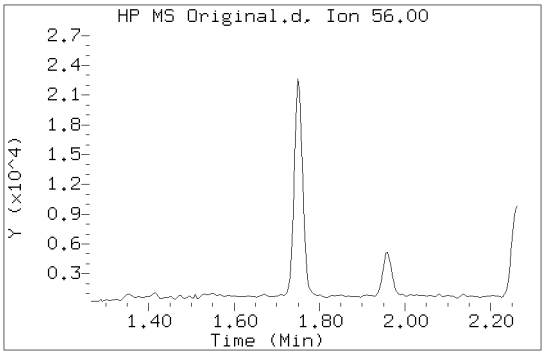
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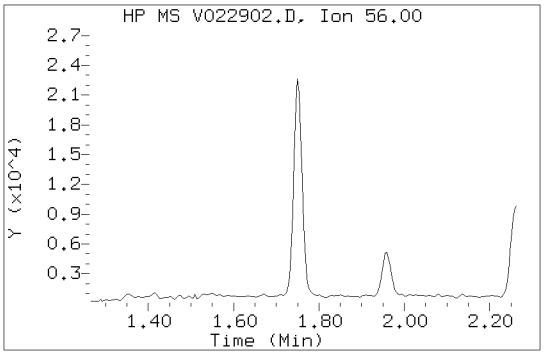
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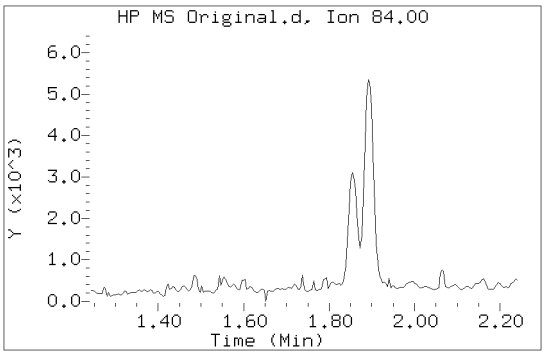
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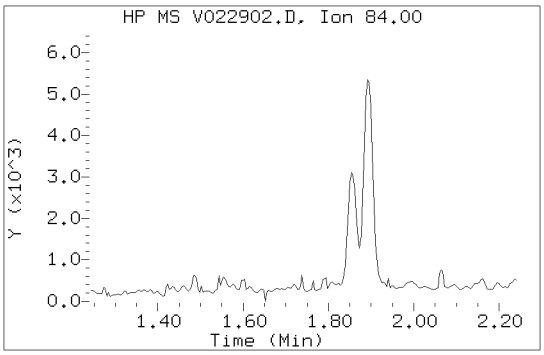
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BEFORE
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29-Feb-2024
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AFTER
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01-Mar-2024
08:53
ALSHS
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Data File: \\nahstws005\Target\chem\voa9.i\U240229.b\V022903.D Page 1
Report Date: 01-Mar-2024 08:52

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240229.b\V022903.D
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Inj Date : 29-FEB-2024 22:40
Operator : FT Inst ID: VOA9.i
Smp Info : VLCSW-240229;VLCSW-240229;3;;LCS
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240229.b\8260C.m
Meth Date : 01-Mar-2024 07:51 Quant Type: ISTD
Cal Date : 27-FEB-2024 11:19 Cal File: U022705.D
Als bottle: 32 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1	Pentafluorobenzene	168	4.823	4.815	(1.000)	348689	50.0000	
2	Dichlorodifluoromethane	85	1.171	1.160	(0.243)	69747	20.9992	20.99
3	Chloromethane	50	1.306	1.295	(0.271)	85213	20.6667	20.66
4	Propionitrile	54	4.339	4.328	(0.900)	99440	195.017	195.01(a)
5	Vinyl Chloride	62	1.385	1.370	(0.287)	87552	22.3367	22.33
6	Bromomethane	94	1.629	1.617	(0.338)	49525	28.4830	28.48
7	Chloroethane	64	1.707	1.696	(0.354)	60489	22.3706	22.37
8	Trichlorofluoromethane	101	1.906	1.895	(0.395)	125545	25.6725	25.67
9	Acrolein	56	2.274	2.262	(0.471)	6945	42.6790	42.67
10	Acetone	43	1.970	1.959	(0.409)	89372	42.2145	42.21
11	1,1-Dichloroethene	96	2.341	2.330	(0.485)	66800	22.6180	22.61
12	Isobutyl Alcohol	43	5.284	5.280	(1.096)	203989	393.236	393.23(a)
13	Acetonitrile	39	2.678	2.667	(0.555)	122495	238.891	238.89(a)
14	Allyl Chloride	41	2.678	2.667	(0.555)	220192	22.5869	22.58(a)
15	Iodomethane	142	2.476	2.465	(0.513)	120710	37.7257	37.72
16	Acrylonitrile	53	3.072	3.061	(0.637)	57313	43.5118	43.51
17	Methylene Chloride	84	2.802	2.791	(0.581)	75279	22.3522	22.35
18	Methyl tert-butyl ether	73	3.087	3.076	(0.640)	218526	22.1849	22.18
19	Carbon Disulfide	76	2.528	2.517	(0.524)	274276	45.6863	45.68
20	trans-1,2-Dichloroethene	96	3.068	3.057	(0.636)	71647	20.9037	20.90

21 Vinyl Acetate	43	3.616	3.604 (0.750)	305706	36.8763	36.87
22 1,1-Dichloroethane	63	3.518	3.511 (0.730)	114627	21.1411	21.14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	23 Chloroprene	53	2.169	2.154	(0.450)	24438	23.3865	23.38(M)
	24 2-Butanone	43	4.272	4.260	(0.886)	47169	33.5312	33.53
	25 Methacrylonitrile	41	4.789	4.781	(0.993)	59568	23.5292	23.52(a)
	26 2,2-Dichloropropane	77	4.189	4.178	(0.869)	91557	18.3528	18.35
	27 cis-1,2-Dichloroethene	96	4.204	4.193	(0.872)	71713	20.5222	20.52
	28 Chloroform	83	4.579	4.571	(0.949)	119726	20.5997	20.59
	29 Bromochloromethane	128	4.474	4.466	(0.928)	37149	20.9468	20.94
$	30 Dibromofluoromethane	113	4.751	4.744	(0.985)	177119	51.9628	51.96
	31 1,1,1-Trichloroethane	97	4.748	4.740	(0.984)	104946	20.2995	20.29
	32 1,1-Dichloropropene	75	4.928	4.920	(0.887)	88056	20.2699	20.26
	33 1,2-Dichloroethane	62	5.179	5.175	(0.933)	96080	19.5282	19.52
	34 Carbon Tetrachloride	117	4.916	4.909	(0.885)	88123	19.4617	19.46
$	35 1,2-Dichloroethane-d4	65	5.100	5.096	(1.058)	201739	49.0905	49.09
*	36 1,4-Difluorobenzene	114	5.554	5.550	(1.000)	514835	50.0000	
	37 Benzene	78	5.141	5.138	(0.926)	264737	20.7575	20.75
	38 Trichloroethene	130	5.790	5.786	(1.043)	73936	19.8246	19.82
	39 Bromodichloromethane	83	6.277	6.277	(1.130)	89028	18.4610	18.46
	40 Methyl Methacrylate	41	5.955	5.951	(1.235)	53337	20.7751	20.77(a)
	42 1,2-Dichloropropane	63	6.011	6.007	(1.082)	69079	20.2765	20.27
	43 2-Nitropropane	43	6.851	6.851	(1.420)	133587	18.7624	18.76
	44 Dibromomethane	93	6.120	6.116	(1.102)	44010	20.9956	20.99
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	133587	35.6916	35.69
	46 cis-1,3-Dichloropropene	75	6.689	6.689	(1.205)	101955	19.1897	19.18
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	487740	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	674361	48.2785	48.27
	49 Ethyl Methacrylate	69	7.214	7.211	(1.299)	86676	17.2610	17.26(a)
	50 Toluene	91	6.982	6.978	(0.853)	291500	19.3900	19.38
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	90980	20.3260	20.32
	52 2-Hexanone	43	7.705	7.705	(0.941)	114898	39.0698	39.06
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	52235	18.8218	18.82
	54 1,3-Dichloropropane	76	7.499	7.495	(0.916)	114679	19.2305	19.23
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	76365	18.9197	18.91
	56 Tetrachloroethene	164	7.458	7.454	(0.911)	63175	19.7454	19.74
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	65268	19.3854	19.38
	58 1-Chlorohexane	55	8.196	8.196	(1.476)	63435	20.3953	20.39
	59 Chlorobenzene	112	8.211	8.208	(1.003)	195554	19.6715	19.67
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	70348	19.3036	19.30
	61 Ethylbenzene	106	8.305	8.305	(1.015)	102824	20.4046	20.40
	62 m,p-Xylenes	106	8.410	8.406	(1.027)	259924	40.6543	40.65
	63 o-Xylene	106	8.748	8.747	(1.069)	129311	20.7273	20.72
	64 Styrene	104	8.763	8.762	(1.071)	224953	20.3272	20.32
	66 Bromoform	173	8.916	8.916	(1.089)	57598	18.0781	18.07
	67 Isopropylbenzene	105	9.062	9.062	(1.107)	322364	20.0954	20.09
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	91570	18.3583	18.35
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	255512	50.7396	50.73
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	272546	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.921)	93136	17.6868	17.68
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	17086	15.2298	15.22(a)
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	358631	19.6601	19.66
	74 Bromobenzene	156	9.317	9.317	(0.916)	92619	19.5637	19.56
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	271469	18.8267	18.82
	76 2-Chlorotoluene	91	9.482	9.482	(0.933)	220035	18.6723	18.67

77	4-Chlorotoluene	91	9.576	9.576 (0.942)	263507	19.3485	19.34
78	tert-Butylbenzene	119	9.835	9.835 (0.967)	233864	19.7510	19.75

Data File: \\nahstws005\Target\chem\voa9.i\U240229.b\V022903.D Page 3
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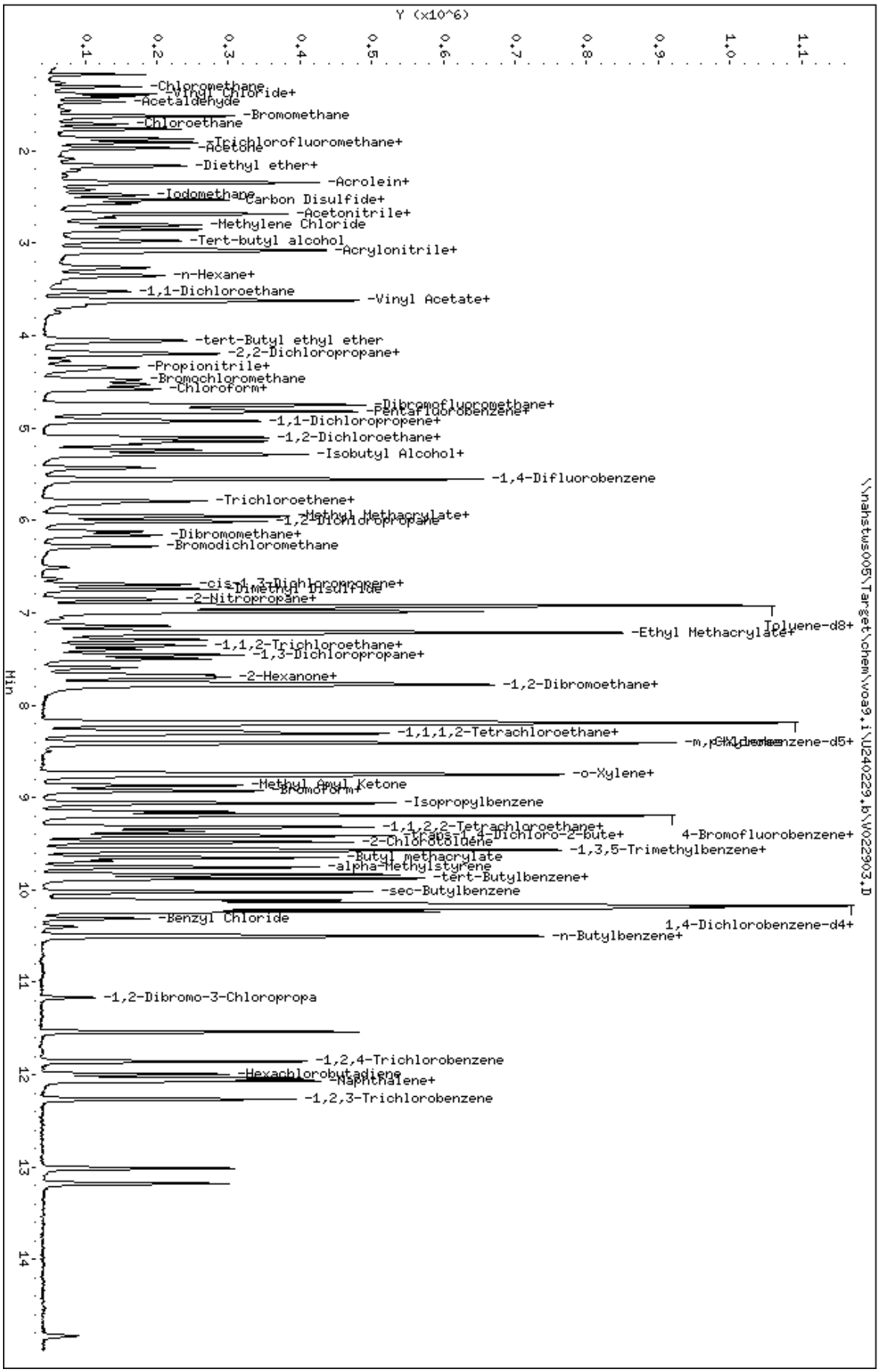
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	273756	19.3826	19.38
81	sec-Butylbenzene	105	10.022	10.022	(0.986)	306112	19.5461	19.54
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	282597	19.6133	19.61
83	1,3-Dichlorobenzene	146	10.116	10.112	(0.995)	163345	20.0008	20.00
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	172242	20.3982	20.39
86	Benzyl Chloride	91	10.311	10.311	(1.260)	98573	15.2362	15.23
87	n-Butylbenzene	91	10.491	10.491	(1.032)	243947	20.3871	20.38
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	167243	20.2819	20.28
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	16425	17.5047	17.50
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	114648	20.7491	20.74
91	Hexachlorobutadiene	225	11.998	11.998	(1.180)	49076	19.6042	19.60
92	Naphthalene	128	12.065	12.065	(1.187)	279541	20.6303	20.63
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	112737	21.3776	21.37
146	Methyl acetate	43	2.720	2.708	(0.564)	80849	18.8403	18.84
138	Freon TF	101	2.345	2.333	(0.486)	64464	24.3399	24.33
141	Cyclohexane	56	4.789	4.781	(0.993)	99128	20.7799	20.77
142	Tetrahydrofuran	42	4.545	4.538	(0.942)	29630	42.9064	42.90
147	Methylcyclohexane	55	5.947	5.943	(1.071)	184273	20.4625	20.46
135	1,4-Dioxane	88	6.168	6.165	(1.279)	20009	414.274	414.27
132	n-Butanol	56	5.820	5.816	(1.207)	52297	374.967	374.96(a)
136	n-Hexane	57	3.349	3.338	(0.695)	74384	22.0773	22.07
139	Diethyl ether	59	2.154	2.142	(0.447)	57104	23.3983	23.39
148	Tert-butyl alcohol	59	2.971	2.960	(0.616)	206944	429.321	429.32
149	Isopropyl alcohol	45	2.566	2.555	(0.532)	119580	425.235	425.23
152	Amyl alcohol	42	7.398	7.394	(0.904)	61077	372.194	372.19
156	Diisopropyl ether	45	3.627	3.616	(0.752)	227684	21.0605	21.06
162	Butyl acrylate	55	8.733	8.732	(1.067)	158953	19.0386	19.03
187	n-Amyl acetate	43	8.931	8.927	(1.091)	134836	20.2334	20.23
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	403025	23.4797	23.47
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	285907	20.6377	20.63
167	Ethanol	45	2.086	2.075	(0.433)	21020	438.536	438.53
172	tert-Butyl formate	59	5.239	5.231	(1.086)	157866	37.5000	37.50
173	3,3-Dimethyl-1-butanol	57	7.777	7.777	(0.950)	221606	421.266	421.26
174	tert-Amyl methyl ether	73	5.287	5.284	(1.096)	212544	20.0151	20.01
175	tert-Butyl ethyl ether	59	4.054	4.043	(0.841)	207169	20.0215	20.02
176	tert-Amyl alcohol	59	5.239	5.231	(1.086)	157866	377.495	377.49
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.299)	552049	387.353	387.35
140	1,3-Butadiene	54	1.411	1.400	(0.293)	27637	20.5747	20.57
158	Dichlorofluoromethane	67	1.865	1.854	(0.387)	135631	22.8783	22.87
182	Epichlorohydrin	57	6.633	6.629	(1.194)	21393	75.8050	75.80
M 94	1,2-Dichloroethylene (total)	96				143360	43.1834	43.18
M 95	Xylenes (total)	106				389235	63.0256	63.02
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	114303	19.1231	19.12
130	Ethyl Acetate	43	4.347	4.335	(0.901)	69259	17.3563	17.35
131	Methyl Acrylate	55	4.373	4.365	(0.907)	80372	20.0601	20.06
189	n-Butyl acetate	43	7.705	7.705	(0.941)	114616	19.2434	19.24
134	Cyclohexanone	55	9.152	9.152	(0.900)	106777	402.912	402.91(a)
185	Isoprene	39	2.169	2.154	(0.450)	28205	31.8933	31.89
188	Isopropyl acetate	43	5.284	5.280	(0.951)	205570	19.8425	19.84
150	Allyl alcohol	57	3.349	3.338	(0.695)	74384	436.231	436.23
194	Acetaldehyde	44	1.468	1.456	(0.304)	86839	115.660	115.66
195	Methyl Amyl Ketone	43	8.867	8.867	(1.083)	172936	20.6575	20.65

200 Dimethyl Disulfide	94	6.746	6.742 (0.824)	126554	18.7078	18.70
203 2-Ethylhexyl Acrylate	55	12.039	12.039 (1.184)	130347	21.6294	21.62

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
133 Ethyl Acrylate	55	5.947	5.943	(1.233)	184273	19.3737	19.37
163 Butyl methacrylate	41	9.647	9.647	(0.949)	114974	18.7948	18.79
159 Propylene oxide	43	2.210	2.199	(0.458)	14670	48.9123	48.91

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Column phase: DB624

Instrument: VOA9.i
Operator: FT
Column diameter: 0.18

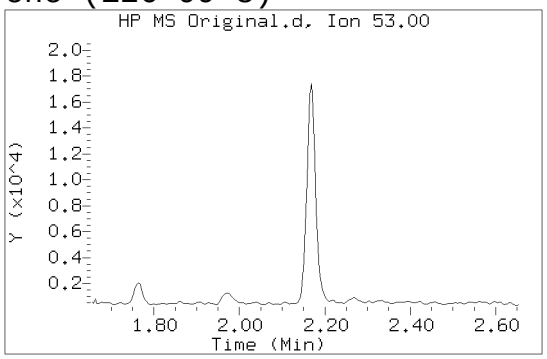
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LabSampID : VLCSW-240229

Chloroprene (126-99-8)

Reason Code:

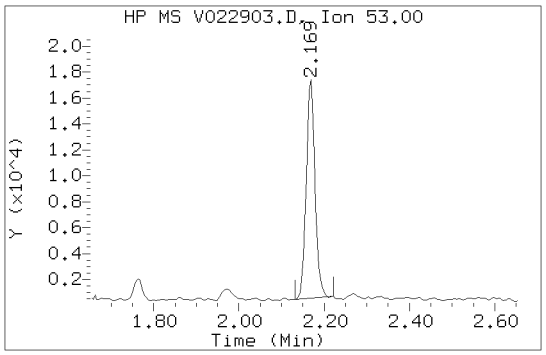
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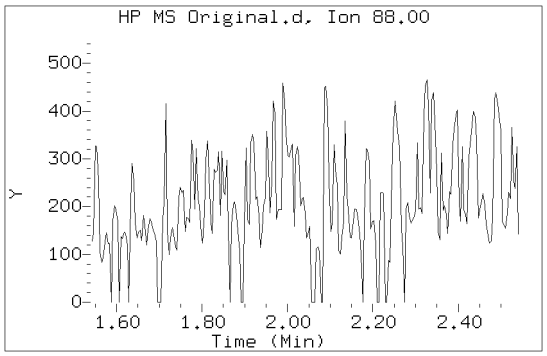
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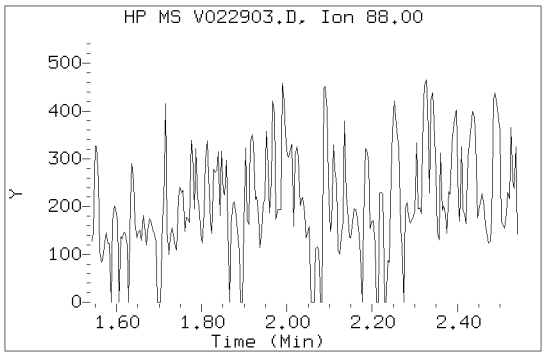
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AFTER

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Data File: \\nahstws005\Target\chem\voa9.i\U240229.b\V022904.D Page 1
Report Date: 29-Feb-2024 23:19

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240229.b\V022904.D
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Operator : FT Inst ID: VOA9.i
Smp Info : VLCSDW-240229;VLCSDW-240229;3;;LCSD
Misc Info : V9;WATER;0;1;
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Meth Date : 29-Feb-2024 22:34 Quant Type: ISTD
Cal Date : 27-FEB-2024 11:19 Cal File: U022705.D
Als bottle: 32 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.819	4.815	(1.000)	345858	50.0000	
2 Dichlorodifluoromethane	85	1.167	1.160	(0.242)	65652	19.9281	19.92
3 Chloromethane	50	1.302	1.295	(0.270)	80519	19.6881	19.68
4 Propionitrile	54	4.335	4.328	(0.900)	90209	178.362	178.36(a)
5 Vinyl Chloride	62	1.381	1.370	(0.287)	80828	20.7900	20.79
6 Bromomethane	94	1.625	1.617	(0.337)	47788	27.7028	27.70
7 Chloroethane	64	1.703	1.696	(0.354)	55709	20.7714	20.77
8 Trichlorofluoromethane	101	1.902	1.895	(0.395)	118086	24.3449	24.34
9 Acrolein	56	2.269	2.262	(0.471)	6521	40.4257	40.42
10 Acetone	43	1.966	1.959	(0.408)	85608	40.7675	40.76
11 1,1-Dichloroethene	96	2.337	2.330	(0.485)	63884	21.8077	21.80
12 Isobutyl Alcohol	43	5.283	5.280	(1.096)	191384	371.957	371.95(a)
13 Acetonitrile	39	2.674	2.667	(0.555)	114055	224.252	224.25(a)
14 Allyl Chloride	41	2.674	2.667	(0.555)	212614	22.0040	22.00(a)
15 Iodomethane	142	2.472	2.465	(0.513)	119502	37.6652	37.66
16 Acrylonitrile	53	3.068	3.061	(0.637)	51402	39.4190	39.41
17 Methylene Chloride	84	2.798	2.791	(0.581)	75318	22.5390	22.53
18 Methyl tert-butyl ether	73	3.083	3.076	(0.640)	210949	21.5910	21.59
19 Carbon Disulfide	76	2.524	2.517	(0.524)	260249	43.7046	43.70
20 trans-1,2-Dichloroethene	96	3.064	3.057	(0.636)	72473	21.3178	21.31

21 Vinyl Acetate	43	3.611	3.604 (0.750)	291596	35.4622	35.46
22 1,1-Dichloroethane	63	3.518	3.511 (0.730)	110616	20.5683	20.56

Data File: \\nahstws005\Target\chem\voa9.i\U240229.b\V022904.D Page 2
Report Date: 29-Feb-2024 23:19

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	23 Chloroprene	53	2.164	2.161	(0.449)	23621	22.7897	22.78
	24 2-Butanone	43	4.264	4.260	(0.885)	43449	31.1396	31.13
	25 Methacrylonitrile	41	4.789	4.781	(0.994)	55697	22.1416	22.14(a)
	26 2,2-Dichloropropane	77	4.185	4.178	(0.869)	88128	17.8101	17.81
	27 cis-1,2-Dichloroethene	96	4.200	4.193	(0.872)	70161	20.2424	20.24
	28 Chloroform	83	4.575	4.571	(0.949)	115524	20.0394	20.03
	29 Bromochloromethane	128	4.474	4.466	(0.928)	35627	20.2531	20.25
$	30 Dibromofluoromethane	113	4.747	4.744	(0.985)	170745	50.5130	50.51
	31 1,1,1-Trichloroethane	97	4.744	4.740	(0.984)	103074	20.1006	20.10
	32 1,1-Dichloropropene	75	4.924	4.920	(0.887)	86742	20.3434	20.34
	33 1,2-Dichloroethane	62	5.178	5.175	(0.933)	91456	18.9384	18.93
	34 Carbon Tetrachloride	117	4.912	4.909	(0.885)	86680	19.4996	19.49
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	201429	49.4131	49.41
*	36 1,4-Difluorobenzene	114	5.553	5.550	(1.000)	505320	50.0000	
	37 Benzene	78	5.141	5.138	(0.926)	257251	20.5504	20.55
	38 Trichloroethene	130	5.789	5.786	(1.043)	75462	20.6147	20.61
	39 Bromodichloromethane	83	6.277	6.277	(1.130)	88478	18.6925	18.69
	40 Methyl Methacrylate	41	5.954	5.951	(1.236)	50950	20.0077	20.00(a)
	42 1,2-Dichloropropane	63	6.011	6.007	(1.082)	66547	19.9011	19.90
	43 2-Nitropropane	43	6.850	6.851	(1.422)	120157	17.0142	17.01
	44 Dibromomethane	93	6.119	6.116	(1.102)	43337	21.0639	21.06
	45 4-Methyl-2-Pentanone	43	6.850	6.851	(0.837)	120157	33.5869	33.58
	46 cis-1,3-Dichloropropene	75	6.689	6.689	(1.205)	105326	20.1975	20.19
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	466196	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	664109	49.7416	49.74
	49 Ethyl Methacrylate	69	7.210	7.211	(1.298)	77532	15.7307	15.73(a)
	50 Toluene	91	6.982	6.978	(0.853)	286111	19.9110	19.91
	51 trans-1,3-Dichloropropene	75	7.195	7.196	(1.296)	85489	19.4589	19.45
	52 2-Hexanone	43	7.705	7.705	(0.941)	104071	37.0236	37.02
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	51685	19.4842	19.48
	54 1,3-Dichloropropane	76	7.499	7.495	(0.916)	110971	19.4686	19.46
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	73937	19.1647	19.16
	56 Tetrachloroethene	164	7.458	7.454	(0.911)	60804	19.8826	19.88
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	61642	19.1545	19.15
	58 1-Chlorohexane	55	8.196	8.196	(1.476)	58617	19.2267	19.22
	59 Chlorobenzene	112	8.207	8.208	(1.003)	188800	19.8698	19.86
	60 1,1,1,2-Tetrachloroethane	131	8.282	8.283	(1.012)	70036	20.1061	20.10
	61 Ethylbenzene	106	8.305	8.305	(1.015)	95805	19.8903	19.89
	62 m,p-Xylenes	106	8.410	8.406	(1.027)	249425	40.8150	40.81
	63 o-Xylene	106	8.747	8.747	(1.069)	122153	20.4848	20.48
	64 Styrene	104	8.762	8.762	(1.071)	216684	20.4849	20.48
	66 Bromoform	173	8.916	8.916	(1.089)	53480	17.5613	17.56
	67 Isopropylbenzene	105	9.062	9.062	(1.107)	311571	20.3201	20.32
	68 1,1,2,2-Tetrachloroethane	83	9.328	9.329	(0.917)	87690	18.0075	18.00
$	69 4-Bromofluorobenzene	95	9.193	9.194	(1.123)	243506	50.5901	50.59
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	266082	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.921)	84669	16.4695	16.46
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	15852	14.7828	14.78(a)
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	343735	19.3013	19.30
	74 Bromobenzene	156	9.317	9.317	(0.916)	88128	19.0673	19.06
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	265466	18.8577	18.85
	76 2-Chlorotoluene	91	9.482	9.482	(0.933)	224840	19.5435	19.54

77	4-Chlorotoluene	91	9.576	9.576 (0.942)	257886	19.3958	19.39
78	tert-Butylbenzene	119	9.834	9.835 (0.967)	222476	19.2457	19.24

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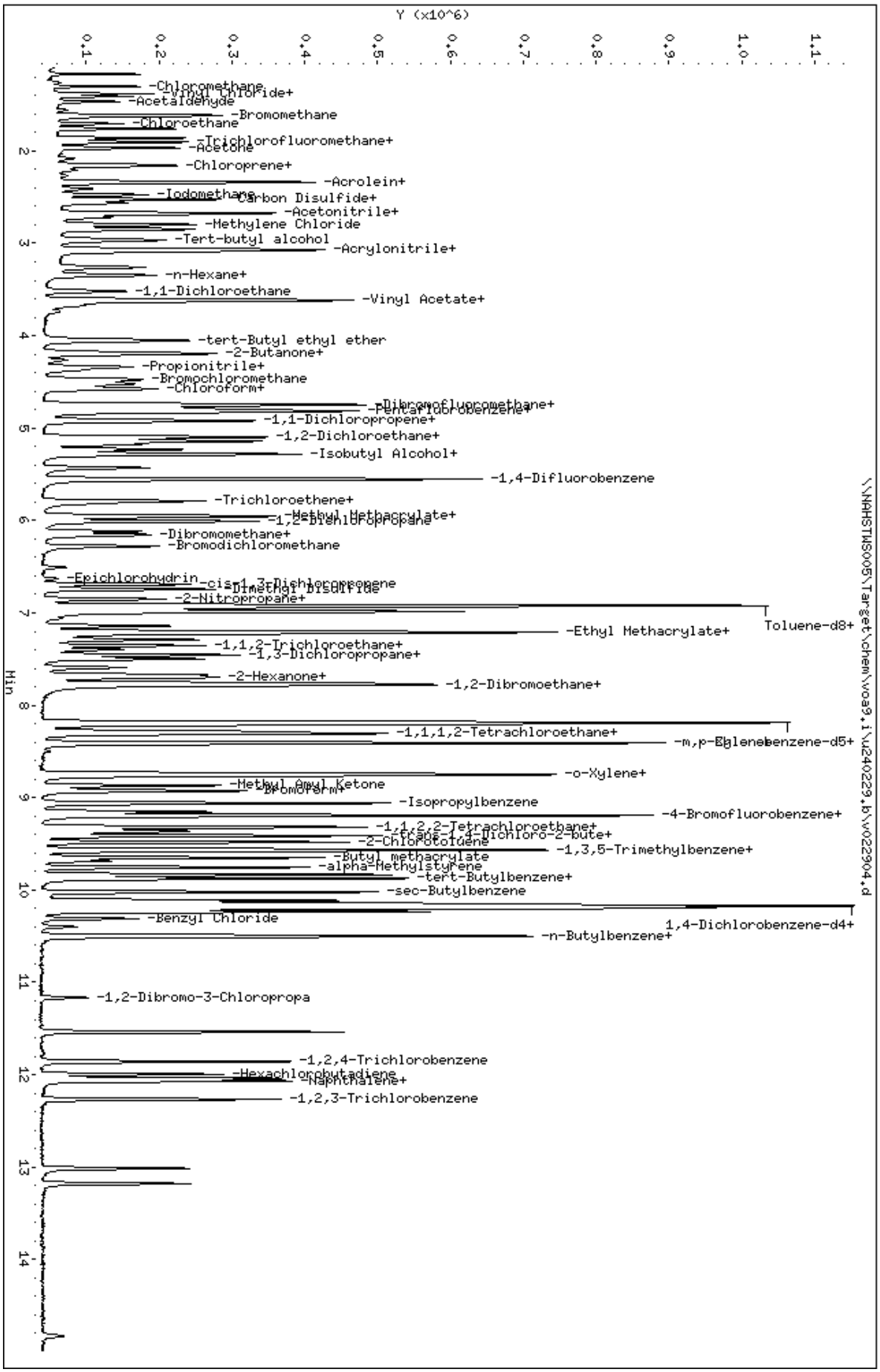
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	268637	19.4823	19.48
81	sec-Butylbenzene	105	10.022	10.022	(0.986)	299699	19.6015	19.60
82	p-Isopropyltoluene	119	10.145	10.146	(0.998)	274431	19.5093	19.50
83	1,3-Dichlorobenzene	146	10.115	10.112	(0.995)	160286	20.1030	20.10
84	1,4-Dichlorobenzene	146	10.190	10.191	(1.002)	165662	20.0955	20.09
86	Benzyl Chloride	91	10.310	10.311	(1.260)	87118	14.2114	14.21
87	n-Butylbenzene	91	10.490	10.491	(1.032)	231027	19.7764	19.77
88	1,2-Dichlorobenzene	146	10.505	10.506	(1.033)	160642	19.9546	19.95
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	14543	15.8755	15.87
90	1,2,4-Trichlorobenzene	180	11.859	11.855	(1.166)	108879	20.1837	20.18
91	Hexachlorobutadiene	225	11.997	11.998	(1.180)	46780	19.1410	19.14
92	Naphthalene	128	12.065	12.065	(1.187)	249717	18.8769	18.87
93	1,2,3-Trichlorobenzene	180	12.267	12.268	(1.206)	102088	19.8286	19.82
146	Methyl acetate	43	2.716	2.708	(0.564)	73562	17.2825	17.28
138	Freon TF	101	2.341	2.333	(0.486)	64195	24.4367	24.43
141	Cyclohexane	56	4.789	4.781	(0.994)	99016	20.9192	20.91
142	Tetrahydrofuran	42	4.537	4.538	(0.942)	24696	36.2271	36.22
147	Methylcyclohexane	55	5.947	5.943	(1.071)	174466	19.7792	19.77
135	1,4-Dioxane	88	6.168	6.165	(1.280)	17297	361.314	361.31
132	n-Butanol	56	5.816	5.816	(1.207)	44476	321.501	321.50(a)
136	n-Hexane	57	3.345	3.338	(0.694)	69798	20.9841	20.98
139	Diethyl ether	59	2.149	2.142	(0.446)	52816	21.8723	21.87
148	Tert-butyl alcohol	59	2.963	2.960	(0.615)	175719	367.526	367.52
149	Isopropyl alcohol	45	2.562	2.555	(0.532)	108119	387.626	387.62
152	Amyl alcohol	42	7.398	7.394	(0.904)	49782	317.383	317.38
156	Diisopropyl ether	45	3.623	3.616	(0.752)	222946	20.7910	20.79
162	Butyl acrylate	55	8.732	8.732	(1.067)	150185	18.8197	18.81
187	n-Amyl acetate	43	8.931	8.927	(1.091)	124590	19.5598	19.55
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	385597	23.0177	23.01
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	274113	20.2671	20.26
167	Ethanol	45	2.082	2.075	(0.432)	18833	396.126	396.12
172	tert-Butyl formate	59	5.231	5.231	(1.086)	116373	27.8699	27.86
173	3,3-Dimethyl-1-butanol	57	7.776	7.777	(0.950)	182317	366.150	366.14
174	tert-Amyl methyl ether	73	5.283	5.284	(1.096)	207060	19.6583	19.65
175	tert-Butyl ethyl ether	59	4.050	4.043	(0.841)	204151	19.8913	19.89
176	tert-Amyl alcohol	59	5.231	5.231	(1.086)	116373	280.553	280.55
151	4-Methyl-2-pentanol	45	7.210	7.214	(1.298)	482407	344.861	344.86
140	1,3-Butadiene	54	1.407	1.400	(0.292)	27737	20.8020	20.80
158	Dichlorofluoromethane	67	1.861	1.854	(0.386)	131890	22.4294	22.42
182	Epichlorohydrin	57	6.629	6.629	(1.194)	18658	68.2136	68.21
M 94	1,2-Dichloroethylene (total)	96				142634	43.3057	43.30
M 95	Xylenes (total)	106				371578	61.4226	61.42
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	111600	19.1244	19.12
130	Ethyl Acetate	43	4.339	4.335	(0.900)	64261	16.2357	16.23
131	Methyl Acrylate	55	4.369	4.365	(0.907)	76441	19.2914	19.29
189	n-Butyl acetate	43	7.705	7.705	(0.941)	104900	18.5284	18.52
134	Cyclohexanone	55	9.152	9.152	(0.900)	94029	364.649	364.64(a)
185	Isoprene	39	2.164	2.154	(0.449)	26924	30.6940	30.69
188	Isopropyl acetate	43	5.283	5.280	(0.951)	187048	18.3946	18.39
150	Allyl alcohol	57	3.345	3.338	(0.694)	69798	414.321	414.32
194	Acetaldehyde	44	1.463	1.456	(0.304)	81238	109.086	109.08
195	Methyl Amyl Ketone	43	8.867	8.867	(1.083)	150371	18.7921	18.79

200 Dimethyl Disulfide	94	6.745	6.742 (0.824)	122172	18.8946	18.89
203 2-Ethylhexyl Acrylate	55	12.039	12.039 (1.184)	113034	19.2122	19.21

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
133 Ethyl Acrylate	55	5.947	5.943	(1.234)	174466	18.4927	18.49
163 Butyl methacrylate	41	9.647	9.647	(0.949)	109976	18.4050	18.40
159 Propylene oxide	43	2.202	2.199	(0.457)	13171	43.7395	43.73

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).



Data File: \\NAHSTWS005\Target\chem\voa9,i\u240229,b\v022904,d
Date : 29-FEB-2024 23:02
Client ID: VLCSDW-240229
Sample Info: VLCSDW-240229;VLCSDW-240229;3;;LCSD
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: FT
Column diameter: 0.18

Data File : \\nahstws005\target\chem\voa9.i\u240229.b\v022904.d
Inj Date : 29-FEB-2024 23:02
InstruID : VOA9.i
LabSampID : VLCSDW-240229

NO MANUAL INTEGRATIONS

Data File: \\nahstws005\Target\chem\voa9.i\U240229.b\V022906.D Page 1
Report Date: 01-Mar-2024 09:13

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240229.b\V022906.D
Lab Smp Id: VBLKW-240229 Client Smp ID: VBLKW-240229
Inj Date : 29-FEB-2024 23:46
Operator : FT Inst ID: VOA9.i
Smp Info : VBLKW-240229;VBLKW-240229;3;;BLANK
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240229.b\8260C.m
Meth Date : 01-Mar-2024 07:51 Quant Type: ISTD
Cal Date : 27-FEB-2024 11:19 Cal File: U022705.D
Als bottle: 34 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTWS005

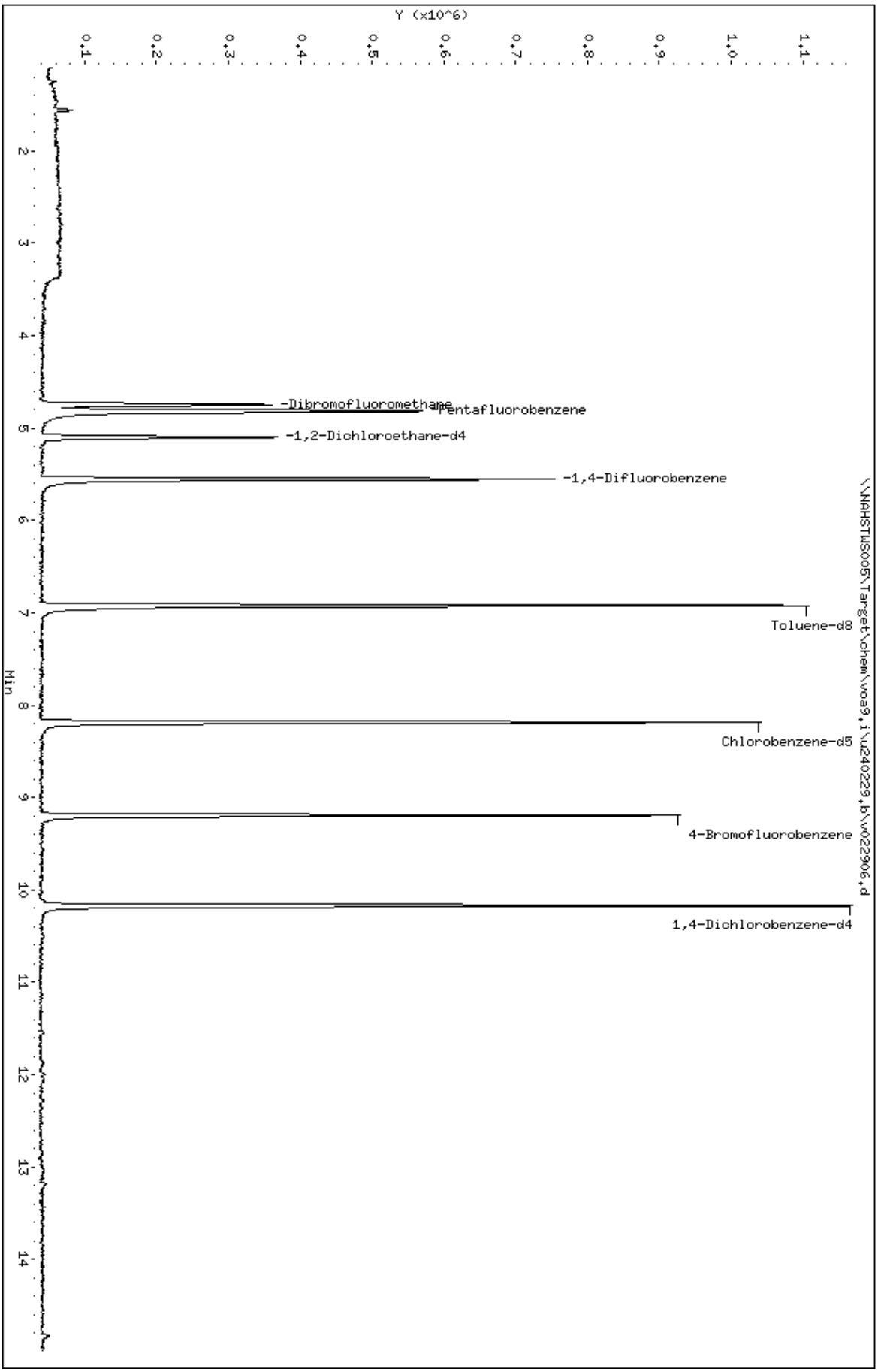
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.815	4.815	(1.000)	459301	50.0000	
$ 30 Dibromofluoromethane	113	4.748	4.744	(0.986)	188294	42.0079	42.00
$ 35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	219246	40.5850	40.58(M)
* 36 1,4-Difluorobenzene	114	5.554	5.550	(1.000)	632112	50.0000	
* 47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	576504	50.0000	
$ 48 Toluene-d8	98	6.922	6.922	(0.846)	738334	44.7198	44.71(M)
$ 69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	267163	44.8863	44.88
* 70 1,4-Dichlorobenzene-d4	152	10.172	10.168	(1.000)	315721	50.0000	

QC Flag Legend

M - Compound response manually integrated.


Data File: \\NAHSTWS005\Target\chem\voa9.i\u240229.b\v022906.d
Date : 29-FEB-2024 23:46
Client ID: VBLKW-240229
Sample Info: VBLKW-240229;VBLKW-240229;3;;BLANK
Purge Volume: 5.0
Column phase: DB624
Instrument: VOA9.i
Operator: FT
Column diameter: 0.18
Page 1
Y (x10^6)
Min
-Dibromofluoromethane
Pentafluorobenzene
-1,2-Dichloroethane-d4
-1,4-Difluorobenzene
Toluene-d8
Chlorobenzene-d5
4-Bromofluorobenzene
1,4-Dichlorobenzene-d4
\\NAHSTWS005\Target\chem\voa9.i\u240229.b\v022906.d

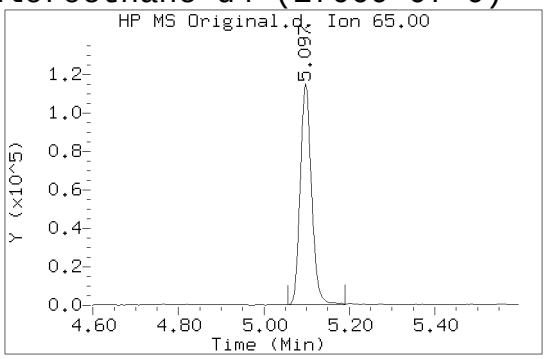
Data File : \\nahstws005\target\chem\voa9.i\u240229.b\v022906.d
Inj Date : 29-FEB-2024 23:46
InstruID : VOA9.i
LabSampID : VBLKW-240229

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

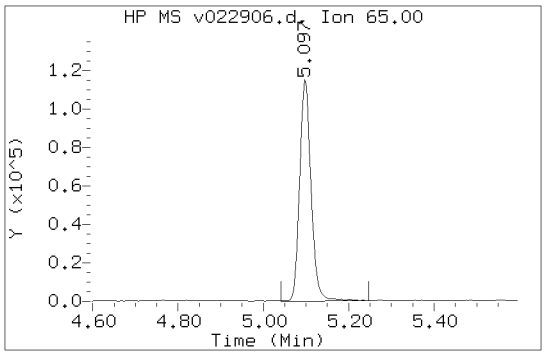
BEFORE

MASS
65
AREA
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HEIGHT
114844
01-Mar-2024
00:04
ALSHS
Server



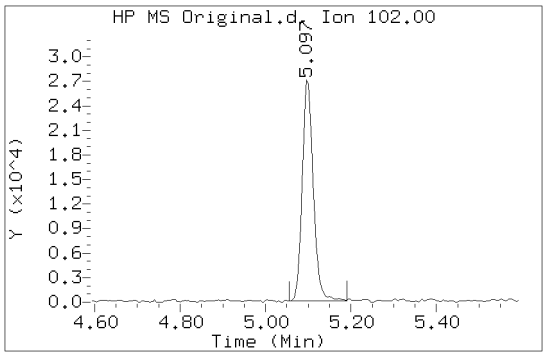
AFTER

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AREA
219246
HEIGHT
115181
01-Mar-2024
09:13
ALSHS
Server



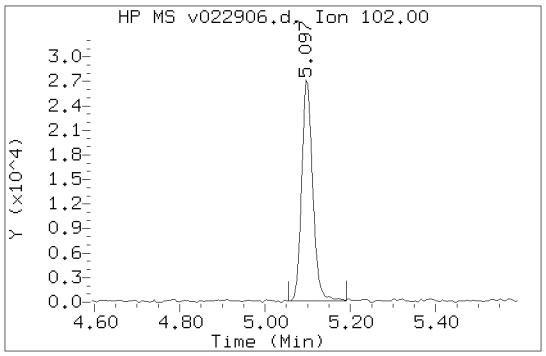
BEFORE

MASS
102
AREA
49606
HEIGHT
27002
01-Mar-2024
00:04
ALSHS
Server



AFTER

MASS
102
AREA
49606
HEIGHT
27002
01-Mar-2024
09:13
ALSHS
Server

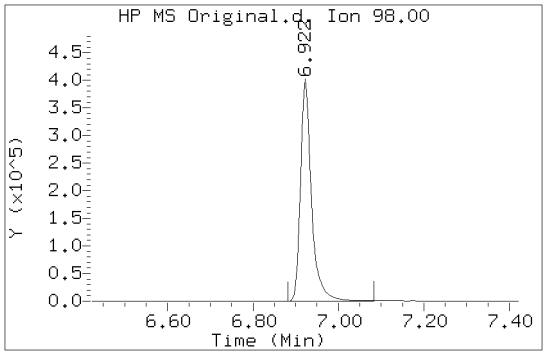


Toluene-d8 (2037-26-5)

Reason Code:

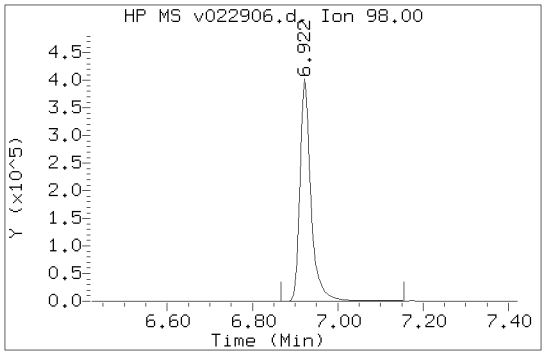
BEFORE

MASS
98
AREA
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HEIGHT
402333
01-Mar-2024
00:04
ALSHS
Server



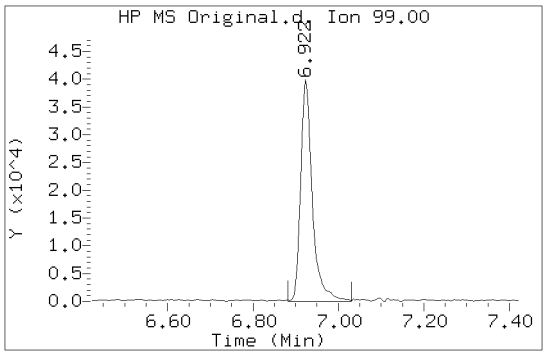
AFTER

MASS
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AREA
738334
HEIGHT
402481
01-Mar-2024
09:13
ALSHS
Server



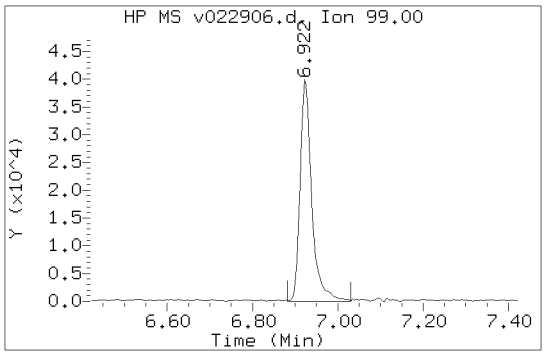
BEFORE

MASS
99
AREA
77537
HEIGHT
39912
01-Mar-2024
00:04
ALSHS
Server



AFTER

MASS
99
AREA
77537
HEIGHT
39912
01-Mar-2024
09:13
ALSHS
Server



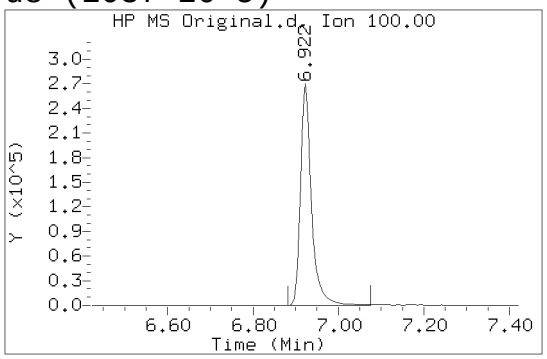
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Inj Date : 29-FEB-2024 23:46
InstruID : VOA9.i
LabSampID : VBLKW-240229

Toluene-d8 (2037-26-5)

Reason Code:

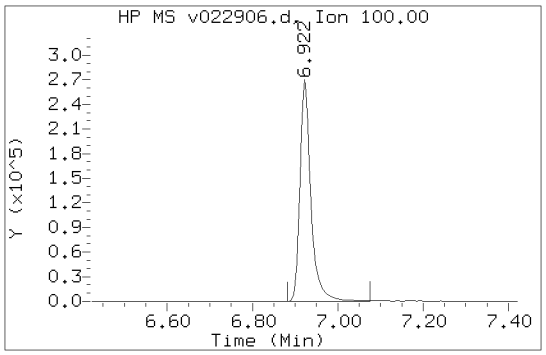
BEFORE

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AREA
489159
HEIGHT
269839
01-Mar-2024
00:04
ALSHS
Server



AFTER

MASS
100
AREA
489159
HEIGHT
269839
01-Mar-2024
09:13
ALSHS
Server



Data File: \\nahstws005\Target\chem\voa9.i\U240229.b\V022908.D Page 1
Report Date: 01-Mar-2024 09:14

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240229.b\V022908.D
Lab Smp Id: HS24021563-09
Inj Date : 01-MAR-2024 00:31
Operator : FT   Inst ID: VOA9.i
Smp Info : HS24021563-09
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240229.b\8260C.m
Meth Date : 01-Mar-2024 07:51   Quant Type: ISTD
Cal Date : 27-FEB-2024 11:19   Cal File: U022705.D
Als bottle: 36
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

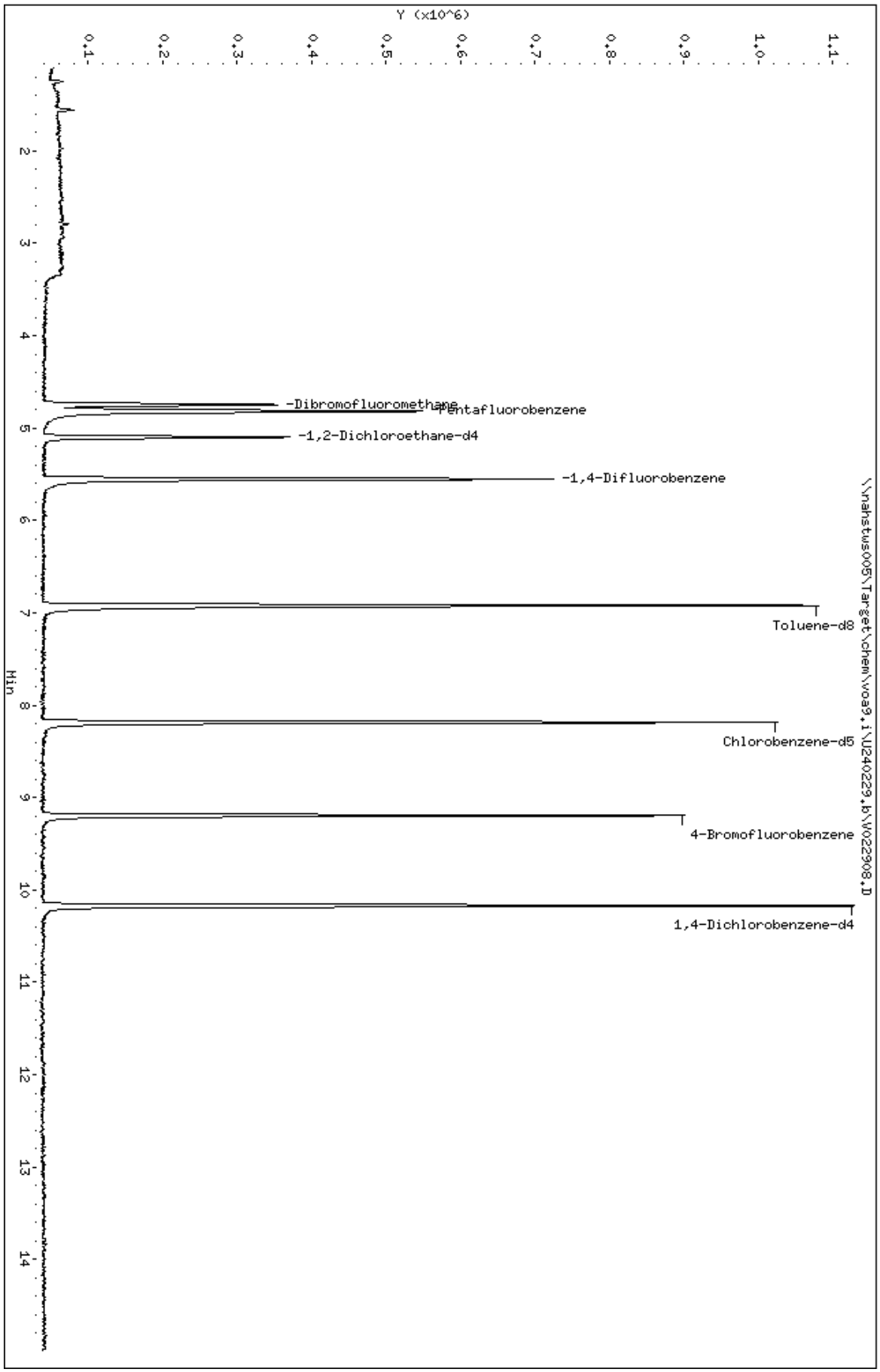
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.815	4.815	(1.000)	451505	50.0000	
$ 30 Dibromofluoromethane	113	4.748	4.744	(0.986)	183798	41.7154	41.71
$ 35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	216777	40.8181	40.81(M)
* 36 1,4-Difluorobenzene	114	5.554	5.550	(1.000)	614965	50.0000	
* 47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	566589	50.0000	
$ 48 Toluene-d8	98	6.922	6.922	(0.846)	724108	44.6256	44.62
$ 69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	259903	44.4308	44.43
* 70 1,4-Dichlorobenzene-d4	152	10.172	10.168	(1.000)	304639	50.0000	

QC Flag Legend

M - Compound response manually integrated.

Data File: \\nahstws005\Target\chem\voa9,i\U240229,b\W022908,D
Date : 01-MAR-2024 00:31
Client ID:
Sample Info: HS24021563-09
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: FT
Column diameter: 0.18



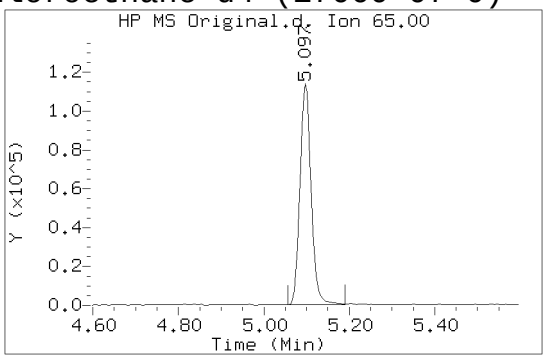
Data File : \\nahstws005\Target\chem\voa9.i\U240229.b\V022908.D
Inj Date : 01-MAR-2024 00:31
InstruID : VOA9.i
LabSampID : HS24021563-09

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

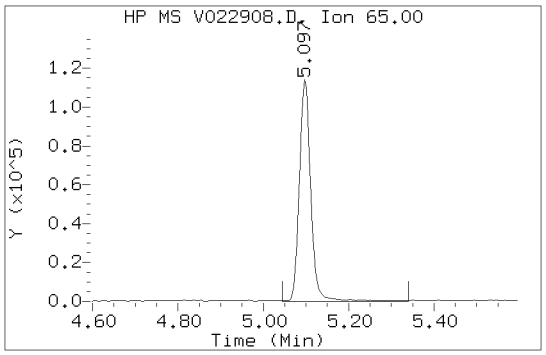
BEFORE

MASS
65
AREA
210384
HEIGHT
113782
01-Mar-2024
00:46
ALSHS
Server



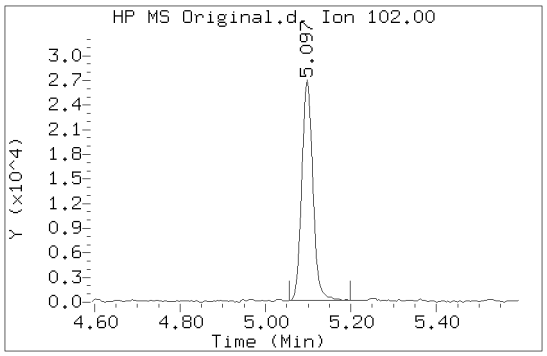
AFTER

MASS
65
AREA
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HEIGHT
114044
01-Mar-2024
09:14
ALSHS
Server



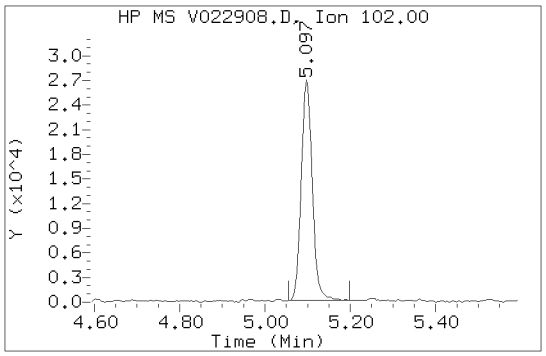
BEFORE

MASS
102
AREA
49610
HEIGHT
26856
01-Mar-2024
00:46
ALSHS
Server



AFTER

MASS
102
AREA
49610
HEIGHT
26856
01-Mar-2024
09:14
ALSHS
Server



Data File: \\nahstws005\Target\chem\voa9.i\U240229.b\V022922.D Page 1
Report Date: 01-Mar-2024 09:05

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240229.b\V022922.D
Lab Smp Id: HS24021563-01
Inj Date : 01-MAR-2024 05:43
Operator : FT   Inst ID: VOA9.i
Smp Info : HS24021563-01
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240229.b\8260C.m
Meth Date : 01-Mar-2024 07:51   Quant Type: ISTD
Cal Date : 27-FEB-2024 11:19   Cal File: U022705.D
Als bottle: 50
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTWS005

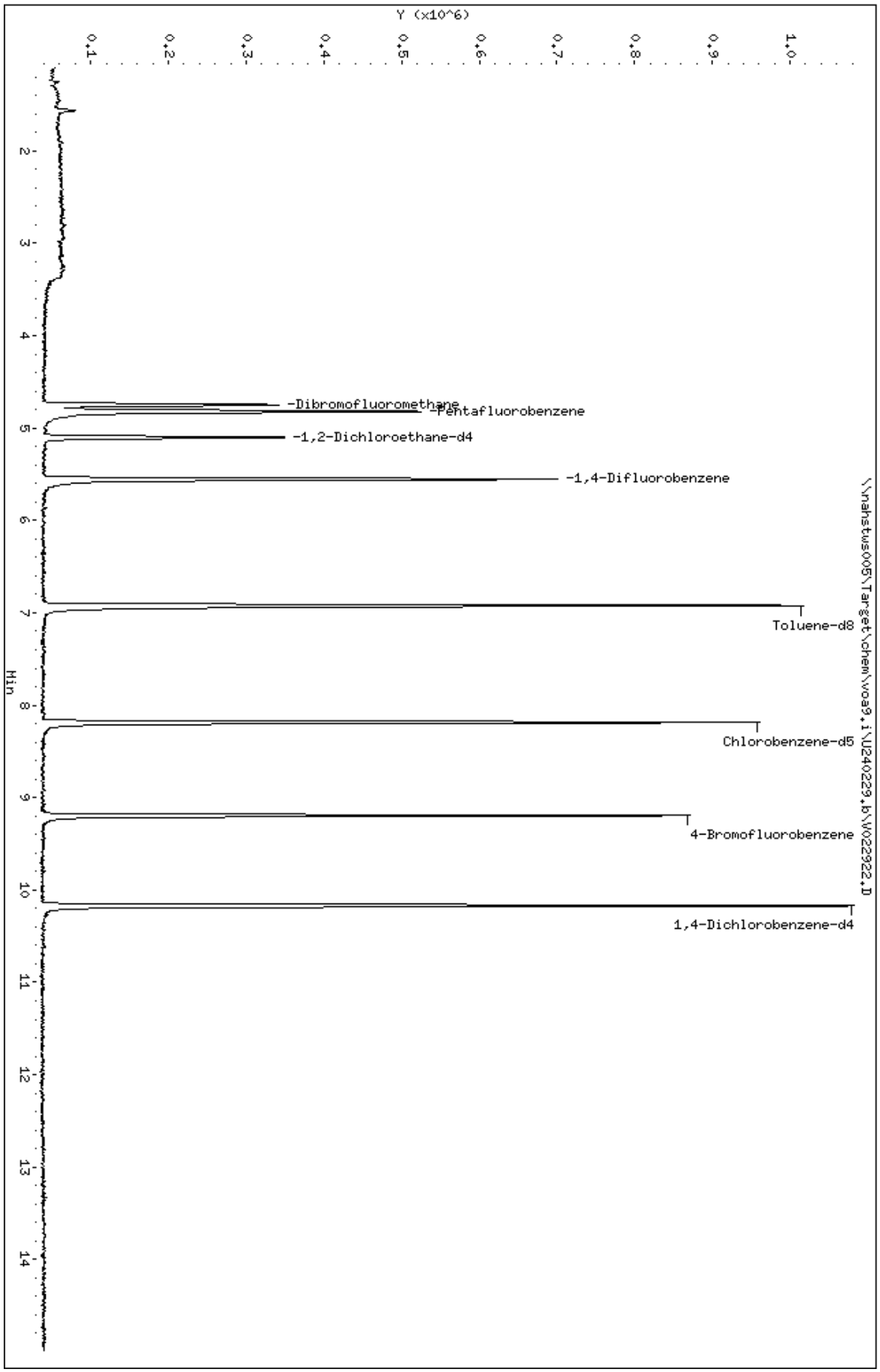
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.819	4.815	(1.000)	423724	50.0000	
$ 30 Dibromofluoromethane	113	4.752	4.744	(0.986)	176150	42.5931	42.59
$ 35 1,2-Dichloroethane-d4	65	5.100	5.096	(1.058)	207665	41.6563	41.65
* 36 1,4-Difluorobenzene	114	5.554	5.550	(1.000)	586424	50.0000	
* 47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	539054	50.0000	
$ 48 Toluene-d8	98	6.922	6.922	(0.846)	683453	44.2716	44.27
$ 69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	246110	44.2220	44.22
* 70 1,4-Dichlorobenzene-d4	152	10.172	10.168	(1.000)	289569	50.0000	

Data File: \\nahstws005\Target\chem\voa9.i\U240229.b\W022922.D
Date : 01-MAR-2024 05:43
Client ID:
Sample Info: HS24021563-01
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: FT
Column diameter: 0.18



Data File : \\nahstws005\Target\chem\voa9.i\U240229.b\V022922.D
Inj Date : 01-MAR-2024 05:43
InstruID : VOA9.i
LabSampID : HS24021563-01

NO MANUAL INTEGRATIONS

Data File: \\nahstws005\Target\chem\voa9.i\U240229.b\V022923.D Page 1
Report Date: 01-Mar-2024 09:19

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240229.b\V022923.D
Lab Smp Id: HS24021563-03
Inj Date : 01-MAR-2024 06:05
Operator : FT   Inst ID: VOA9.i
Smp Info : HS24021563-03
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240229.b\8260C.m
Meth Date : 01-Mar-2024 07:51   Quant Type: ISTD
Cal Date : 27-FEB-2024 11:19   Cal File: U022705.D
Als bottle: 51
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTWS005

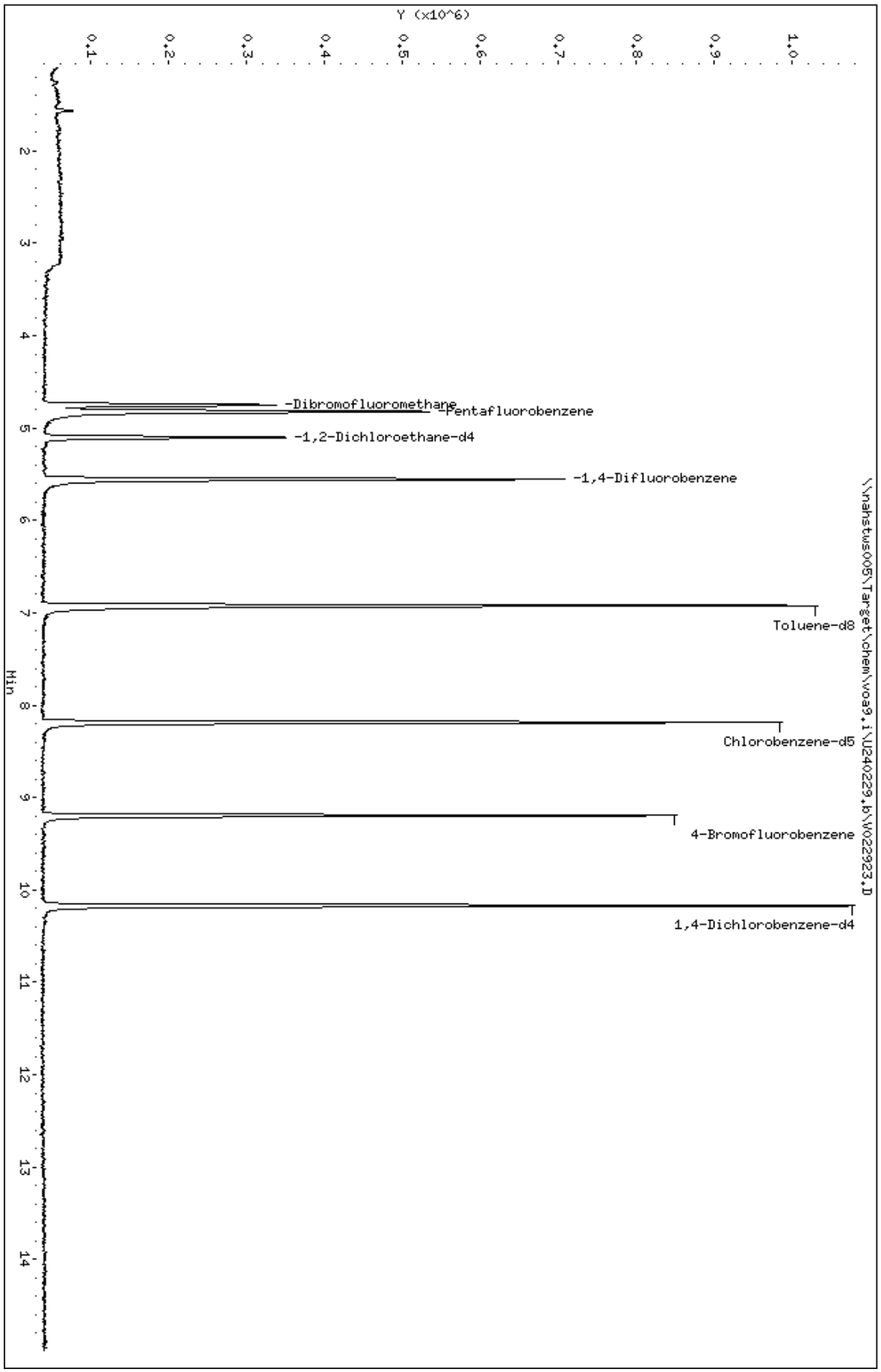
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.819	4.815	(1.000)	439826	50.0000	
$ 30 Dibromofluoromethane	113	4.751	4.744	(0.986)	177691	41.4030	41.40
$ 35 1,2-Dichloroethane-d4	65	5.100	5.096	(1.058)	211715	40.9223	40.92
* 36 1,4-Difluorobenzene	114	5.554	5.550	(1.000)	599869	50.0000	
* 47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	542955	50.0000	
$ 48 Toluene-d8	98	6.922	6.922	(0.846)	694122	44.6397	44.63(M)
$ 69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	248186	44.2746	44.27
* 70 1,4-Dichlorobenzene-d4	152	10.172	10.168	(1.000)	287886	50.0000	

QC Flag Legend

M - Compound response manually integrated.

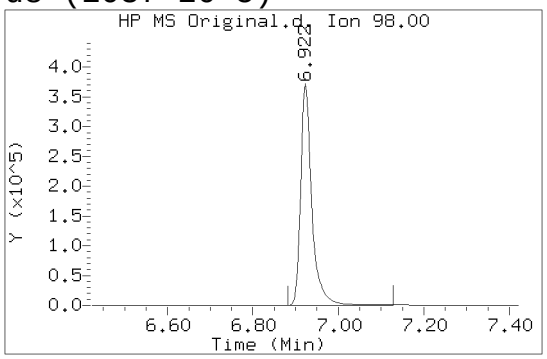

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Date : 01-MAR-2024 06:05
Client ID:
Sample Info: HS24021563-03
Purge Volume: 5.0
Column phase: DB624
Instrument: VOA9.i
Operator: FT
Column diameter: 0.18
Page 1
Y (x10^6)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
2
3
4
5
6
7
8
9
10
11
12
13
14
Min
-Dibromofluoromethane
-Pentafluorobenzene
-1,2-Dichloroethane-d4
-1,4-Difluorobenzene
Toluene-d8
Chlorobenzene-d5
4-Bromofluorobenzene
1,4-Dichlorobenzene-d4
\\nahstws005\Target\chem\voa9.i\U240229.b\W022923.D

Data File : \\nahstws005\Target\chem\voa9.i\U240229.b\V022923.D
Inj Date : 01-MAR-2024 06:05
InstruID : VOA9.i
LabSampID : HS24021563-03

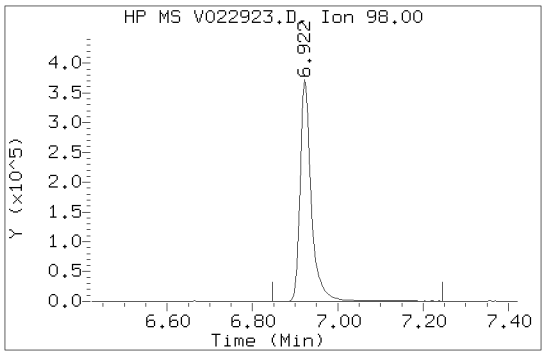
Toluene-d8 (2037-26-5)

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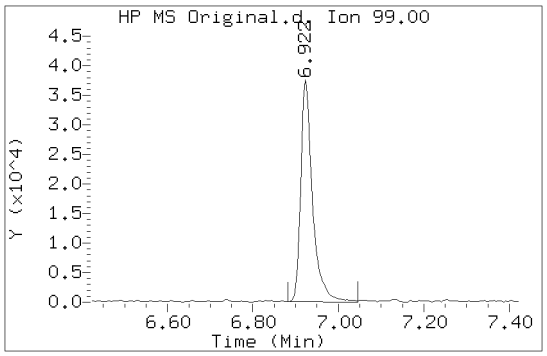
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HEIGHT
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01-Mar-2024
06:22
ALSHS
Server



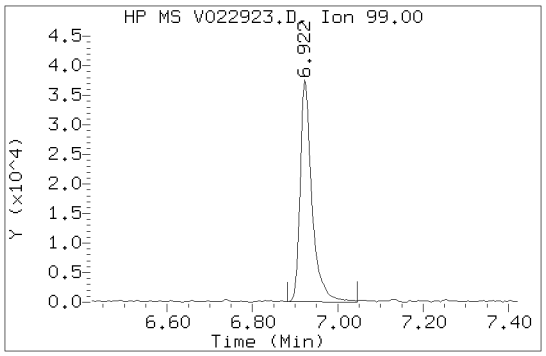
AFTER
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AREA
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HEIGHT
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01-Mar-2024
09:19
ALSHS
Server



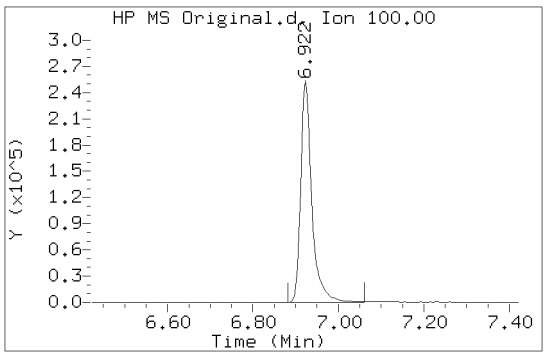
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01-Mar-2024
06:22
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Server



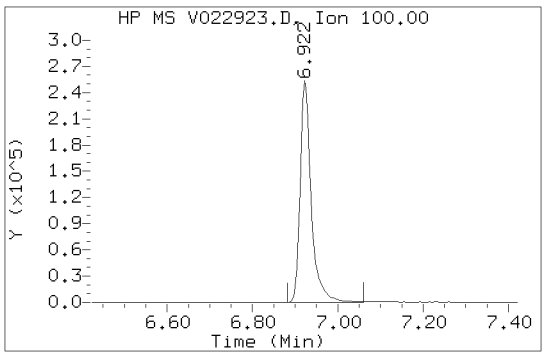
AFTER
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HEIGHT
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01-Mar-2024
09:19
ALSHS
Server



BEFORE
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AREA
463506
HEIGHT
253504
01-Mar-2024
06:22
ALSHS
Server



AFTER
MASS
100
AREA
463506
HEIGHT
253504
01-Mar-2024
09:19
ALSHS
Server



Data File: \\nahstws005\Target\chem\voa9.i\U240229.b\V022924.D Page 1
Report Date: 01-Mar-2024 09:06

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240229.b\V022924.D
Lab Smp Id: HS24021563-04
Inj Date : 01-MAR-2024 06:27
Operator : FT   Inst ID: VOA9.i
Smp Info : HS24021563-04
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240229.b\8260C.m
Meth Date : 01-Mar-2024 07:51   Quant Type: ISTD
Cal Date : 27-FEB-2024 11:19   Cal File: U022705.D
Als bottle: 52
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTWS005

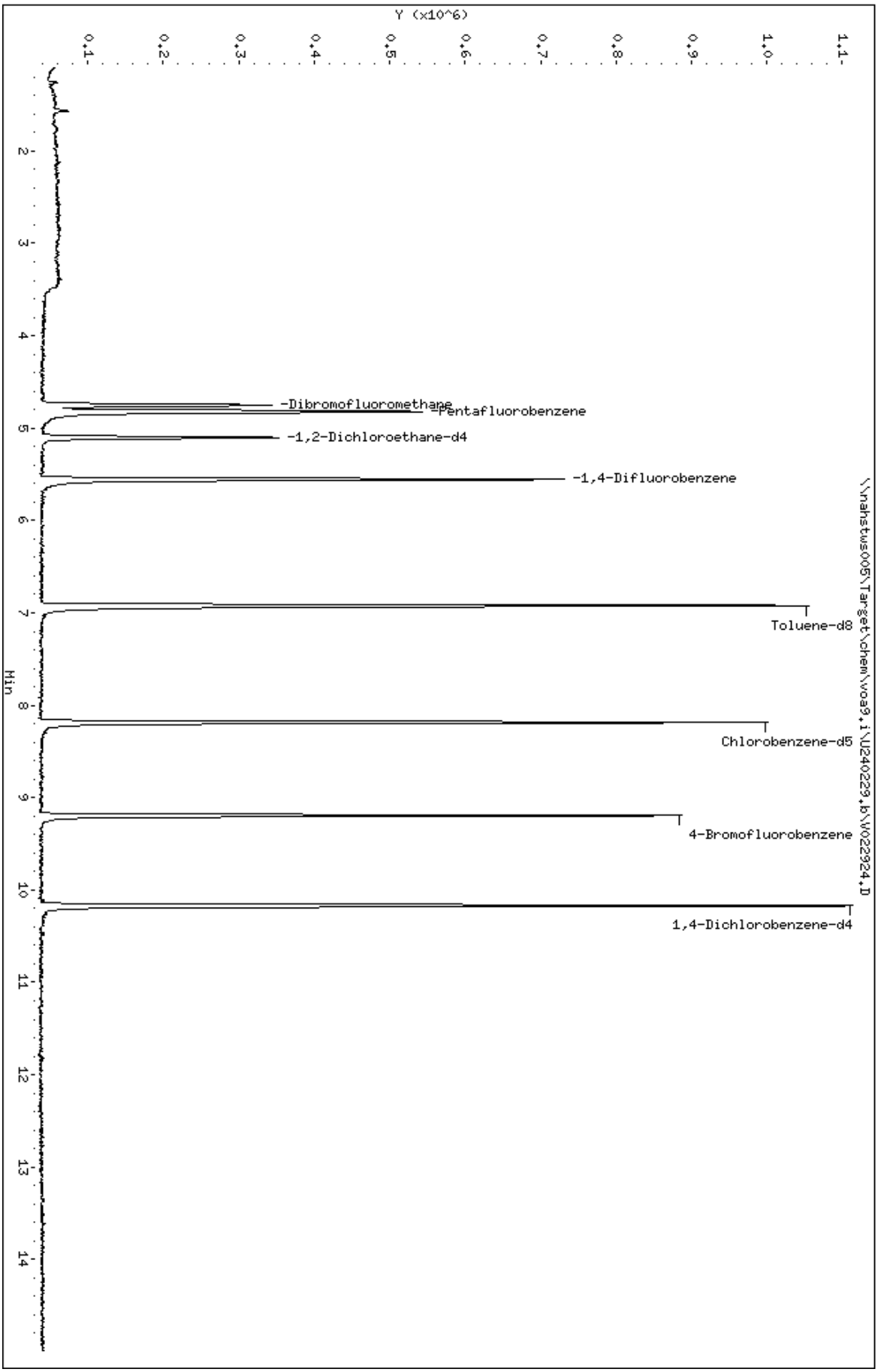
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.819	4.815	(1.000)	437840	50.0000	
$ 30 Dibromofluoromethane	113	4.751	4.744	(0.986)	176573	41.3298	41.32
$ 35 1,2-Dichloroethane-d4	65	5.100	5.096	(1.058)	208717	40.5304	40.53
* 36 1,4-Difluorobenzene	114	5.557	5.550	(1.000)	608323	50.0000	
* 47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	551674	50.0000	
$ 48 Toluene-d8	98	6.922	6.922	(0.846)	705209	44.6359	44.63
$ 69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	255506	44.8599	44.85
* 70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	296222	50.0000	

Data File: \\nahstws005\Target\chem\voa9.i\U240229.b\W022924.D
Date : 01-MAR-2024 06:27
Client ID:
Sample Info: HS2402156J-04
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: FT
Column diameter: 0.18



Data File : \\nahstws005\Target\chem\voa9.i\U240229.b\V022924.D
Inj Date : 01-MAR-2024 06:27
InstruID : VOA9.i
LabSampID : HS24021563-04

NO MANUAL INTEGRATIONS

Data File: \\nahstws005\Target\chem\voa9.i\U240229.b\V022925.D Page 1
Report Date: 01-Mar-2024 09:07

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240229.b\V022925.D
Lab Smp Id: HS24021563-05
Inj Date : 01-MAR-2024 06:49
Operator : FT   Inst ID: VOA9.i
Smp Info : HS24021563-05
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240229.b\8260C.m
Meth Date : 01-Mar-2024 07:51   Quant Type: ISTD
Cal Date : 27-FEB-2024 11:19   Cal File: U022705.D
Als bottle: 53
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTWS005

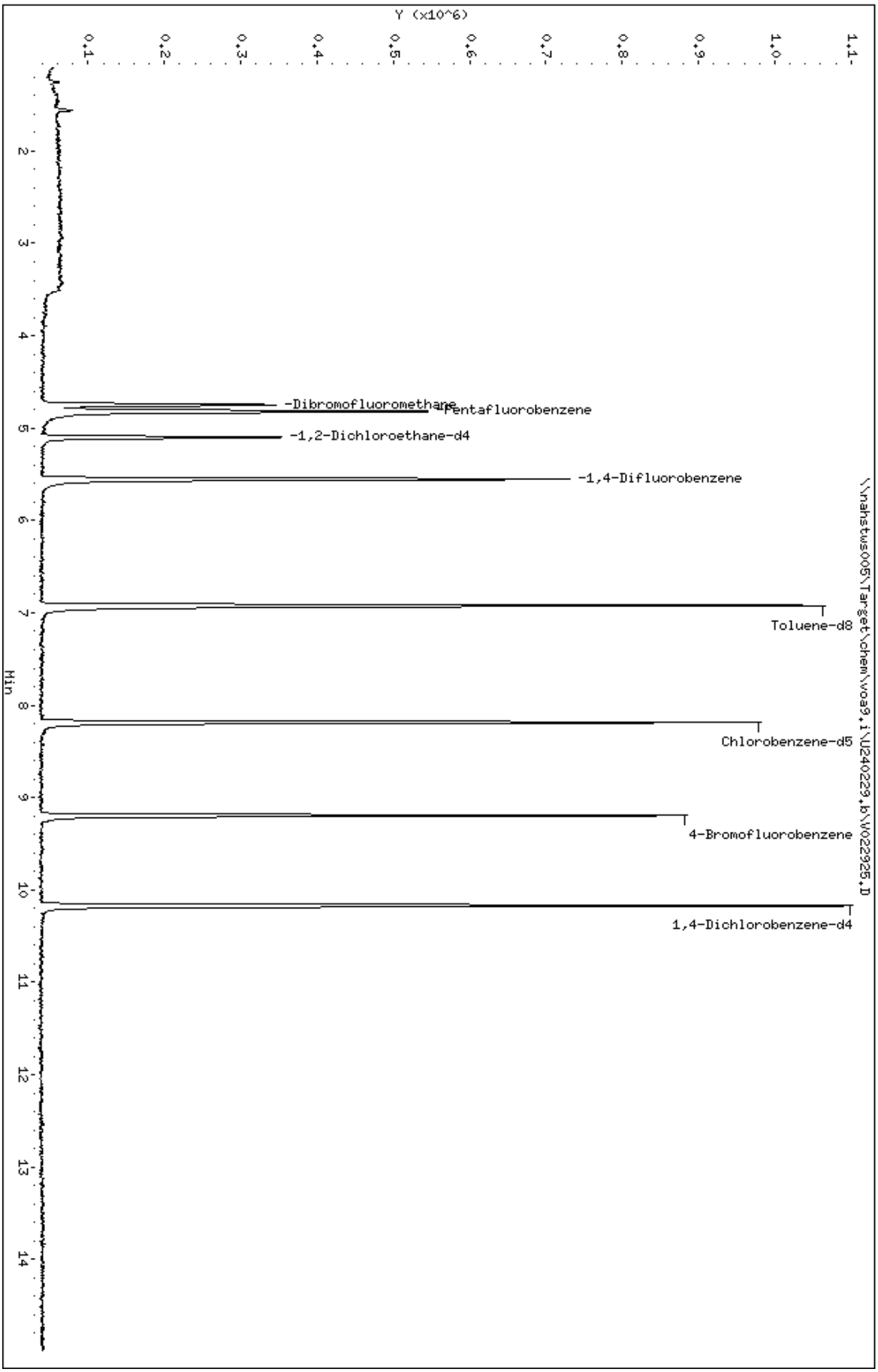
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.819	4.815	(1.000)	439371	50.0000	
$ 30 Dibromofluoromethane	113	4.751	4.744	(0.986)	179723	41.9153	41.91
$ 35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	212214	41.0596	41.05
* 36 1,4-Difluorobenzene	114	5.554	5.550	(1.000)	608403	50.0000	
* 47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	541843	50.0000	
$ 48 Toluene-d8	98	6.922	6.922	(0.846)	701789	45.2254	45.22
$ 69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	254679	45.5258	45.52
* 70 1,4-Dichlorobenzene-d4	152	10.172	10.168	(1.000)	291997	50.0000	

Data File: \\nahstws005\Target\chem\voa9.i\U240229.b\W022925.D
Date : 01-MAR-2024 06:49
Client ID:
Sample Info: HS24021563-05
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: FT
Column diameter: 0.18



Data File : \\nahstws005\Target\chem\voa9.i\U240229.b\V022925.D
Inj Date : 01-MAR-2024 06:49
InstruID : VOA9.i
LabSampID : HS24021563-05

NO MANUAL INTEGRATIONS

Data File: \\nahstws005\Target\chem\voa9.i\U240229.b\V022927.D Page 1
Report Date: 01-Mar-2024 07:51

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240229.b\V022927.D
Lab Smp Id: CCV-END Client Smp ID: CCV-END
Inj Date : 01-MAR-2024 07:34
Operator : FT Inst ID: VOA9.i
Smp Info : CCV-END;CCV-END;2;;;
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240229.b\8260C.m
Meth Date : 01-Mar-2024 07:51 Quant Type: ISTD
Cal Date : 27-FEB-2024 11:19 Cal File: U022705.D
Als bottle: 55 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.823	4.823	(1.000)	314817	50.0000	
2 Dichlorodifluoromethane	85	1.172	1.172	(0.243)	127755	50.0000	42.60
3 Chloromethane	50	1.310	1.310	(0.272)	169681	50.0000	45.58
4 Propionitrile	54	4.339	4.339	(0.900)	217399	500.000	472.22
5 Vinyl Chloride	62	1.385	1.385	(0.287)	175037	50.0000	49.46
6 Bromomethane	94	1.633	1.633	(0.339)	93784	50.0000	58.32
7 Chloroethane	64	1.711	1.711	(0.355)	123899	50.0000	50.75
8 Trichlorofluoromethane	101	1.906	1.906	(0.395)	238950	50.0000	54.11
9 Acrolein	56	2.277	2.277	(0.472)	15310	100.000	103.55
10 Acetone	43	1.974	1.974	(0.409)	168045	100.000	87.91
11 1,1-Dichloroethene	96	2.345	2.345	(0.486)	134322	50.0000	50.37
12 Isobutyl Alcohol	43	5.284	5.284	(1.096)	451714	1000.00	964.47
13 Acetonitrile	39	2.682	2.682	(0.556)	263042	500.000	568.18
14 Allyl Chloride	41	2.682	2.682	(0.556)	486297	50.0000	54.38
15 Iodomethane	142	2.480	2.480	(0.514)	297331	100.000	92.61
16 Acrylonitrile	53	3.072	3.072	(0.637)	125596	100.000	104.48
17 Methylene Chloride	84	2.802	2.802	(0.581)	162440	50.0000	52.17
18 Methyl tert-butyl ether	73	3.087	3.087	(0.640)	488943	50.0000	54.97
19 Carbon Disulfide	76	2.532	2.532	(0.525)	550803	100.000	101.61
20 trans-1,2-Dichloroethene	96	3.068	3.068	(0.636)	151280	50.0000	48.88

21 Vinyl Acetate	43	3.616	3.616 (0.750)	627401	100.000	83.82
22 1,1-Dichloroethane	63	3.522	3.522 (0.730)	243040	50.0000	49.64

Data File: \\nahstws005\Target\chem\voa9.i\U240229.b\V022927.D Page 2
Report Date: 01-Mar-2024 07:51

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	2.169	2.169	(0.450)	48745	50.0000	51.66
	24 2-Butanone	43	4.268	4.268	(0.885)	109230	100.000	86.00
	25 Methacrylonitrile	41	4.789	4.789	(0.993)	112484	50.0000	49.04(a)
	26 2,2-Dichloropropane	77	4.189	4.189	(0.869)	155539	50.0000	34.53
	27 cis-1,2-Dichloroethene	96	4.204	4.204	(0.872)	154098	50.0000	48.84
	28 Chloroform	83	4.579	4.579	(0.949)	252091	50.0000	48.04
	29 Bromochloromethane	128	4.474	4.474	(0.928)	81282	50.0000	50.76
$	30 Dibromofluoromethane	113	4.752	4.752	(0.985)	165476	50.0000	53.75
	31 1,1,1-Trichloroethane	97	4.748	4.748	(0.984)	219639	50.0000	47.05
	32 1,1-Dichloropropene	75	4.928	4.928	(0.887)	179382	50.0000	44.56
	33 1,2-Dichloroethane	62	5.179	5.179	(0.932)	207104	50.0000	45.42
	34 Carbon Tetrachloride	117	4.916	4.916	(0.885)	184274	50.0000	41.68
$	35 1,2-Dichloroethane-d4	65	5.100	5.100	(1.058)	197639	50.0000	53.22
*	36 1,4-Difluorobenzene	114	5.557	5.557	(1.000)	477028	50.0000	
	37 Benzene	78	5.145	5.145	(0.926)	560476	50.0000	47.42
	38 Trichloroethene	130	5.790	5.790	(1.042)	158902	50.0000	45.98
	39 Bromodichloromethane	83	6.277	6.277	(1.129)	192013	50.0000	42.97
	40 Methyl Methacrylate	41	5.955	5.955	(1.235)	107566	50.0000	46.40
	42 1,2-Dichloropropane	63	6.011	6.011	(1.082)	145629	50.0000	46.13
	43 2-Nitropropane	43	6.851	6.851	(1.420)	295446	50.0000	45.96
	44 Dibromomethane	93	6.120	6.120	(1.101)	94958	50.0000	48.89
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	295446	100.000	84.38
	46 cis-1,3-Dichloropropene	75	6.693	6.693	(1.204)	217549	50.0000	44.19
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	456230	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	630451	50.0000	48.25
	49 Ethyl Methacrylate	69	7.214	7.214	(1.298)	186009	50.0000	39.97
	50 Toluene	91	6.982	6.982	(0.853)	608621	50.0000	43.28
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.295)	185569	50.0000	44.74
	52 2-Hexanone	43	7.705	7.705	(0.941)	252231	100.000	91.69
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	113314	50.0000	43.65
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	239516	50.0000	42.93
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	166700	50.0000	44.15
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	130535	50.0000	43.61
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	140281	50.0000	44.54
	58 1-Chlorohexane	55	8.197	8.197	(1.475)	116546	50.0000	40.01
	59 Chlorobenzene	112	8.212	8.212	(1.003)	404313	50.0000	43.48
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	150688	50.0000	44.20
	61 Ethylbenzene	106	8.309	8.309	(1.015)	206370	50.0000	43.78
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	528055	100.000	88.29
	63 o-Xylene	106	8.748	8.748	(1.069)	262919	50.0000	45.05
	64 Styrene	104	8.763	8.763	(1.071)	467582	50.0000	45.16
	66 Bromoform	173	8.916	8.916	(1.089)	125230	50.0000	42.02
	67 Isopropylbenzene	105	9.063	9.063	(1.107)	659050	50.0000	43.92
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	194443	50.0000	39.67
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	243159	50.0000	51.62
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	267760	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.921)	194609	50.0000	37.61
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	35562	50.0000	33.88
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	721406	50.0000	40.25
	74 Bromobenzene	156	9.317	9.317	(0.916)	192322	50.0000	41.34
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	563339	50.0000	39.76
	76 2-Chlorotoluene	91	9.482	9.482	(0.933)	466521	50.0000	40.29

77	4-Chlorotoluene	91	9.576	9.576 (0.942)	549973	50.0000	41.10
78	tert-Butylbenzene	119	9.835	9.835 (0.967)	480485	50.0000	41.30

Data File: \\nahstws005\Target\chem\voa9.i\U240229.b\V022927.D Page 3
Report Date: 01-Mar-2024 07:51

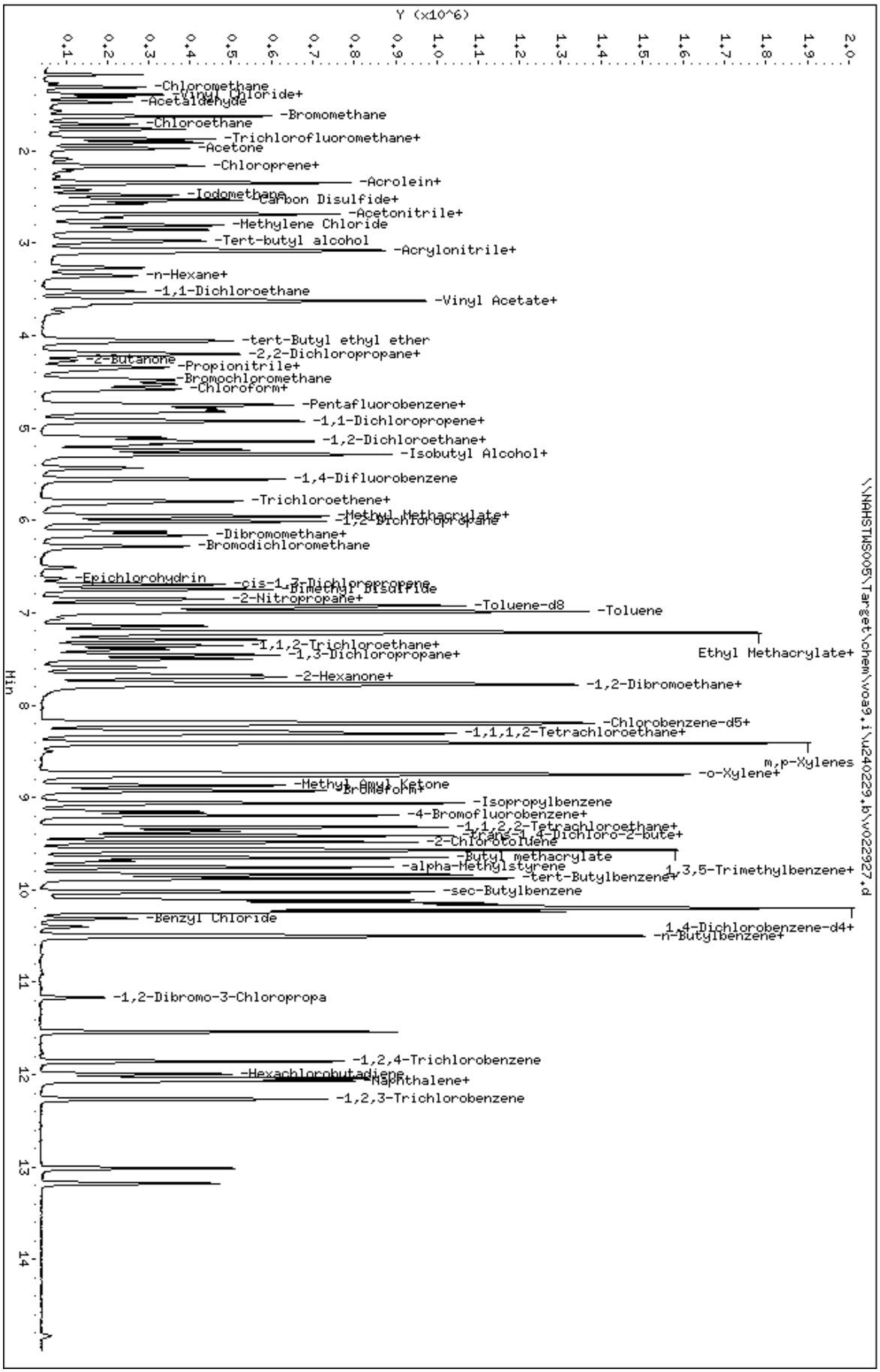
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	576763	50.0000	41.56
81	sec-Butylbenzene	105	10.022	10.022	(0.986)	630856	50.0000	41.00
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	579549	50.0000	40.94
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	346467	50.0000	43.18
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	364698	50.0000	43.96
86	Benzyl Chloride	91	10.311	10.311	(1.260)	155482	50.0000	24.47
87	n-Butylbenzene	91	10.491	10.491	(1.032)	475089	50.0000	40.41
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	351515	50.0000	43.39
89	1,2-Dibromo-3-Chloropropane	155	11.166	11.166	(1.098)	32283	50.0000	35.02
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	227199	50.0000	41.85
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	85733	50.0000	34.85
92	Naphthalene	128	12.065	12.065	(1.187)	546246	50.0000	41.03
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	213933	50.0000	41.29
146	Methyl acetate	43	2.723	2.723	(0.565)	182069	50.0000	46.99
138	Freon TF	101	2.349	2.349	(0.487)	122994	50.0000	51.43
141	Cyclohexane	56	4.789	4.789	(0.993)	188468	50.0000	42.64
142	Tetrahydrofuran	42	4.545	4.545	(0.942)	58056	100.000	91.84
147	Methylcyclohexane	55	5.947	5.947	(1.070)	394786	50.0000	45.79
135	1,4-Dioxane	88	6.165	6.165	(1.278)	42164	1000.00	951.22
132	n-Butanol	56	5.816	5.816	(1.206)	106103	1000.00	842.60
136	n-Hexane	57	3.353	3.353	(0.695)	107956	50.0000	34.38
139	Diethyl ether	59	2.157	2.157	(0.447)	127508	50.0000	56.69
148	Tert-butyl alcohol	59	2.975	2.975	(0.617)	446324	1000.00	1025.55
149	Isopropyl alcohol	45	2.570	2.570	(0.533)	266671	1000.00	1050.33
152	Amyl alcohol	42	7.394	7.394	(0.903)	125571	1000.00	818.06
156	Diisopropyl ether	45	3.627	3.627	(0.752)	496346	50.0000	50.85
162	Butyl acrylate	55	8.733	8.733	(1.067)	363652	50.0000	46.56
187	n-Amyl acetate	43	8.931	8.931	(1.091)	290001	50.0000	46.52
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	889658	50.0000	52.28
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	659906	50.0000	48.48
167	Ethanol	45	2.090	2.090	(0.433)	46124	1000.00	1065.81
172	tert-Butyl formate	59	5.235	5.235	(1.085)	307354	100.000	80.86
173	3,3-Dimethyl-1-butanol	57	7.777	7.777	(0.950)	423433	1000.00	833.91
174	tert-Amyl methyl ether	73	5.288	5.288	(1.096)	475817	50.0000	49.62
175	tert-Butyl ethyl ether	59	4.054	4.054	(0.841)	466645	50.0000	49.95
176	tert-Amyl alcohol	59	5.235	5.235	(1.085)	307354	1000.00	814.03
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.298)	1104430	1000.00	836.35
140	1,3-Butadiene	54	1.415	1.415	(0.294)	57646	50.0000	45.73
158	Dichlorofluoromethane	67	1.869	1.869	(0.388)	296497	50.0000	55.39
182	Epichlorohydrin	57	6.630	6.630	(1.193)	42830	200.000	154.88
M 94	1,2-Dichloroethylene (total)	96				305378	100.000	97.13
M 95	Xylenes (total)	106				790974	150.000	132.86
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	243842	50.0000	41.52
130	Ethyl Acetate	43	4.343	4.343	(0.901)	153080	50.0000	42.48
131	Methyl Acrylate	55	4.373	4.373	(0.907)	184053	50.0000	48.77
189	n-Butyl acetate	43	7.705	7.705	(0.941)	253112	50.0000	42.15
134	Cyclohexanone	55	9.152	9.152	(0.900)	150511	1000.00	572.67
185	Isoprene	39	2.169	2.169	(0.450)	41721	50.0000	52.25
188	Isopropyl acetate	43	5.284	5.284	(0.951)	452130	50.0000	47.10
150	Allyl alcohol	57	3.353	3.353	(0.695)	107956	1000.00	682.83
194	Acetaldehyde	44	1.471	1.471	(0.305)	151918	200.000	224.10
195	Methyl Amyl Ketone	43	8.868	8.868	(1.083)	362139	50.0000	46.24

200 Dimethyl Disulfide	94	6.746	6.746 (0.824)	276898	50.0000	43.75
203 2-Ethylhexyl Acrylate	55	12.039	12.039 (1.184)	264041	50.0000	44.59

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
133 Ethyl Acrylate	55	5.947	5.947	(1.233)	394786	50.0000	45.97
163 Butyl methacrylate	41	9.647	9.647	(0.949)	268434	50.0000	45.31
159 Propylene oxide	43	2.214	2.214	(0.459)	38891	100.000	143.75

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).



Data File: \\NAHSTWS005\Target\chem\voa9.i\w240229.b\w022927.d
Date : 01-MAR-2024 07:34
Client ID: CCV-END
Sample Info: CCV-END;CCV-END;2;;;
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: FT
Column diameter: 0.18

Data File : \\nahstws005\target\chem\voa9.i\u240229.b\v022927.d
Inj Date : 01-MAR-2024 07:34
InstruID : VOA9.i
LabSampID : CCV-END

NO MANUAL INTEGRATIONS

HS24021563-GCSEMI-RSK-175

ALS WO# HS24021563

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Form 1

Organic Analysis Data Sheet

Dissolved Gasses by Dissolved Gases by RSK-175

Workorder

HS24021563

Client

Bhate Environmental Associates, Inc.

Project

LHAAP / Site 46

03/21/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 1 - Organic Analysis Data Sheet

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	LHAAP / Site 46	**HS24021563**	

Dissolved Gasses by Dissolved Gases by RSK-175

46WW02-240226	Collected	Received	Matrix	Basis
HS24021563-02	02/26/24 08:15	02/27/24 09:10	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Ethane	mg/L	0.000586	J	0.00014	0.00100	0.00100	1	03/04/24 08:38	FID-4_460200	005.D
Ethene	mg/L	0.00100	U	0.00023	0.00100	0.00100	1	03/04/24 08:38	FID-4_460200	005.D
Methane	mg/L	0.00107		0.00010	0.000500	0.000500	1	03/04/24 08:38	FID-4_460200	005.D

Form 1 - Organic Analysis Data Sheet

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	LHAAP / Site 46	**HS24021563**	

Dissolved Gasses by Dissolved Gases by RSK-175

46WW16-240226	Collected	Received	Matrix	Basis
HS24021563-05	02/26/24 10:35	02/27/24 09:10	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Ethane	mg/L	0.00100	U	0.00014	0.00100	0.00100	1	02/28/24 10:05	FID-4_460200	008.D
Ethene	mg/L	0.00100	U	0.00023	0.00100	0.00100	1	02/28/24 10:05	FID-4_460200	008.D
Methane	mg/L	0.00197		0.00010	0.000500	0.000500	1	02/28/24 10:05	FID-4_460200	008.D

Form 1 - Organic Analysis Data Sheet

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	LHAAP / Site 46	**HS24021563**	

Dissolved Gasses by Dissolved Gases by RSK-175

46WW05-240226	Collected	Received	Matrix	Basis
HS24021563-06	02/26/24 11:20	02/27/24 09:10	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Ethane	mg/L	0.00190		0.00014	0.00100	0.00100	1	02/28/24 10:16	FID-4_460200	009.D
Ethene	mg/L	0.00100	U	0.00023	0.00100	0.00100	1	02/28/24 10:16	FID-4_460200	009.D
Methane	mg/L	0.00304		0.00010	0.000500	0.000500	1	02/28/24 10:16	FID-4_460200	009.D

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Form 3A

Matrix Spike/Spike Duplicate Recovery

Dissolved Gasses by Dissolved Gases by RSK-175

Workorder

HS24021563

Client

Bhate Environmental Associates, Inc.

Project

LHAAP / Site 46

03/21/2024

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www.alsglobal.com

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP / Site 46

Workorder HS24021563

Dissolved Gasses by Dissolved Gases by RSK-175

SAMPLENUM HS24021563-02MS

46WW02-240226 (HS24021563-02)				HS24021563-02MS				HS24021563-02MSD						
Spike Matrix Aqueous		Result Units mg/L		Run Date 03/04/24				Run Date 03/04/24						
Instrument ID FID4				Run Time 08:57				Run Time 09:08						
				Data File 006.D				Data File 007.D						
Analyte	%R Limits	DF	Sample Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
Ethane	75-125	1	0.0005857	0.014995	0.0180	80		0.015340	0.0180	82		20	2.27	
Ethene	75-125	1	0	0.013362	0.0168	80		0.014045	0.0168	84		20	4.98	
Methane	75-125	1	0.001069	0.008683	0.0096	79		0.008651	0.0096	79		20	0.359	

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits OL - Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

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Form 3B

Laboratory Control Sample Recovery

Dissolved Gasses by Dissolved Gases by RSK-175

Workorder

HS24021563

Client

Bhate Environmental Associates, Inc.

Project

LHAAP / Site 46

03/21/2024

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www.alsglobal.com

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP / Site 46

Workorder HS24021563

Dissolved Gasses by Dissolved Gases by RSK-175

SAMPLENUM LCS-240228

FID-4_460200			LCS-240228			LCSD-240228					
Spike Matrix Aqueous	Result Units mg/L		Run Date 02/28/24 Run Time 08:44			Run Date 02/28/24 Run Time 13:43					
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q	LCSD Result	%R	Q	RPD Limit	RPD	Q
Ethane	75-125	0.01804	0.0192	106		0.0177	98		30	8.34	
Ethene	75-125	0.0168	0.0156	93		0.0148	88		30	5.8	
Methane	75-125	0.009647	0.00846	88		0.00776	80		30	8.64	

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Form 4

Method Blank Summary

Dissolved Gasses by Dissolved Gases by RSK-175

Workorder

HS24021563

Client

Bhate Environmental Associates, Inc.

Project

LHAAP / Site 46

03/21/2024

ALS Environmental–Houston Laboratory
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Form 4 - Method Blank Summary

Client: Bhate Environmental Associates, Inc.
Project: LHAAP / Site 46
Workorder: HS24021563

Dissolved Gasses by Dissolved Gases by RSK-175

METHOD BLANK	Matrix	Analysis Date	Analysis Batch	Inst ID
MBLK-240228	Aqueous	02/28/24 08:31	R460200	FID4

Client Sample ID	Lab Sample ID	Type	Analysis Date	Analysis Batch	Inst ID	FileID
LCS-240228	LCS-240228	LCS	02/28/24 08:44	R460200	FID4	003.D
46WW16-240226	HS24021563-05	SAMP	02/28/24 10:05	R460200	FID4	008.D
46WW05-240226	HS24021563-06	SAMP	02/28/24 10:16	R460200	FID4	009.D
LCSD-240228	LCSD-240228	LCSD	02/28/24 13:43	R460200	FID4	025.D
46WW02-240226	HS24021563-02	SAMP	03/04/24 08:38	R460200	FID4	005.D
46WW02-240226	HS24021563-02MS	MS	03/04/24 08:57	R460200	FID4	006.D
46WW02-240226	HS24021563-02MSD	MSD	03/04/24 09:08	R460200	FID4	007.D

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Form 6

Initial Calibration Data

Dissolved Gasses by Dissolved Gases by RSK-175

Workorder

HS24021563

Client

Bhate Environmental Associates, Inc.

Project

LHAAP / Site 46

03/21/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 24-JAN-2017 09:06
End Cal Date : 24-JAN-2017 11:13
Quant Method : ESTD
Origin : Included
Target Version : 4.14
Integrator : Falcon
Method file : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\RSKNI2.m
Last Edit : 04-Oct-2023 12:23 donna.broussard1

Calibration File Names:
Level 1: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\001.D
Level 2: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\002.D
Level 3: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\003.D
Level 4: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\004.D
Level 5: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\005.D
Level 6: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\006.D
Level 7: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\007.D

Compound	10.0000 Level 1	25.0000 Level 2	50.0000 Level 3	100.0000 Level 4	250.0000 Level 5	500.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	1000.0000 Level 7										
1 Methane	969	978	1020	881	961	931					
	1082						AVRG		974		6.55041
2 Ethene	536	567	565	516	665	426					
	829						AVRG		586		21.93197
3 Ethane	602	670	659	597	809	818					
	999						AVRG		736		19.88517
4 Propane	500	1279	2602	4785	18294	38286					
	96509						QUAD	0.97987	0.00153	-4.583e-00	0.99914

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 24-JAN-2017 09:06
End Cal Date : 24-JAN-2017 11:13
Quant Method : ESTD
Origin : Included
Target Version : 4.14
Integrator : Falcon
Method file : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\RSKNI2.m
Last Edit : 04-Oct-2023 12:23 donna.broussard1

Compound	10.0000 Level 1 / 1000.0000 Level 7	25.0000 Level 2	50.0000 Level 3	100.0000 Level 4	250.0000 Level 5	500.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
5 N-Butane	438 / 114164	936	2034	3864	18446	42817	QUAD	2.46870	0.00183	-5.537e-00	0.99808	
6 Pentane	115 / 488	3945	2080	950	501	412	AVRG		1213		112	<-
7 Hexane	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 24-JAN-2017 09:06
End Cal Date : 24-JAN-2017 11:13
Quant Method : ESTD
Origin : Included
Target Version : 4.14
Integrator : Falcon
Method file : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\RSKNI2.m
Last Edit : 04-Oct-2023 12:23 donna.broussard1

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 24-JAN-2017 09:06
End Cal Date : 01-MAR-2024 15:48
Quant Method : ESTD
Origin : Disabled
Target Version : 4.14
Integrator : Falcon
Method file : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\RSKNI2.m
Last Edit : 02-Mar-2024 07:11 Samy.Mata
Curve Type : Average

Calibration File Names:
Level 1: \\NAHSTWS005\Target\chem\FID-4.i\240301ICAL.b\009.D
Level 2: \\NAHSTWS005\Target\chem\FID-4.i\240301ICAL.b\003.D
Level 3: \\NAHSTWS005\Target\chem\FID-4.i\240301ICAL.b\004.D
Level 4: \\NAHSTWS005\Target\chem\FID-4.i\240301ICAL.b\005.D
Level 5: \\NAHSTWS005\Target\chem\FID-4.i\240301ICAL.b\006.D
Level 6: \\NAHSTWS005\Target\chem\FID-4.i\240301ICAL.b\007.D
Level 7: \\NAHSTWS005\Target\chem\FID-4.i\240301ICAL.b\008.D

Compound	10.000 Level 1	25.000 Level 2	50.000 Level 3	100.000 Level 4	250.000 Level 5	500.000 Level 6	1000.000 Level 7	___ RRF	% RSD
1 Methane	1275	1233	1158	1053	1089	1052	1015	1125	8.811
2 Ethene	596	725	776	798	843	513	811	723	16.997
3 Ethane	712	946	1023	1035	1159	1061	1092	1004	14.380
4 Propane	642	946	932	951	1024	999	987	926	13.969
5 N-Butane	563	912	953	953	1015	990	988	911	17.229
6 Pentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
7 Hexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Form 6I

Initial Calibration Verification (ICV)

Dissolved Gasses by Dissolved Gases by RSK-175

Workorder

HS24021563

Client

Bhate Environmental Associates, Inc.

Project

LHAAP / Site 46

03/21/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP / Site 46

Workorder HS24021563

RunID 008.D

Dissolved Gasses by Dissolved Gases by RSK-175

Sample Matrix LIQUID
Lab Smp Id ICV
Data Type GC DATA
File ID 008.D

Fraction GASES
Client Smp ID ICV
SampleType METHSPIKE
Inj Date 24-JAN-2017 1205

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
Methane	9.65	9.60	99.5	75-125	
Ethene	16.8	19.1	114	75-125	
Ethane	18.0	19.7	109	75-125	
Propane	26.5	27.2	103	75-125	
N-Butane	35.0	36.0	103	75-125	

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP / Site 46

Workorder HS24021563

RunID 010.D

Dissolved Gasses by Dissolved Gases by RSK-175

Sample Matrix LIQUID
Lab Smp Id RSK-ICV
Data Type GC DATA
File ID 010.D

Fraction GASES
Client Smp ID RSK-ICV
SampleType METHSPIKE
Inj Date 01-MAR-2024 1700

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
Methane	9.62	8.09	84.1	80-120	
Ethene	16.8	16.5	98.0	80-120	
Ethane	18.0	17.0	94.4	80-120	
Propane	26.5	24.6	92.9	80-120	
N-Butane	34.9	32.9	94.4	80-120	
Pentane	43.3	0.000		80-120	*
Hexane	51.7	0.000		80-120	*

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Form 7

Continuing Calibration Verification (CCV)

Dissolved Gasses by Dissolved Gases by RSK-175

Workorder

HS24021563

Client

Bhate Environmental Associates, Inc.

Project

LHAAP / Site 46

03/21/2024

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Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP / Site 46

Workorder HS24021563

RunID 001.D

Dissolved Gasses by Dissolved Gases by RSK-175

Instrument ID FID-4.i
Lab File ID 001.D
Analysis Type WATER
Lab Sample ID RSK-CCV

Injection Date 28-FEB-2024 0821
ICAL Date(s) 24-JAN-2017, 24-JAN-2017
ICAL Times 09:06, 11:13
Quant Type ESTD

Compound	RRF / Conc	RF250	CCV RRF250	Min RRF	%D / %DRIFT	Max %D / %DRIFT	CURVE TYPE	Q
Methane	975	781	781	0.010	19.9	20.0	Averaged	
Ethene	586	512	512	0.010	12.6	20.0	Averaged	
Ethane	719	735	735	0.010	-2.205	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP / Site 46

Workorder HS24021563

RunID 011.D

Dissolved Gasses by Dissolved Gases by RSK-175

Instrument ID FID-4.i
Lab File ID 011.D
Analysis Type WATER
Lab Sample ID RSK-CCV

Injection Date 28-FEB-2024 1034
ICAL Date(s) 24-JAN-2017, 24-JAN-2017
ICAL Times 09:06, 11:13
Quant Type ESTD

Compound	RRF / Conc	RF250	CCV RRF250	Min RRF	%D / %DRIFT	Max %D / %DRIFT	CURVE TYPE	Q
Methane	975	923	923	0.010	5.38	20.0	Averaged	
Ethene	586	524	524	0.010	10.5	20.0	Averaged	
Ethane	719	745	745	0.010	-3.615	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP / Site 46

Workorder HS24021563

RunID 022.D

Dissolved Gasses by Dissolved Gases by RSK-175

Instrument ID FID-4.i
Lab File ID 022.D
Analysis Type WATER
Lab Sample ID RSK-CCV

Injection Date 28-FEB-2024 1307
ICAL Date(s) 24-JAN-2017, 24-JAN-2017
ICAL Times 09:06, 11:13
Quant Type ESTD

Compound	RRF / Conc	RF250	CCV RRF250	Min RRF	%D / %DRIFT	Max %D / %DRIFT	CURVE TYPE	Q
Methane	975	823	823	0.010	15.6	20.0	Averaged	
Ethene	586	513	513	0.010	12.5	20.0	Averaged	
Ethane	719	726	726	0.010	-0.926	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP / Site 46

Workorder HS24021563

RunID 029.D

Dissolved Gasses by Dissolved Gases by RSK-175

Instrument ID FID-4.i
Lab File ID 029.D
Analysis Type WATER
Lab Sample ID RSK-CCV

Injection Date 28-FEB-2024 1420
ICAL Date(s) 24-JAN-2017, 24-JAN-2017
ICAL Times 09:06, 11:13
Quant Type ESTD

Compound	RRF / Conc	RF250	CCV RRF250	Min RRF	%D / %DRIFT	Max %D / %DRIFT	CURVE TYPE	Q
Methane	975	795	795	0.010	18.5	20.0	Averaged	
Ethene	586	513	513	0.010	12.4	20.0	Averaged	
Ethane	719	736	736	0.010	-2.259	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP / Site 46

Workorder HS24021563

RunID 001.D

Dissolved Gasses by Dissolved Gases by RSK-175

Instrument ID FID-4.i
Lab File ID 001.D
Analysis Type WATER
Lab Sample ID RSK-CCV

Injection Date 04-MAR-2024 0728
ICAL Date(s) 24-JAN-2017, 01-MAR-2024
ICAL Times 09:06, 15:48
Quant Type ESTD

Compound	RRF / Conc	RF250	CCV RRF250	Min RRF	%D / %DRIFT	Max %D / %DRIFT	CURVE TYPE	Q
Methane	1125	1050	1050	0.010	6.66	20.0	Averaged	
Ethene	723	676	676	0.010	6.58	20.0	Averaged	
Ethane	1004	882	882	0.010	12.2	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP / Site 46

Workorder HS24021563

RunID 011.D

Dissolved Gasses by Dissolved Gases by RSK-175

Instrument ID FID-4.i
Lab File ID 011.D
Analysis Type WATER
Lab Sample ID RSK-CCV

Injection Date 04-MAR-2024 0946
ICAL Date(s) 24-JAN-2017, 01-MAR-2024
ICAL Times 09:06, 15:48
Quant Type ESTD

Compound	RRF / Conc	RF250	CCV RRF250	Min RRF	%D / %DRIFT	Max %D / %DRIFT	CURVE TYPE	Q
Methane	1125	1035	1035	0.010	7.97	20.0	Averaged	
Ethene	723	741	741	0.010	-2.492	20.0	Averaged	
Ethane	1004	1016	1016	0.010	-1.146	20.0	Averaged	

right solutions.
right partner.

Analysis Run Log

Dissolved Gasses by Dissolved Gases by RSK-175

Workorder

HS24021563

Client

Bhate Environmental Associates, Inc.

Project

LHAAP / Site 46

03/21/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP / Site 46

Workorder **HS24021563**

RUNID FID-4-322102

Dissolved Gasses by Dissolved Gases by RSK-175

Run ID FID-4_322102 **Start Date** 01/24/17 **EndDate** 01/24/17

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
09:06	ICAL1	ICAL1	ICAL1	001.D	01/24/17	1
09:30	ICAL2	ICAL2	ICAL2	002.D	01/24/17	1
09:59	ICAL3	ICAL3	ICAL3	003.D	01/24/17	1
10:15	ICAL4	ICAL4	ICAL4	004.D	01/24/17	1
10:39	ICAL5	ICAL5	ICAL5	005.D	01/24/17	1
10:57	ICAL6	ICAL6	ICAL6	006.D	01/24/17	1
11:13	ICAL7	ICAL7	ICAL7	007.D	01/24/17	1
12:05	ICV	ICV	ICV	008.D	01/24/17	1

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP / Site 46

Workorder HS24021563

Dissolved Gasses by Dissolved Gases by RSK-175

RUNID FID-4-460200

Run ID FID-4_460200 Start Date 02/28/24 EndDate 03/04/24

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
08:21	RSK-CCV	CCV	RSK-CCV	001.D	02/28/24	1
08:31	MBLK-240228	MBLK	MBLK-240228	002.D	02/28/24	1
08:44	LCS-240228	LCS	LCS-240228	003.D	02/28/24	1
10:05	HS24021563-05	SAMP	46WW16-240226	008.D	02/28/24	1
10:16	HS24021563-06	SAMP	46WW05-240226	009.D	02/28/24	1
10:25	HS24021562-07	SAMP	ZZZZZZZZZZ	010.D	02/28/24	1
10:34	RSK-CCV	CCV	RSK-CCV	011.D	02/28/24	1
10:44	HS24021562-08	SAMP	ZZZZZZZZZZ	012.D	02/28/24	1
10:55	HS24021562-09	SAMP	ZZZZZZZZZZ	013.D	02/28/24	1
11:14	HS24021562-10	SAMP	ZZZZZZZZZZ	014.D	02/28/24	1
11:29	HS24021562-11	SAMP	ZZZZZZZZZZ	015.D	02/28/24	1
11:38	HS24021562-12	SAMP	ZZZZZZZZZZ	016.D	02/28/24	1
11:48	HS24021562-13	SAMP	ZZZZZZZZZZ	017.D	02/28/24	1
12:03	HS24021562-14	SAMP	ZZZZZZZZZZ	018.D	02/28/24	1
12:21	HS24021562-09	SAMP	ZZZZZZZZZZ	019.D	02/28/24	5
12:36	HS24021562-10	SAMP	ZZZZZZZZZZ	020.D	02/28/24	10
12:51	HS24021562-11	SAMP	ZZZZZZZZZZ	021.D	02/28/24	5
13:07	RSK-CCV	CCV	RSK-CCV	022.D	02/28/24	1
13:18	HS24021562-12	SAMP	ZZZZZZZZZZ	023.D	02/28/24	5
13:28	HS24021562-13	SAMP	ZZZZZZZZZZ	024.D	02/28/24	100
13:43	LCSD-240228	LCSD	LCSD-240228	025.D	02/28/24	1
13:52	HS24021617-01	SAMP	ZZZZZZZZZZ	026.D	02/28/24	1
14:01	HS24021617-02	SAMP	ZZZZZZZZZZ	027.D	02/28/24	1
14:11	HS24021617-03	SAMP	ZZZZZZZZZZ	028.D	02/28/24	1
14:20	RSK-CCV	CCV	RSK-CCV	029.D	02/28/24	1
07:28	RSK-CCV	CCV	RSK-CCV	001.D	03/04/24	1
08:38	HS24021563-02	SAMP	46WW02-240226	005.D	03/04/24	1
08:57	HS24021563-02MS	MS	HS24021563-02MS	006.D	03/04/24	1
09:08	HS24021563-02MSD	MSD	HS24021563-02MSD	007.D	03/04/24	1
09:46	RSK-CCV	CCV	RSK-CCV	011.D	03/04/24	1

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right partner.

RawData

Dissolved Gasses by Dissolved Gases by RSK-175

Workorder

HS24021563

Client

Bhate Environmental Associates, Inc.

Project

LHAAP / Site 46

03/21/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Data File: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\001.D Page 1
Report Date: 28-Sep-2022 10:00

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\001.D
Lab Smp Id: ICAL1 Client Smp ID: ICAL1
Inj Date : 24-JAN-2017 09:06
Operator : JA Inst ID: FID-4.i
Smp Info : ICAL1;ICAL1;;;
Misc Info :
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\RSKNI2.m
Meth Date : 28-Sep-2022 10:00 FID-4.i Quant Type: ESTD
Cal Date : 24-JAN-2017 11:13 Cal File: 007.D
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: stdNIP2.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	1.043	1.043	0.000	374	0.38600	0.383(a)
2 Ethene	1.553	1.553	0.000	361	0.67400	0.615(a)
3 Ethane	1.716	1.716	0.000	435	0.72200	0.590(a)
4 Propane	4.073	4.073	0.000	500	1.05900	1.743
5 N-Butane	7.640	7.640	0.000	438	1.39800	3.271

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\001.D

Date : 24-JAN-2017 09:06

Client ID: ICAL1

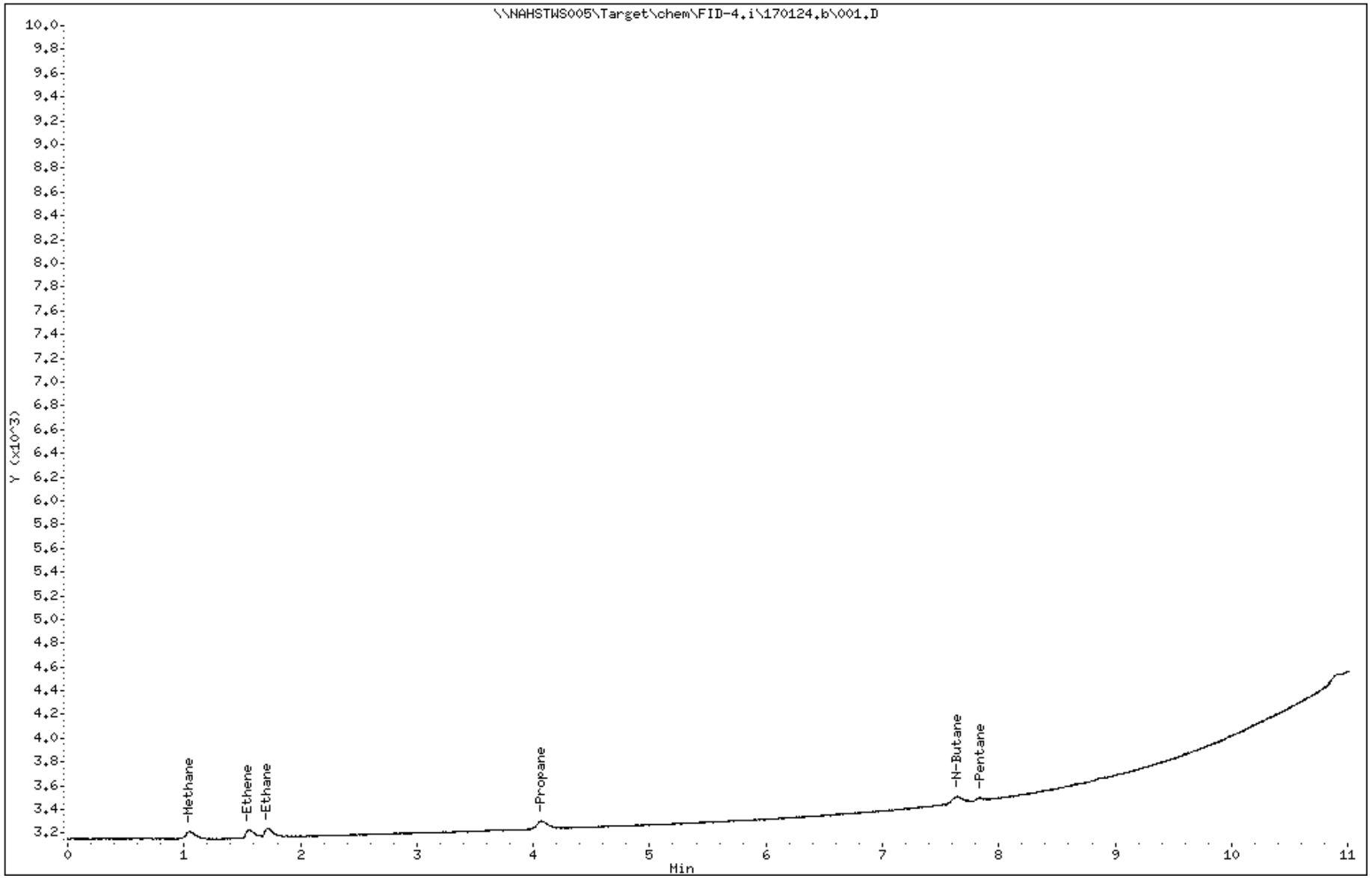
Instrument: FID-4.i

Sample Info: ICAL1;ICAL1;;;

Operator: JA

Column phase: Rtx-PLOT

Column diameter: 0.53



Data File : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\001.D
Inj Date : 24-JAN-2017 09:06
InstruID : FID-4.i
LabSampID : ICAL1

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\002.D Page 1
Report Date: 28-Sep-2022 10:00

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\002.D
Lab Smp Id: ICAL2 Client Smp ID: ICAL2
Inj Date : 24-JAN-2017 09:30
Operator : MA Inst ID: FID-4.i
Smp Info : ICAL2;ICAL2;;;
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\RSKNI2.m
Meth Date : 28-Sep-2022 10:00 FID-4.i Quant Type: ESTD
Cal Date : 24-JAN-2017 09:06 Cal File: 001.D
Als bottle: 2 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: stdNIP2.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	1.023	1.023	0.000	944	0.96500	0.968
2 Ethene	1.560	1.560	0.000	956	1.68500	1.630
3 Ethane	1.723	1.723	0.000	1209	1.80400	1.641
4 Propane	4.123	4.123	0.000	1279	2.64600	2.927
5 N-Butane	7.716	7.716	0.000	936	3.49600	4.180

Data File: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\002.D

Date : 24-JAN-2017 09:30

Client ID: ICAL2

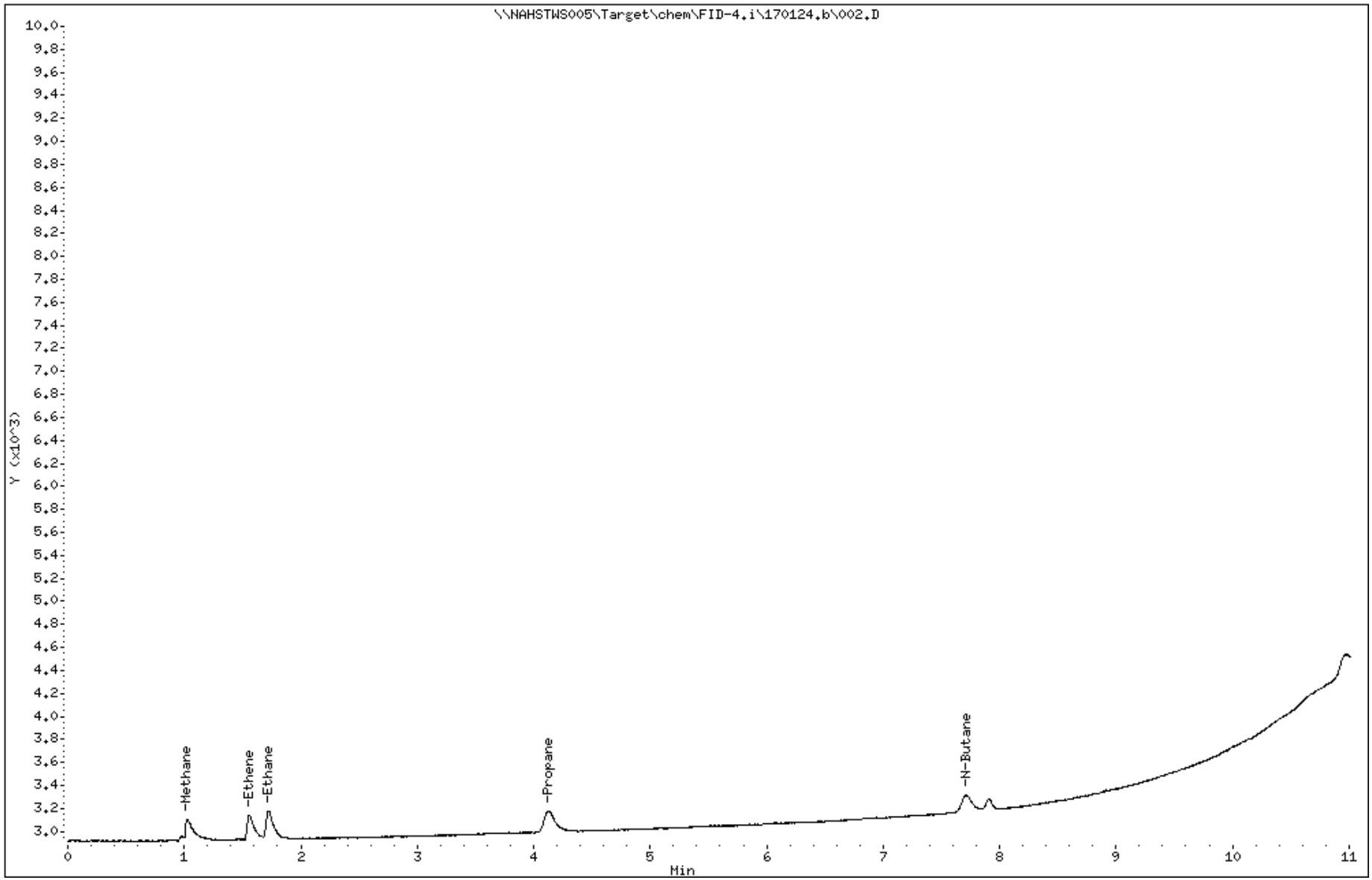
Instrument: FID-4.i

Sample Info: ICAL2;ICAL2;;;

Operator: MA

Column phase: Rtx-PLOT

Column diameter: 0.53



Data File : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\002.D
Inj Date : 24-JAN-2017 09:30
InstruID : FID-4.i
LabSampID : ICAL2

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\003.D Page 1
Report Date: 28-Sep-2022 10:00

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\003.D
Lab Smp Id: ICAL3 Client Smp ID: ICAL3
Inj Date : 24-JAN-2017 09:59
Operator : MA Inst ID: FID-4.i
Smp Info : ICAL3;ICAL3;;;
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\RSKNI2.m
Meth Date : 28-Sep-2022 10:00 FID-4.i Quant Type: ESTD
Cal Date : 24-JAN-2017 09:30 Cal File: 002.D
Als bottle: 3 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: stdNIP2.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	1.043	1.043	0.000	1967	1.92900	2.018
2 Ethene	1.570	1.570	0.000	1904	3.37000	3.247
3 Ethane	1.736	1.736	0.000	2378	3.60900	3.229
4 Propane	4.123	4.123	0.000	2602	5.29300	4.926
5 N-Butane	7.703	7.703	0.000	2034	6.99100	6.176

Data File: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\003.D

Date : 24-JAN-2017 09:59

Client ID: ICAL3

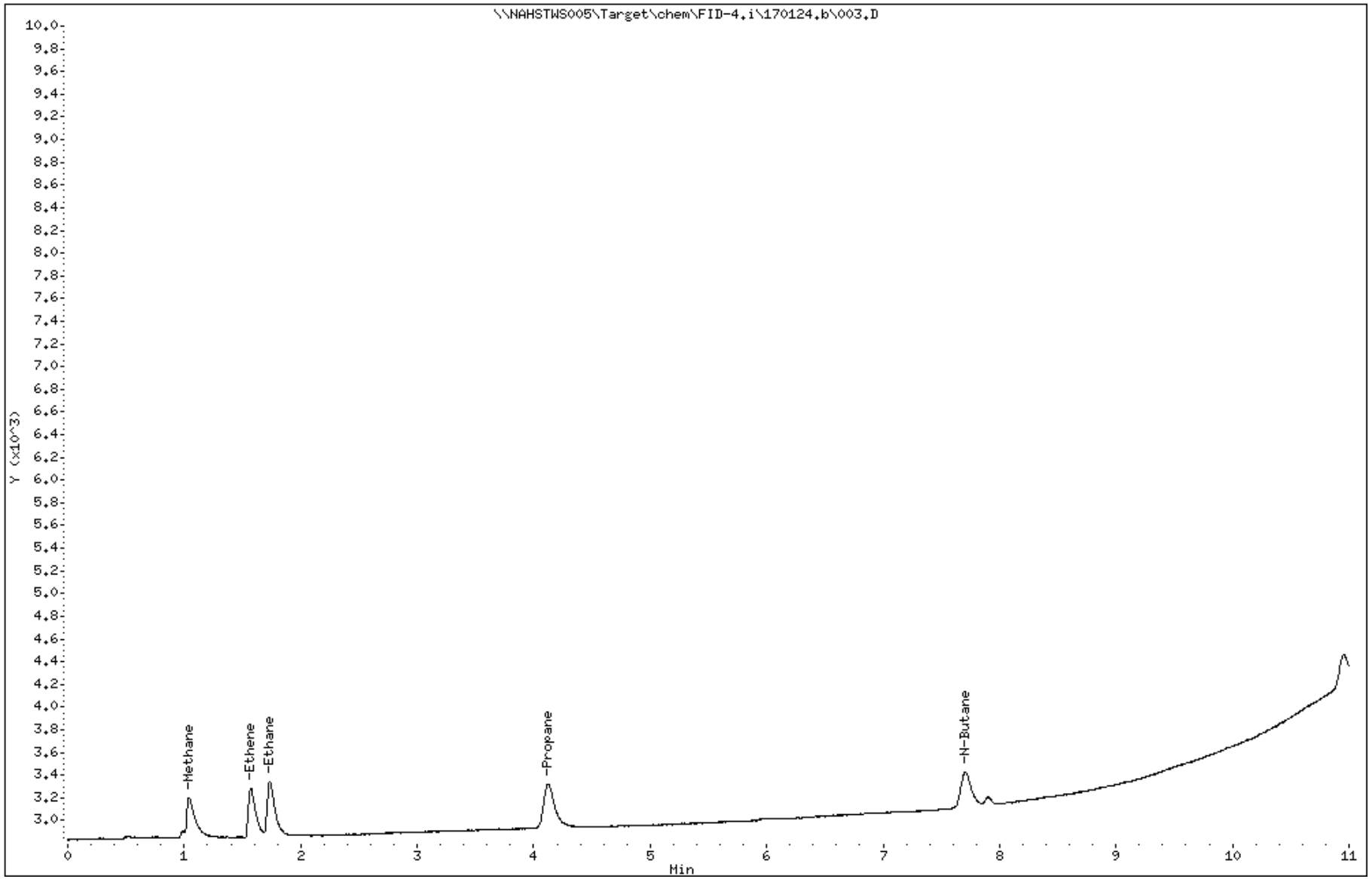
Instrument: FID-4.i

Sample Info: ICAL3;ICAL3;;;

Operator: MA

Column phase: Rtx-PLOT

Column diameter: 0.53



Data File : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\003.D
Inj Date : 24-JAN-2017 09:59
InstruID : FID-4.i
LabSampID : ICAL3

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\004.D Page 1
Report Date: 28-Sep-2022 10:02

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\004.D
Lab Smp Id: ICAL4 Client Smp ID: ICAL4
Inj Date : 24-JAN-2017 10:15
Operator : MA Inst ID: FID-4.i
Smp Info : ICAL4;ICAL4;;;
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\RSKNI2.m
Meth Date : 28-Sep-2022 10:02 FID-4.i Quant Type: ESTD
Cal Date : 24-JAN-2017 11:13 Cal File: 007.D
Als bottle: 4 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: stdNIP2.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Methane	1.033	1.033	0.000	3399	3.85900	3.488
2 Ethene	1.563	1.563	0.000	3478	6.74000	5.932
3 Ethane	1.726	1.726	0.000	4310	7.21700	5.853
4 Propane	4.120	4.120	0.000	4785	10.5850	8.190
5 N-Butane	7.703	7.703	0.000	3864	13.9820	9.473(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\004.D

Date : 24-JAN-2017 10:15

Client ID: ICAL4

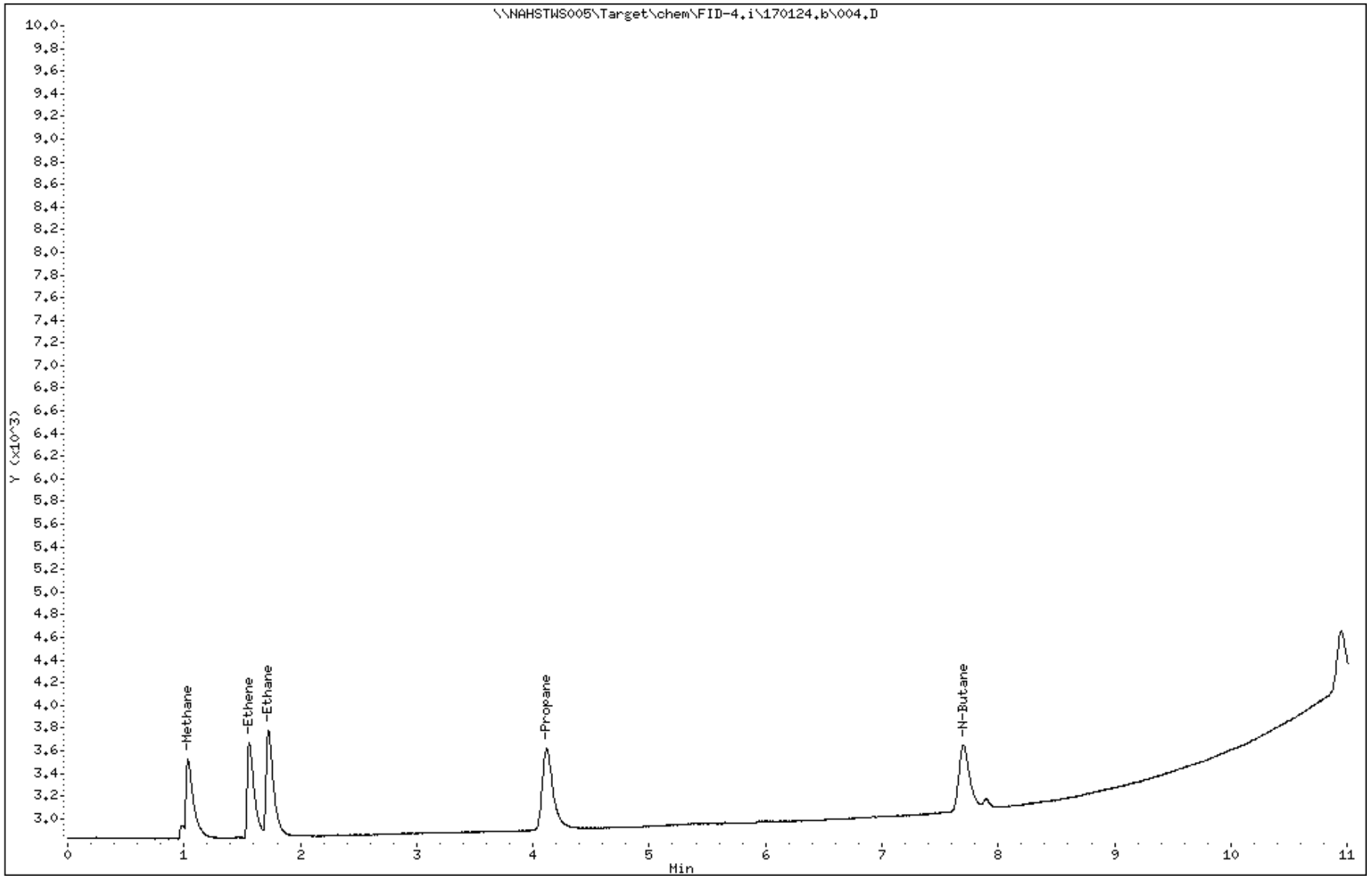
Instrument: FID-4.i

Sample Info: ICAL4;ICAL4;;;

Operator: MA

Column phase: Rtx-PLOT

Column diameter: 0.53



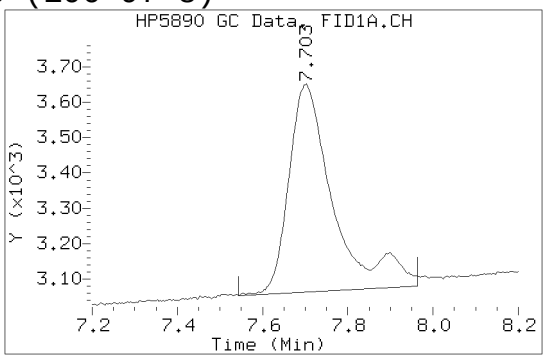
Data File : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\004.D
Inj Date : 24-JAN-2017 10:15
InstruID : FID-4.i
LabSampID : ICAL4

N-Butane (106-97-8)

Reason Code:

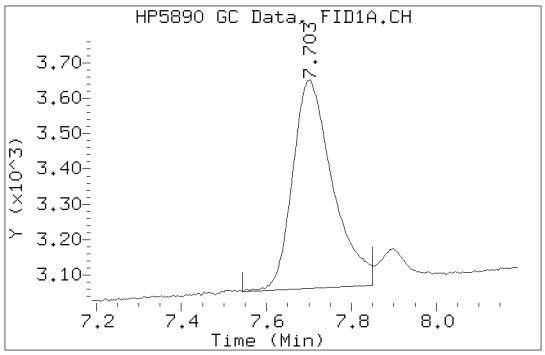
BEFORE

MASS
100
AREA
4292
HEIGHT
591
28-Sep-2022
10:02
linh
pham



AFTER

MASS
100
AREA
3864
HEIGHT
591
28-Sep-2022
10:02
linh
pham



Data File: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\005.D Page 1
Report Date: 28-Sep-2022 10:02

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\005.D
Lab Smp Id: ICAL5 Client Smp ID: ICAL5
Inj Date : 24-JAN-2017 10:39
Operator : MA Inst ID: FID-4.i
Smp Info : ICAL5;ICAL5;;;
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\RSKNI2.m
Meth Date : 28-Sep-2022 10:02 FID-4.i Quant Type: ESTD
Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
Als bottle: 5 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: stdNIP2.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	1.043	1.043	0.000	9268	9.64700	9.511
2 Ethene	1.570	1.570	0.000	11210	16.8500	19.121
3 Ethane	1.733	1.733	0.000	14588	18.0430	19.811
4 Propane	4.120	4.120	0.000	18294	26.4630	27.415
5 N-Butane	7.700	7.700	0.000	18446	34.9550	34.419(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\005.D

Date : 24-JAN-2017 10:39

Client ID: ICAL5

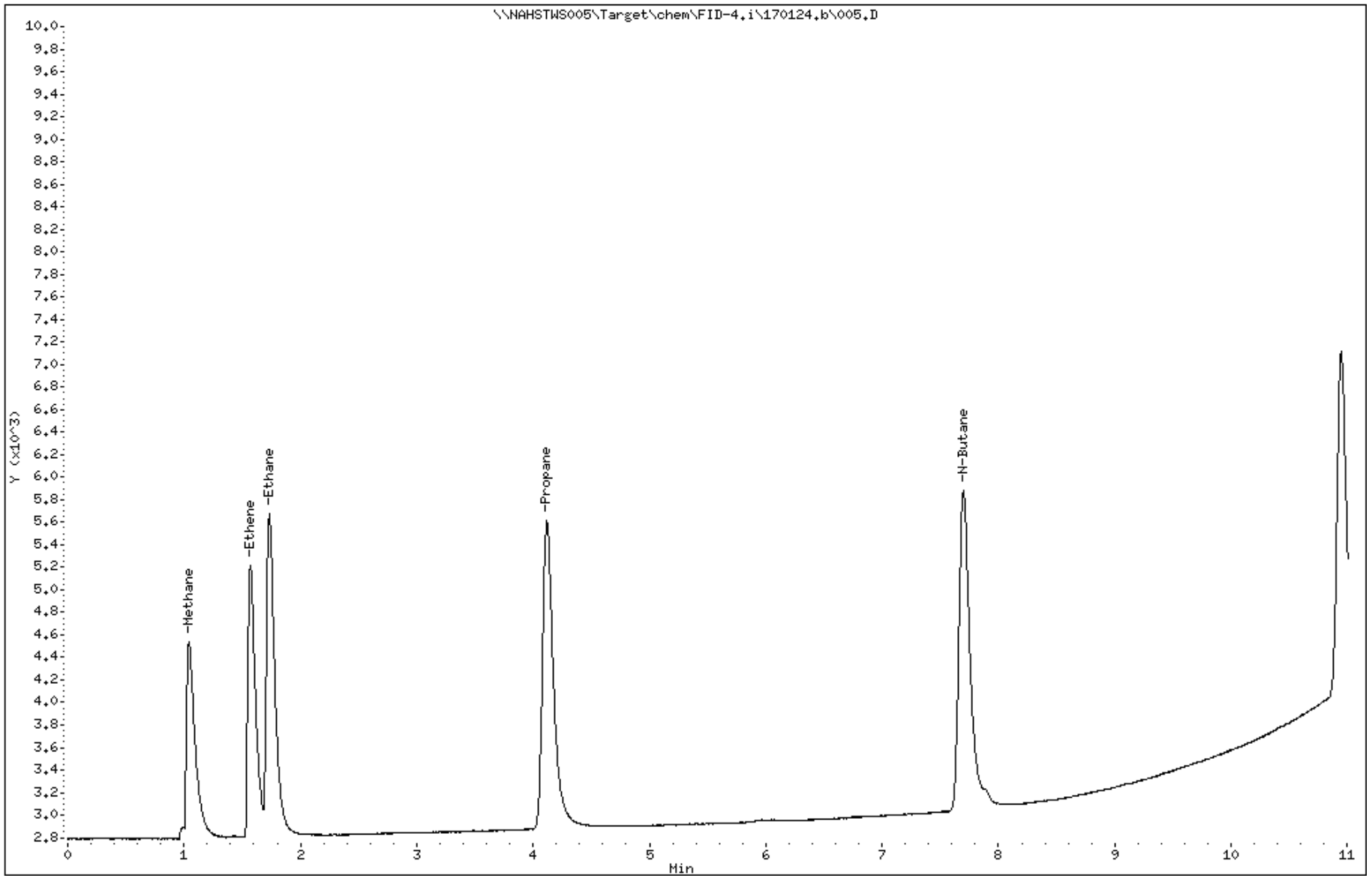
Instrument: FID-4.i

Sample Info: ICAL5;ICAL5;;;

Operator: MA

Column phase: Rtx-PLOT

Column diameter: 0.53



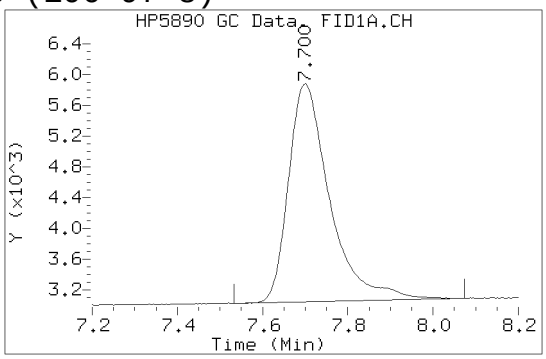
Data File : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\005.D
Inj Date : 24-JAN-2017 10:39
InstruID : FID-4.i
LabSampID : ICAL5

N-Butane (106-97-8)

Reason Code:

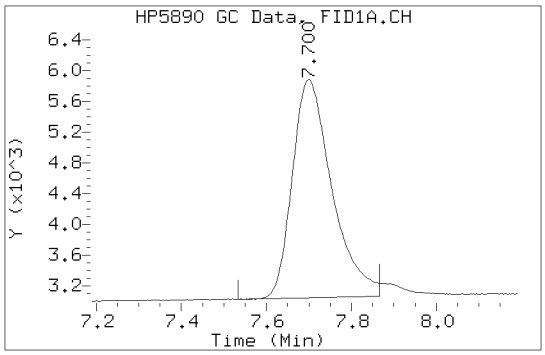
BEFORE

MASS
100
AREA
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HEIGHT
2839
28-Sep-2022
10:02
linh
pham



AFTER

MASS
100
AREA
18446
HEIGHT
2838
28-Sep-2022
10:02
linh
pham



Data File: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\006.D Page 1
Report Date: 28-Sep-2022 10:00

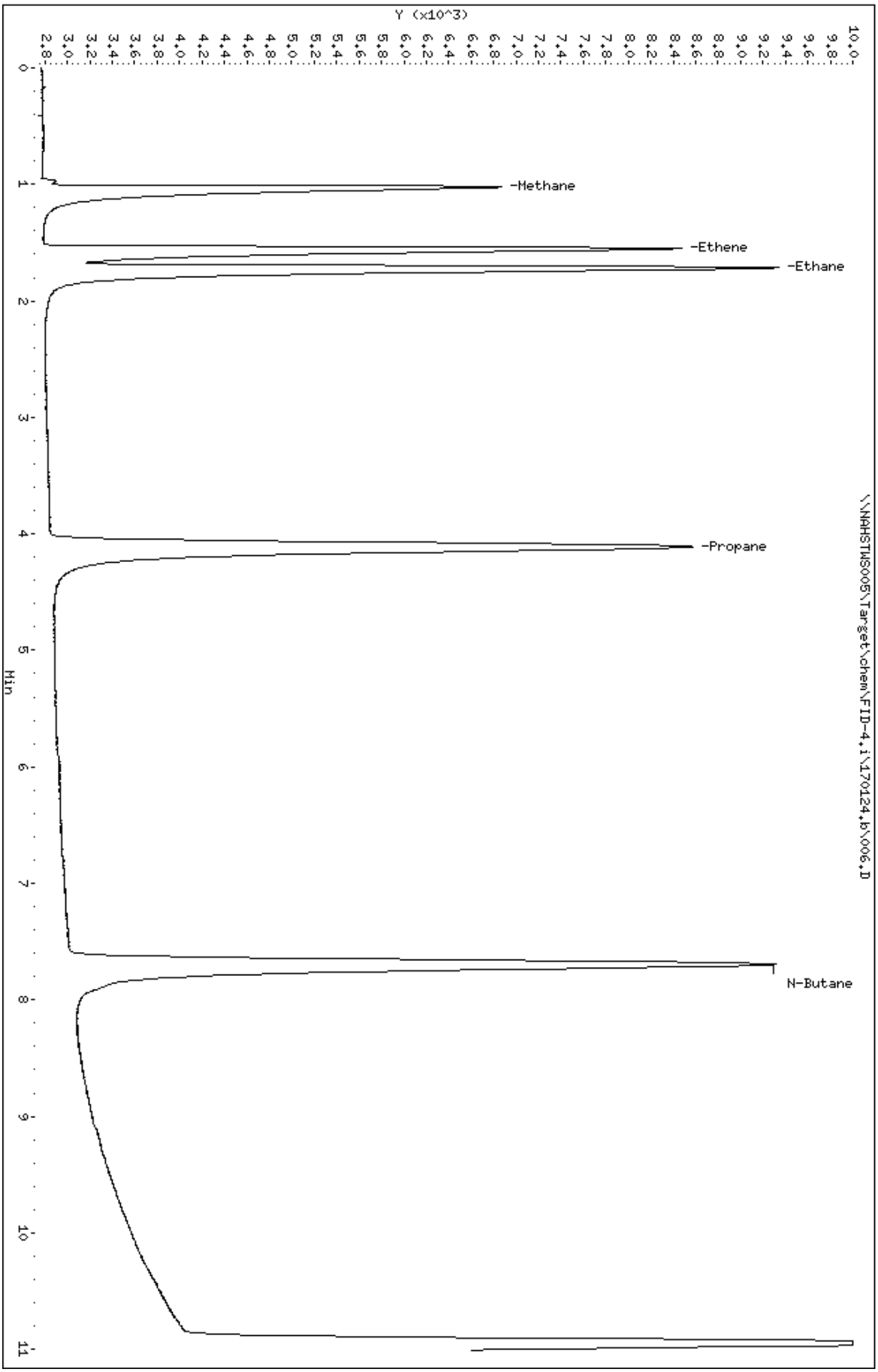
ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\006.D
Lab Smp Id: ICAL6 Client Smp ID: ICAL6
Inj Date : 24-JAN-2017 10:57
Operator : MA Inst ID: FID-4.i
Smp Info : ICAL6;ICAL6;;;
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\RSKNI2.m
Meth Date : 28-Sep-2022 10:00 FID-4.i Quant Type: ESTD
Cal Date : 24-JAN-2017 10:39 Cal File: 005.D
Als bottle: 6 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: stdNIP2.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	1.023	1.023	0.000	17957	19.2940	18.429
2 Ethene	1.550	1.550	0.000	22910	53.8200	39.078
3 Ethane	1.716	1.716	0.000	29505	36.0860	40.070
4 Propane	4.110	4.110	0.000	38286	52.9260	52.796
5 N-Butane	7.696	7.696	0.000	42817	69.9110	70.855


Data File: \\NAHSTWS005\Target\chem\FID-4,i\170124,b\006,D
Date : 24-JAN-2017 10:57
Client ID: ICAL6
Sample Info: ICAL6;ICAL6;;;
Column phase: Rtx-PLOT
Instrument: FID-4,i
Operator: MA
Column diameter: 0.53
Page 1
Y (x10^3)
-Methane
-Ethene
-Ethane
-Propane
N-Butane
Min
\\NAHSTWS005\Target\chem\FID-4,i\170124,b\006,D

Data File : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\006.D
Inj Date : 24-JAN-2017 10:57
InstruID : FID-4.i
LabSampID : ICAL6

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\007.D Page 1
Report Date: 28-Sep-2022 10:00

ALS Laboratory Group

Dissolved Gases Analysis

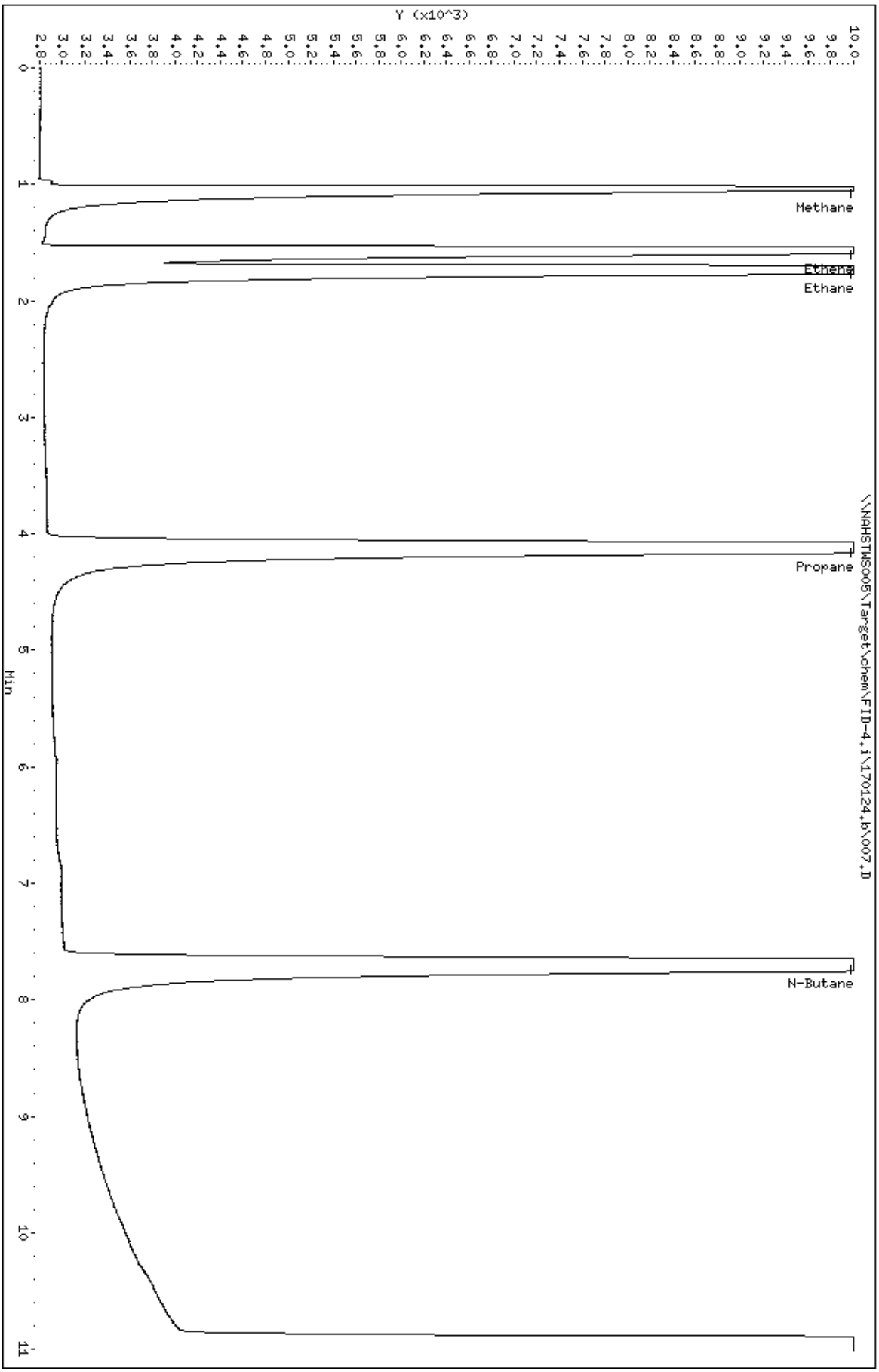
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Lab Smp Id: ICAL7 Client Smp ID: ICAL7
Inj Date : 24-JAN-2017 11:13
Operator : MA Inst ID: FID-4.i
Smp Info : ICAL7;ICAL7;;;
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\RSKNI2.m
Meth Date : 28-Sep-2022 10:00 FID-4.i Quant Type: ESTD
Cal Date : 24-JAN-2017 10:57 Cal File: 006.D
Als bottle: 7 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: stdNIP2.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	1.030	1.030	0.000	41736	38.5880	42.833(A)
2 Ethene	1.556	1.556	0.000	55865	67.4000	95.291(A)
3 Ethane	1.723	1.723	0.000	72124	72.1720	97.951(A)
4 Propane	4.113	4.113	0.000	96509	105.852	105.844
5 N-Butane	7.690	7.690	0.000	114164	139.821	139.707

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.


Data File: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\007.D
Date : 24-JAN-2017 11:13
Client ID: ICAL7
Sample Info: ICAL7;ICAL7;;;
Column phase: Rtx-PLOT
Instrument: FID-4.i
Operator: MA
Column diameter: 0.53
Page 1
Y (x10^3)
Methane
Ethene
Ethane
Propane
N-Butane
Min
\\NAHSTWS005\Target\chem\FID-4.i\170124.b\007.D

Data File : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\007.D
Inj Date : 24-JAN-2017 11:13
InstruID : FID-4.i
LabSampID : ICAL7

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\008.D Page 1
Report Date: 28-Sep-2022 10:00

ALS Laboratory Group

Dissolved Gases Analysis

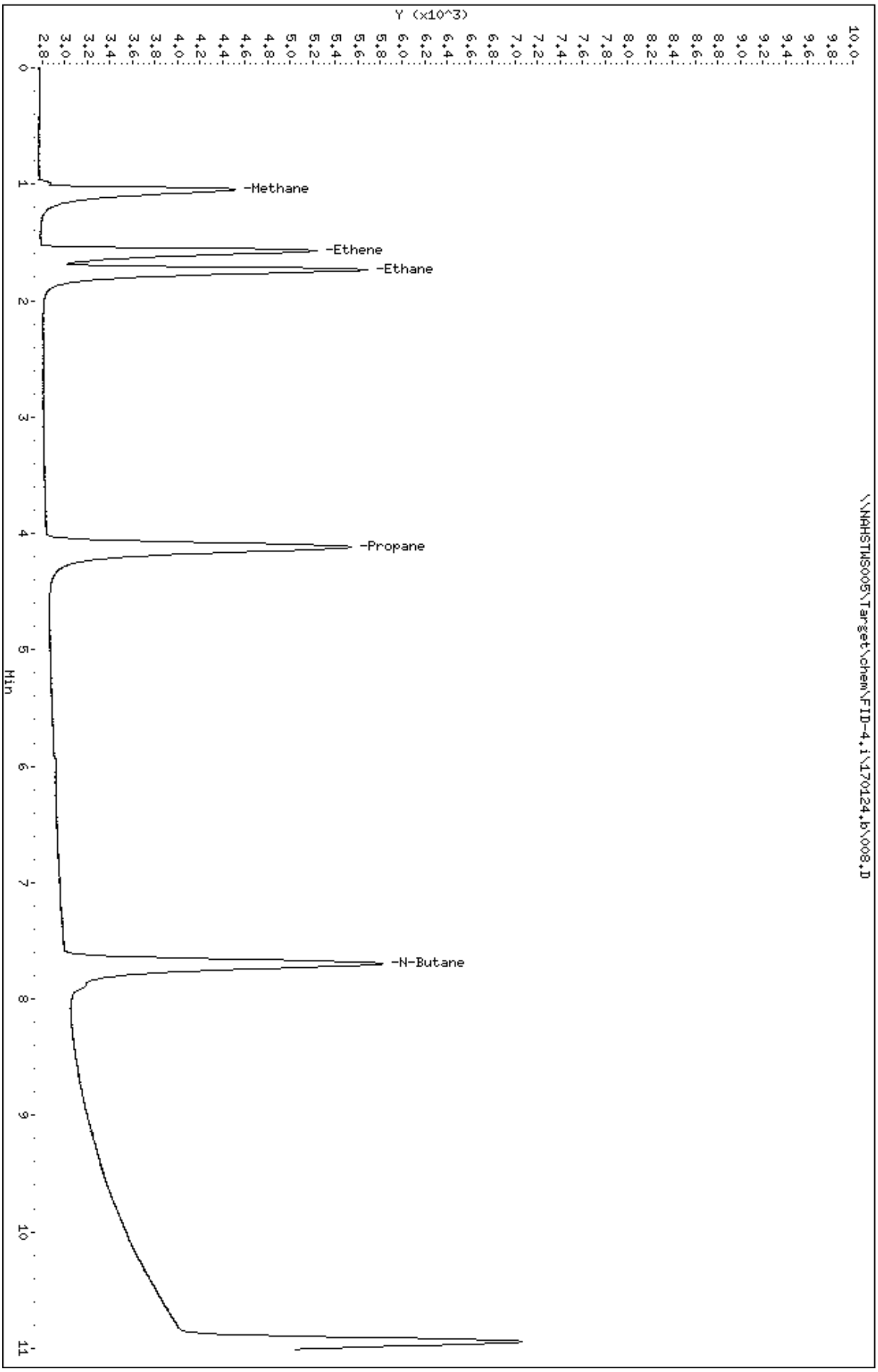
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Lab Smp Id: ICV Client Smp ID: ICV
Inj Date : 24-JAN-2017 12:05
Operator : MA Inst ID: FID-4.i
Smp Info : ICV;ICV;;;
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\RSKNI2.m
Meth Date : 28-Sep-2022 10:00 FID-4.i Quant Type: ESTD
Cal Date : 24-JAN-2017 11:13 Cal File: 007.D
Als bottle: 8 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: stdNIP2.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	1.046	1.030	0.016	9352	9.59792	9.597
2 Ethene	1.573	1.556	0.017	11192	19.0906	19.090
3 Ethane	1.736	1.723	0.013	14474	19.6571	19.657
4 Propane	4.116	4.113	0.003	18164	27.2381	27.238
5 N-Butane	7.696	7.690	0.006	19425	36.0103	36.010

Data File: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\008.D
Date : 24-JAN-2017 12:05
Client ID: ICV
Sample Info: ICV;ICV;;;
Column phase: Rtx-PLOT

Instrument: FID-4.i
Operator: MA
Column diameter: 0.53



Data File : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\008.D
Inj Date : 24-JAN-2017 12:05
InstruID : FID-4.i
LabSampID : ICV

NO MANUAL INTEGRATIONS

right solutions.
right partner.

RawData

Dissolved Gasses by Dissolved Gases by RSK-175

Workorder

HS24021563

Client

Bhate Environmental Associates, Inc.

Project

LHAAP / Site 46

03/21/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\240228.b\001.D
Lab Smp Id: RSK-CCV Client Smp ID: RSK-CCV
Inj Date : 28-FEB-2024 08:21
Operator : PL Inst ID: FID-4.i
Smp Info : RSK-CCV;RSK-CCV;2;4
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\240228.b\RSKNI3.m
Meth Date : 21-Mar-2024 10:01 FID-4.i Quant Type: ESTD
Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	0.436	0.436	0.000	7530	9.64700	7.723(M)
2 Ethene	0.640	0.640	0.000	8631	16.8500	14.734(M)
3 Ethane	0.703	0.703	0.000	13268	18.0430	18.440

QC Flag Legend

M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\FID-4.i\240228.b\001.D

Date : 28-FEB-2024 08:21

Client ID: RSK-CCV

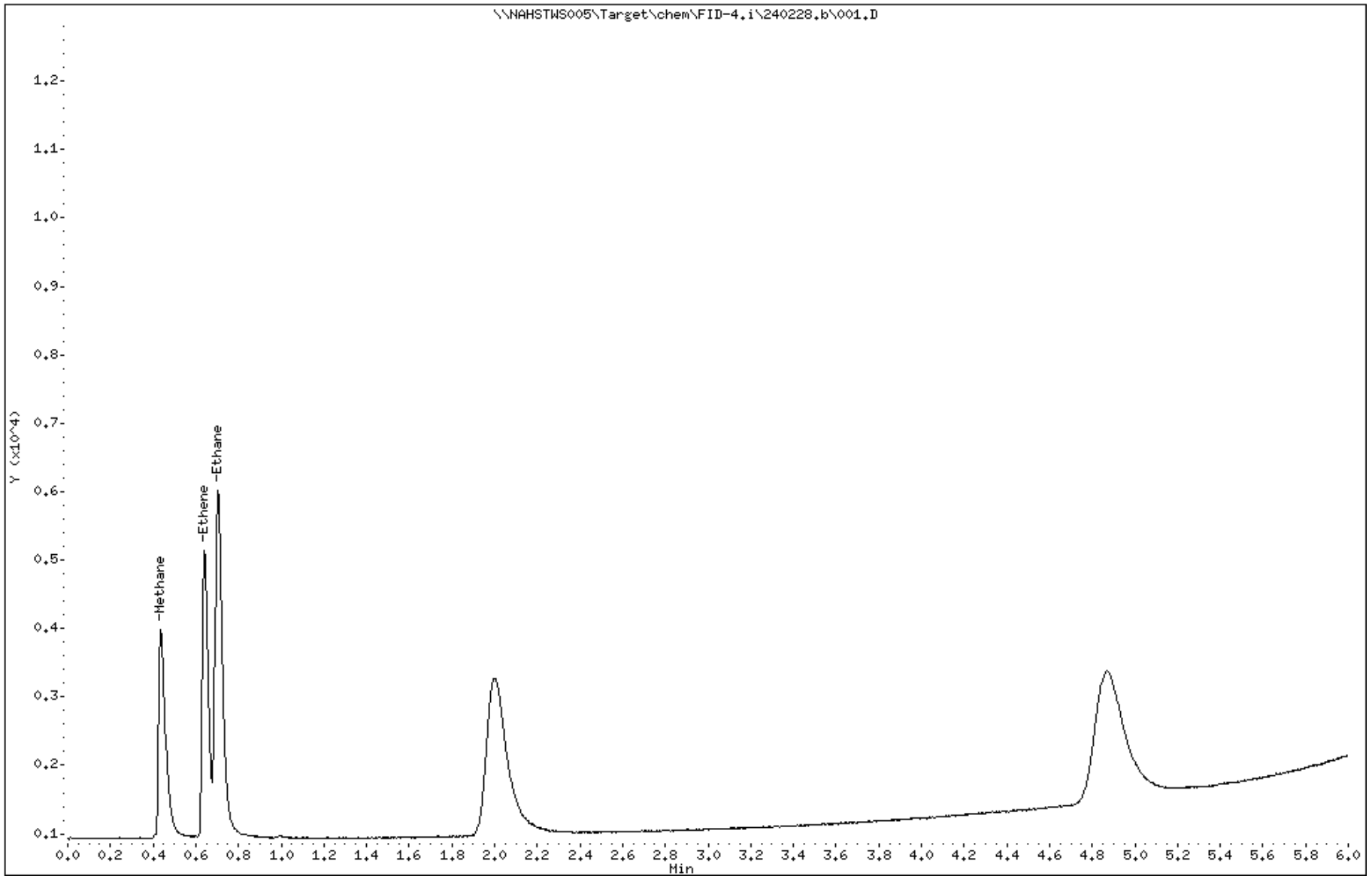
Instrument: FID-4.i

Sample Info: RSK-CCV;RSK-CCV;2;4

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



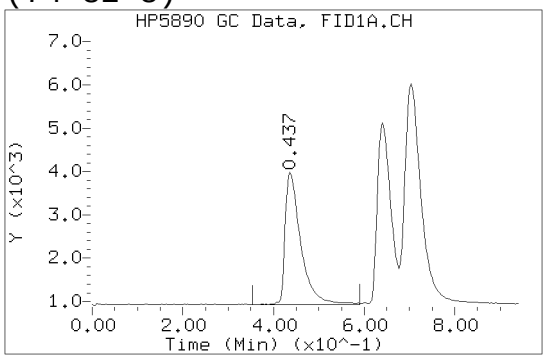
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Inj Date : 28-FEB-2024 08:21
InstruID : FID-4.i
LabSampID : RSK-CCV

Methane (74-82-8)

Reason Code:

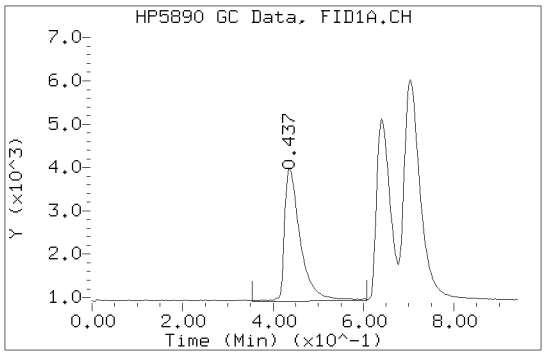
BEFORE

MASS
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HEIGHT
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28-Feb-2024
08:28
ALSHS
Server



AFTER

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AREA
7530
HEIGHT
3067
21-Mar-2024
10:01
ALSHS
Ser

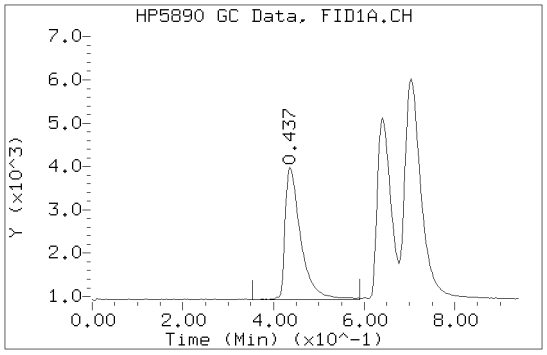


Ethene (74-85-1)

Reason Code:

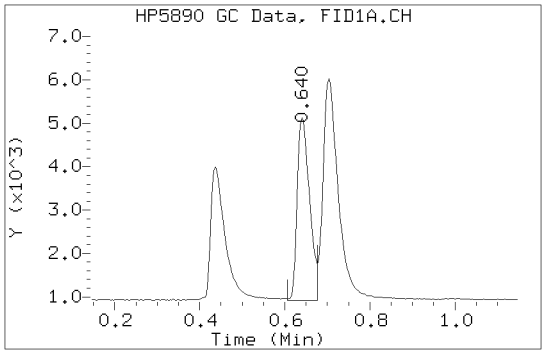
BEFORE

MASS
100
AREA
0
HEIGHT
0
28-Feb-2024
08:28
ALSHS
Server



AFTER

MASS
100
AREA
8631
HEIGHT
4214
21-Mar-2024
10:01
ALSHS
Ser



Data File: \\NAHSTWS005\Target\chem\FID-4.i\240228.b\002.D Page 1
Report Date: 28-Feb-2024 08:56

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\240228.b\002.D
Lab Smp Id: MBLK-240228 Client Smp ID: MBLK-240228
Inj Date : 28-FEB-2024 08:31
Operator : PL Inst ID: FID-4.i
Smp Info : MBLK-240228;MBLK-240228;3;;BLANK
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\240228.b\RSKNI3.m
Meth Date : 28-Feb-2024 08:29 elona.hasa Quant Type: ESTD
Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
Als bottle: 2 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7025

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)

Data File: \\NAHSTWS005\Target\chem\FID-4.i\240228.b\002.D

Date : 28-FEB-2024 08:31

Client ID: MBLK-240228

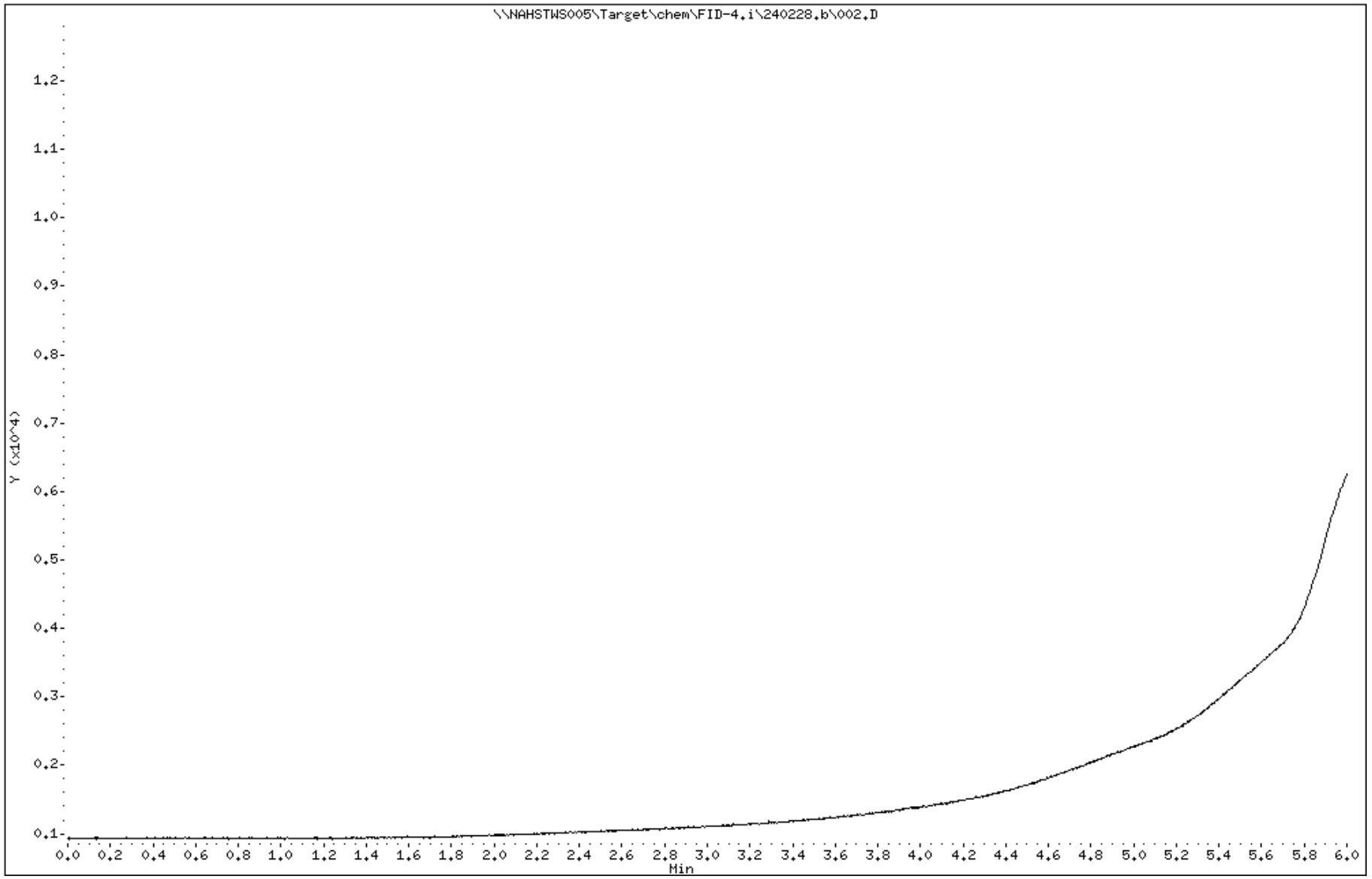
Instrument: FID-4.i

Sample Info: MBLK-240228;MBLK-240228;3;;BLANK

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



Data File : \\NAHSTWS005\Target\chem\FID-4.i\240228.b\002.D
Inj Date : 28-FEB-2024 08:31
InstruID : FID-4.i
LabSampID : MBLK-240228

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\FID-4.i\240228.b\003.D Page 1
Report Date: 01-Mar-2024 08:07

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\240228.b\003.D
Lab Smp Id: LCS-240228 Client Smp ID: LCS-240228
Inj Date : 28-FEB-2024 08:44
Operator : PL Inst ID: FID-4.i
Smp Info : LCS-240228;LCS-240228;3;;LCS
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\240228.b\RSKNI3.m
Meth Date : 28-Feb-2024 14:28 elona.hasa Quant Type: ESTD
Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
Als bottle: 3 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7025

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	0.436	0.436	0.000	8248	8.45955	8.459
2 Ethene	0.643	0.640	0.003	9169	15.6532	15.653
3 Ethane	0.706	0.703	0.003	13813	19.1983	19.198(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\FID-4.i\240228.b\003.D

Date : 28-FEB-2024 08:44

Client ID: LCS-240228

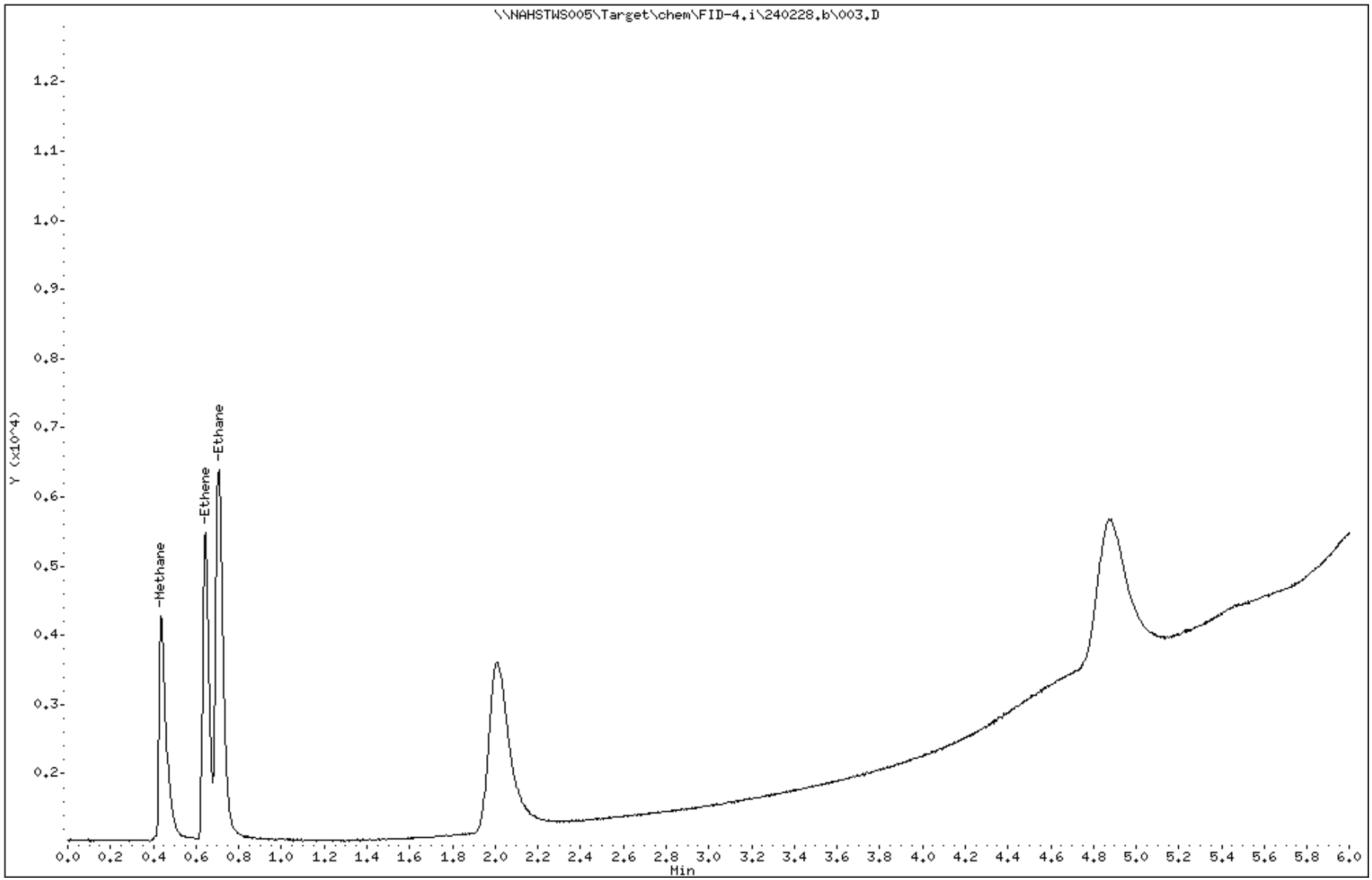
Instrument: FID-4.i

Sample Info: LCS-240228;LCS-240228;3;;LCS

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



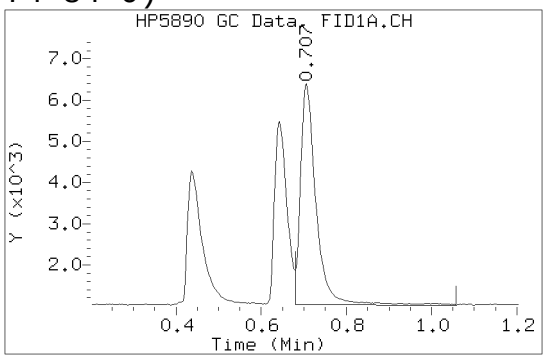
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Inj Date : 28-FEB-2024 08:44
InstruID : FID-4.i
LabSampID : LCS-240228

Ethane (74-84-0)

Reason Code:

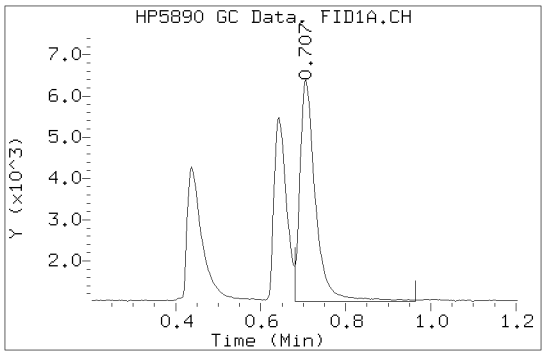
BEFORE

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44
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13571
HEIGHT
5356
28-Feb-2024
08:50
ALSHS
Server



AFTER

MASS
44
AREA
13813
HEIGHT
5377
01-Mar-2024
08:07
ALSHS
Server



Data File: \\NAHSTWS005\Target\chem\FID-4.i\240228.b\008.D Page 1
Report Date: 01-Mar-2024 08:11

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\240228.b\008.D
Lab Smp Id: HS24021563-05 Client Smp ID: HS24021563-05
Inj Date : 28-FEB-2024 10:05
Operator : PL Inst ID: FID-4.i
Smp Info : HS24021563-05;HS24021563-05
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\240228.b\RSKNI3.m
Meth Date : 28-Feb-2024 14:28 elona.hasa Quant Type: ESTD
Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7025

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	0.443	0.436	0.007	1924	1.97335	1.973

Data File: \\NAHSTWS005\Target\chem\FID-4.i\240228.b\008.D

Date : 28-FEB-2024 10:05

Client ID: HS24021563-05

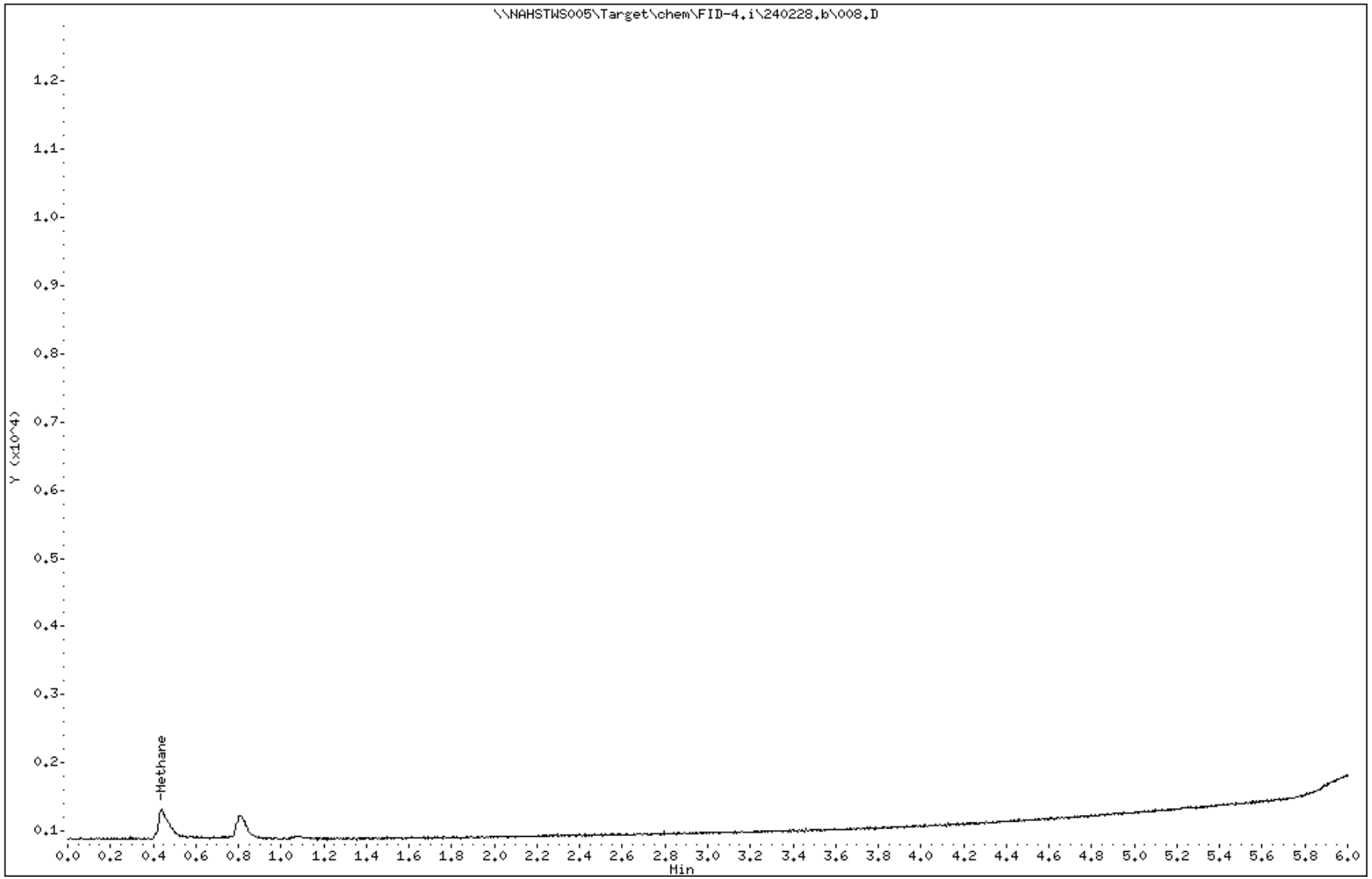
Instrument: FID-4.i

Sample Info: HS24021563-05;HS24021563-05

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



Data File : \\NAHSTWS005\Target\chem\FID-4.i\240228.b\008.D
Inj Date : 28-FEB-2024 10:05
InstruID : FID-4.i
LabSampID : HS24021563-05

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\FID-4.i\240228.b\009.D Page 1
Report Date: 01-Mar-2024 08:12

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\240228.b\009.D
Lab Smp Id: HS24021563-06 Client Smp ID: HS24021563-06
Inj Date : 28-FEB-2024 10:16
Operator : PL Inst ID: FID-4.i
Smp Info : HS24021563-06;HS24021563-06
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\240228.b\RSKNI3.m
Meth Date : 28-Feb-2024 14:28 elona.hasa Quant Type: ESTD
Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7025

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	0.440	0.436	0.004	2960	3.03592	3.035
3 Ethane	0.710	0.703	0.007	1364	1.89579	1.895

Data File: \\NAHSTWS005\Target\chem\FID-4.i\240228.b\009.D

Date : 28-FEB-2024 10:16

Client ID: HS24021563-06

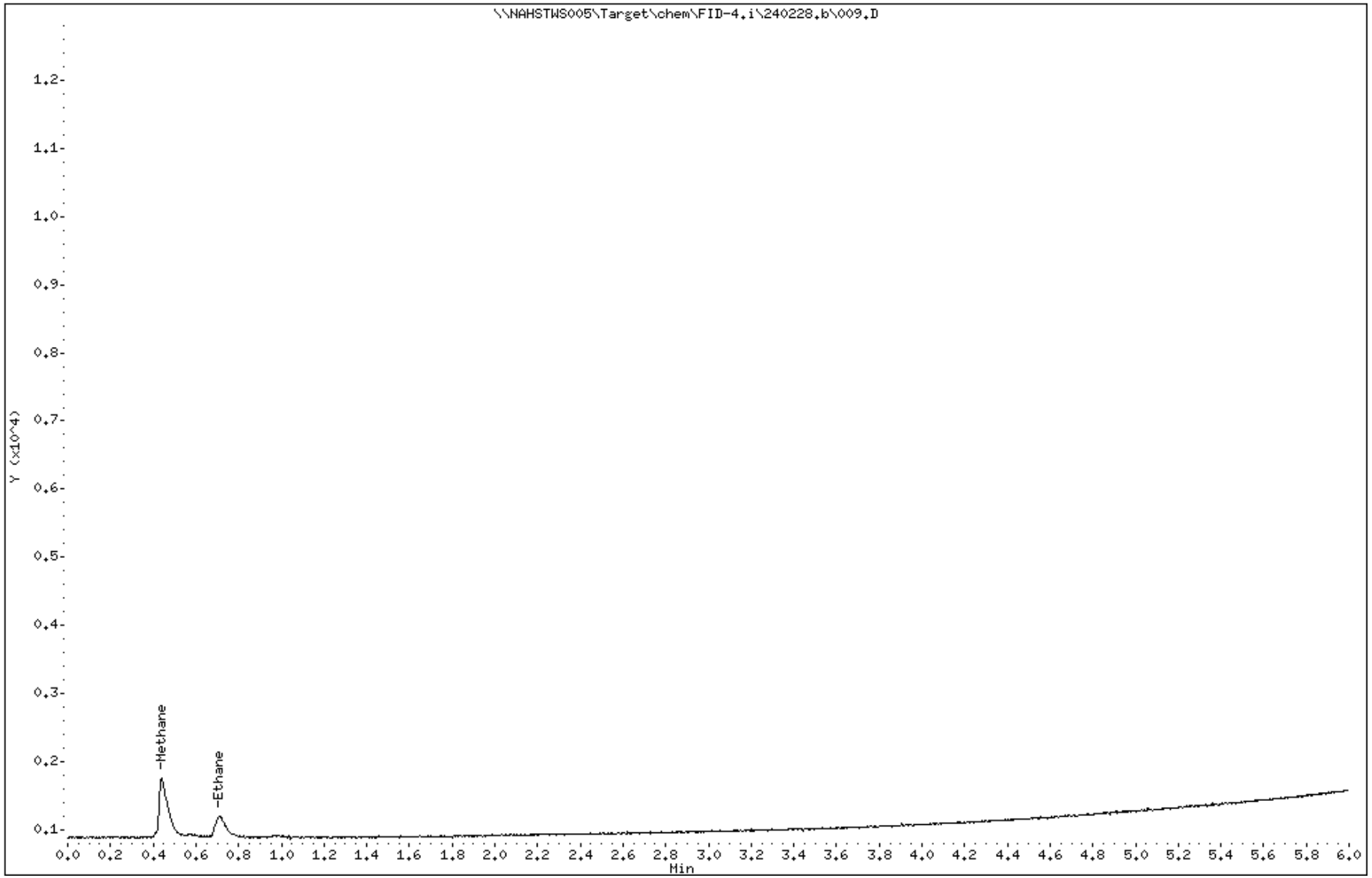
Instrument: FID-4.i

Sample Info: HS24021563-06;HS24021563-06

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



Data File : \\NAHSTWS005\Target\chem\FID-4.i\240228.b\009.D
Inj Date : 28-FEB-2024 10:16
InstruID : FID-4.i
LabSampID : HS24021563-06

NO MANUAL INTEGRATIONS

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\240228.b\011.D
Lab Smp Id: RSK-CCV Client Smp ID: RSK-CCV
Inj Date : 28-FEB-2024 10:34
Operator : JA Inst ID: FID-4.i
Smp Info : RSK-CCV;RSK-CCV;2;4
Misc Info :
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\240228.b\RSKNI3.m
Meth Date : 28-Feb-2024 10:42 elona.hasa Quant Type: ESTD
Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
Als bottle: 11 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7025

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	0.440	0.440	0.000	8900	9.64700	9.128
2 Ethene	0.643	0.643	0.000	8835	16.8500	15.082
3 Ethane	0.706	0.706	0.000	13451	18.0430	18.695

Data File: \\NAHSTWS005\Target\chem\FID-4.i\240228.b\011.D

Date : 28-FEB-2024 10:34

Client ID: RSK-CCV

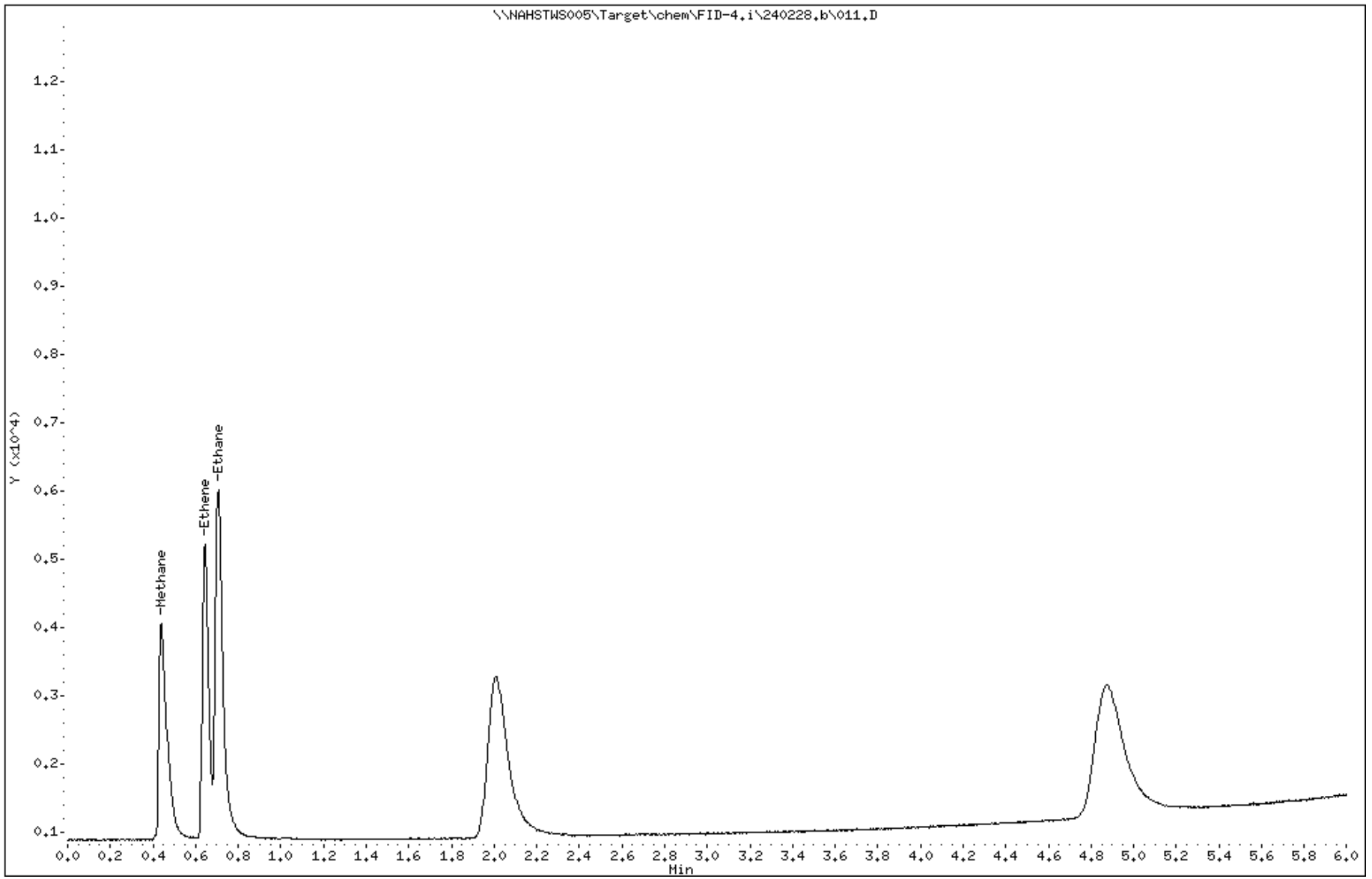
Instrument: FID-4.i

Sample Info: RSK-CCV;RSK-CCV;2;4

Operator: JA

Column phase: Rtx-PLOT

Column diameter: 0.53



Data File : \\NAHSTWS005\Target\chem\FID-4.i\240228.b\011.D
Inj Date : 28-FEB-2024 10:34
InstruID : FID-4.i
LabSampID : RSK-CCV

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\FID-4.i\240228.b\022.D Page 1
Report Date: 28-Feb-2024 13:17

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\240228.b\022.D
Lab Smp Id: RSK-CCV Client Smp ID: RSK-CCV
Inj Date : 28-FEB-2024 13:07
Operator : PL Inst ID: FID-4.i
Smp Info : RSK-CCV;RSK-CCV;2;4
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\240228.b\RSKNI3.m
Meth Date : 28-Feb-2024 13:16 elona.hasa Quant Type: ESTD
Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
Als bottle: 22 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7025

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	0.433	0.433	0.000	7941	9.64700	8.144
2 Ethene	0.640	0.640	0.000	8640	16.8500	14.750
3 Ethane	0.703	0.703	0.000	13102	18.0430	18.210

Data File: \\NAHSTWS005\Target\chem\FID-4.i\240228.b\022.D

Date : 28-FEB-2024 13:07

Client ID: RSK-CCV

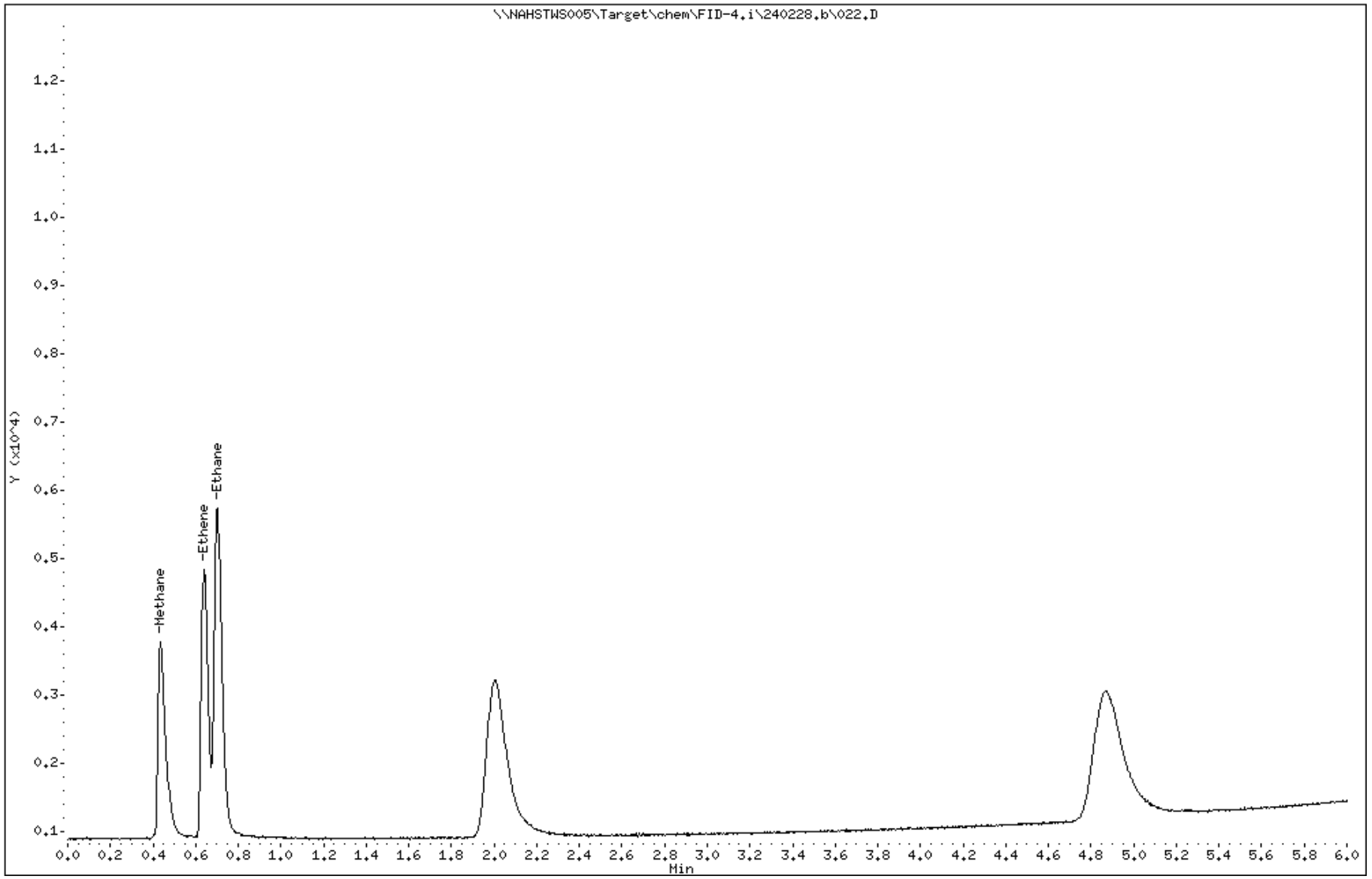
Instrument: FID-4.i

Sample Info: RSK-CCV;RSK-CCV;2;4

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



Data File : \\NAHSTWS005\Target\chem\FID-4.i\240228.b\022.D
Inj Date : 28-FEB-2024 13:07
InstruID : FID-4.i
LabSampID : RSK-CCV

NO MANUAL INTEGRATIONS

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\240228.b\025.D
Lab Smp Id: LCSD-240228 Client Smp ID: LCSD-240228
Inj Date : 28-FEB-2024 13:43
Operator : PL Inst ID: FID-4.i
Smp Info : LCSD-240228;LCSD-240228;3;;LCSD
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\240228.b\RSKNI3.m
Meth Date : 28-Feb-2024 13:59 elona.hasa Quant Type: ESTD
Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
Als bottle: 25 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7025

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	0.436	0.470	-0.034	7394	7.58365	7.583
2 Ethene	0.643	0.640	0.003	8712	14.8730	14.872
3 Ethane	0.706	0.703	0.003	12632	17.5569	17.556

Data File: \\NAHSTWS005\Target\chem\FID-4.i\240228.b\025.D

Date : 28-FEB-2024 13:43

Client ID: LCSD-240228

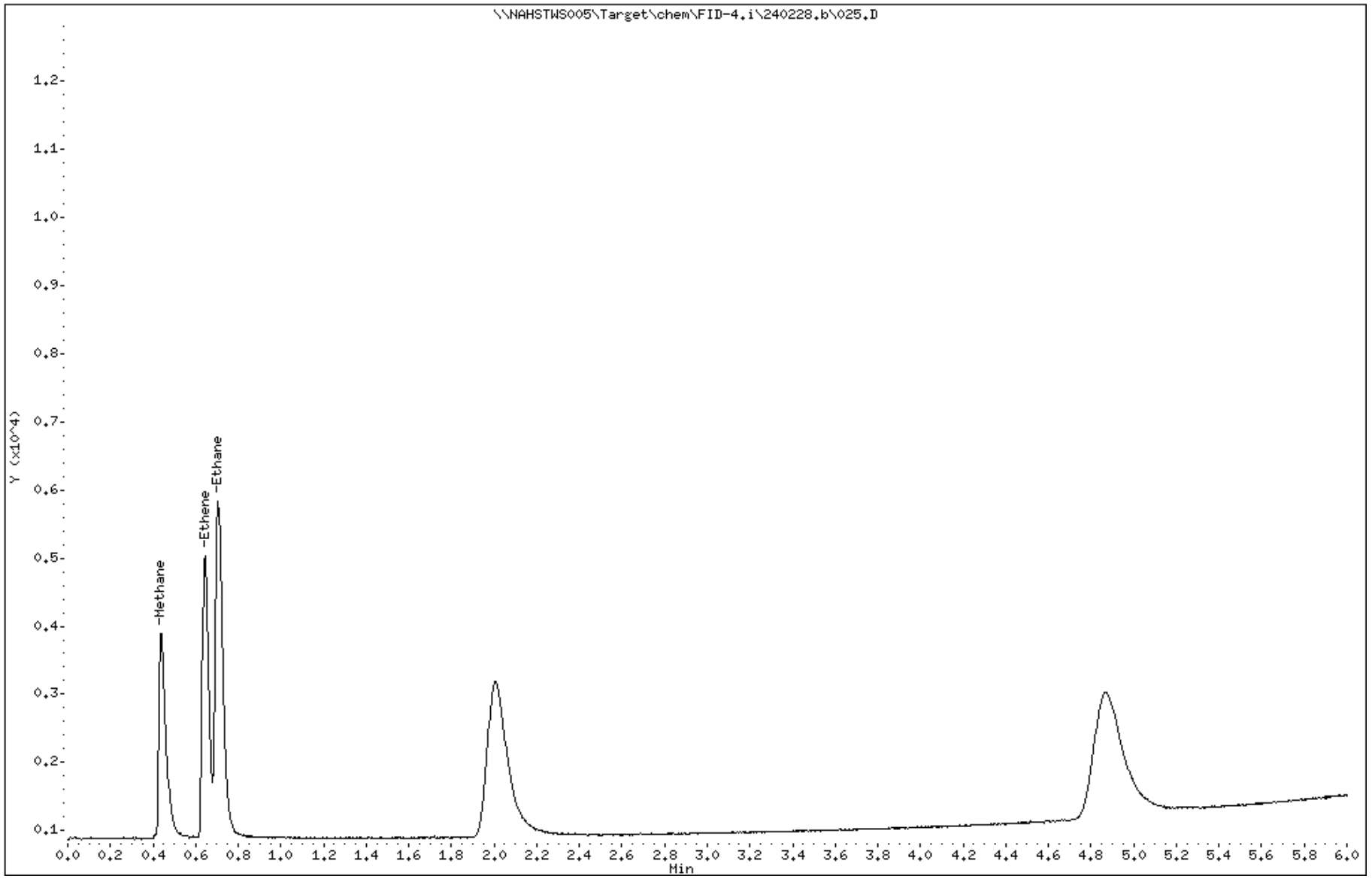
Instrument: FID-4.i

Sample Info: LCSD-240228;LCSD-240228;3;;LCSD

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



Data File : \\NAHSTWS005\Target\chem\FID-4.i\240228.b\025.D
Inj Date : 28-FEB-2024 13:43
InstruID : FID-4.i
LabSampID : LCSD-240228

NO MANUAL INTEGRATIONS

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\240228.b\029.D
Lab Smp Id: RSK-CCV Client Smp ID: RSK-CCV
Inj Date : 28-FEB-2024 14:20
Operator : JA Inst ID: FID-4.i
Smp Info : RSK-CCV;RSK-CCV;2;4
Misc Info :
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\240228.b\RSKNI3.m
Meth Date : 28-Feb-2024 14:28 elona.hasa Quant Type: ESTD
Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
Als bottle: 29 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7025

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	0.440	0.440	0.000	7665	9.64700	7.861
2 Ethene	0.646	0.646	0.000	8644	16.8500	14.756
3 Ethane	0.706	0.706	0.000	13275	18.0430	18.450

Data File: \\NAHSTWS005\Target\chem\FID-4.i\240228.b\029.D

Date : 28-FEB-2024 14:20

Client ID: RSK-CCV

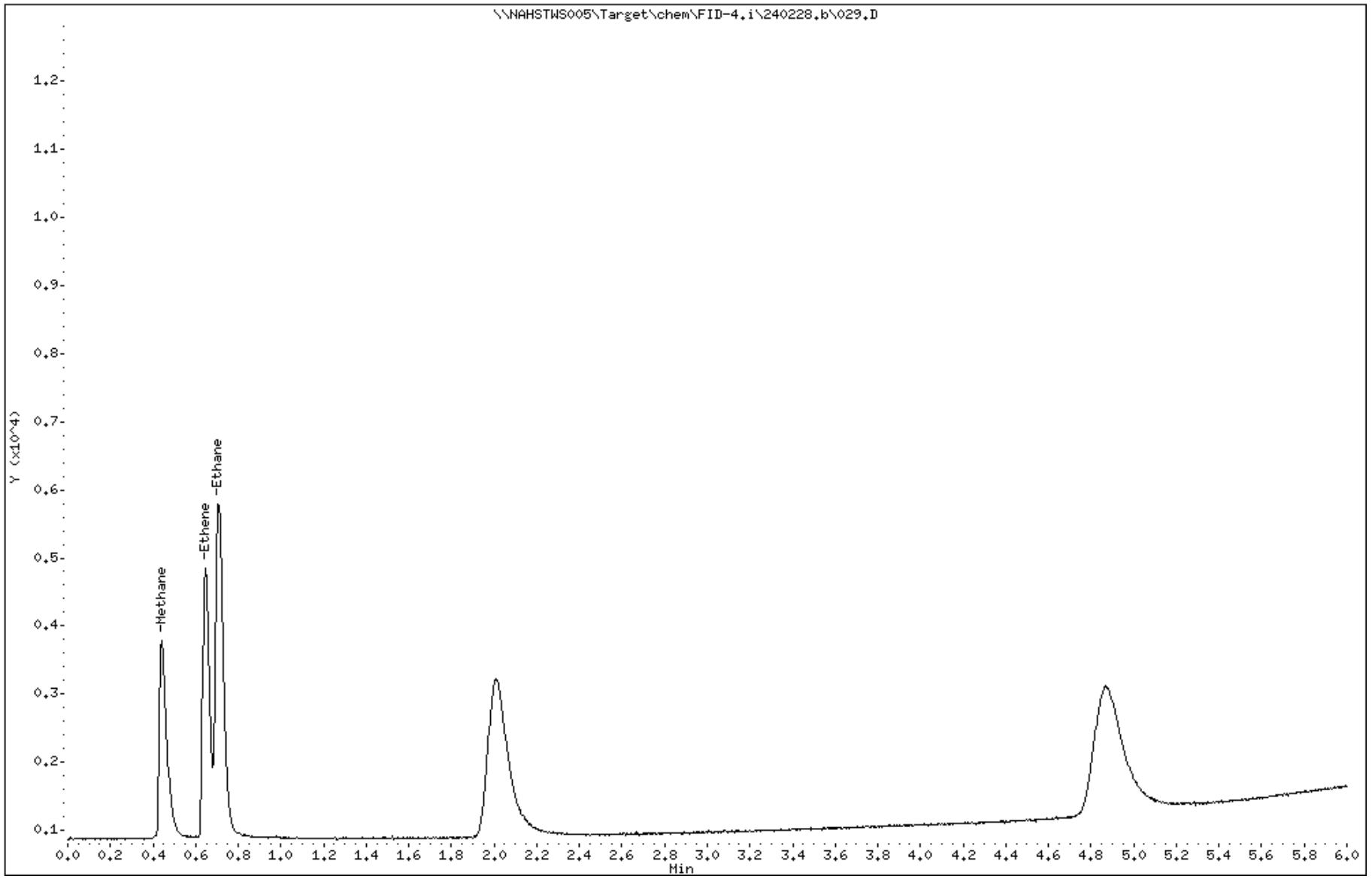
Instrument: FID-4.i

Sample Info: RSK-CCV;RSK-CCV;2;4

Operator: JA

Column phase: Rtx-PLOT

Column diameter: 0.53



Data File : \\NAHSTWS005\Target\chem\FID-4.i\240228.b\029.D
Inj Date : 28-FEB-2024 14:20
InstruID : FID-4.i
LabSampID : RSK-CCV

NO MANUAL INTEGRATIONS

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\240304.b\001.D
Lab Smp Id: RSK-CCV Client Smp ID: RSK-CCV
Inj Date : 04-MAR-2024 07:28
Operator : PL Inst ID: FID-4.i
Smp Info : RSK-CCV;RSK-CCV;2;4
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\240304.b\RSKNI3.m
Meth Date : 11-Mar-2024 13:29 Linh.Pham Quant Type: ESTD
Cal Date : 01-MAR-2024 11:04 Cal File: 008.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7022

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Methane	0.433	0.436	-0.003	10131	9.64700	9.004
2 Ethene	0.636	0.643	-0.007	11385	16.8500	15.741(M)
3 Ethane	0.696	0.703	-0.007	15909	18.0430	15.845(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\FID-4.i\240304.b\001.D

Date : 04-MAR-2024 07:28

Client ID: RSK-CCV

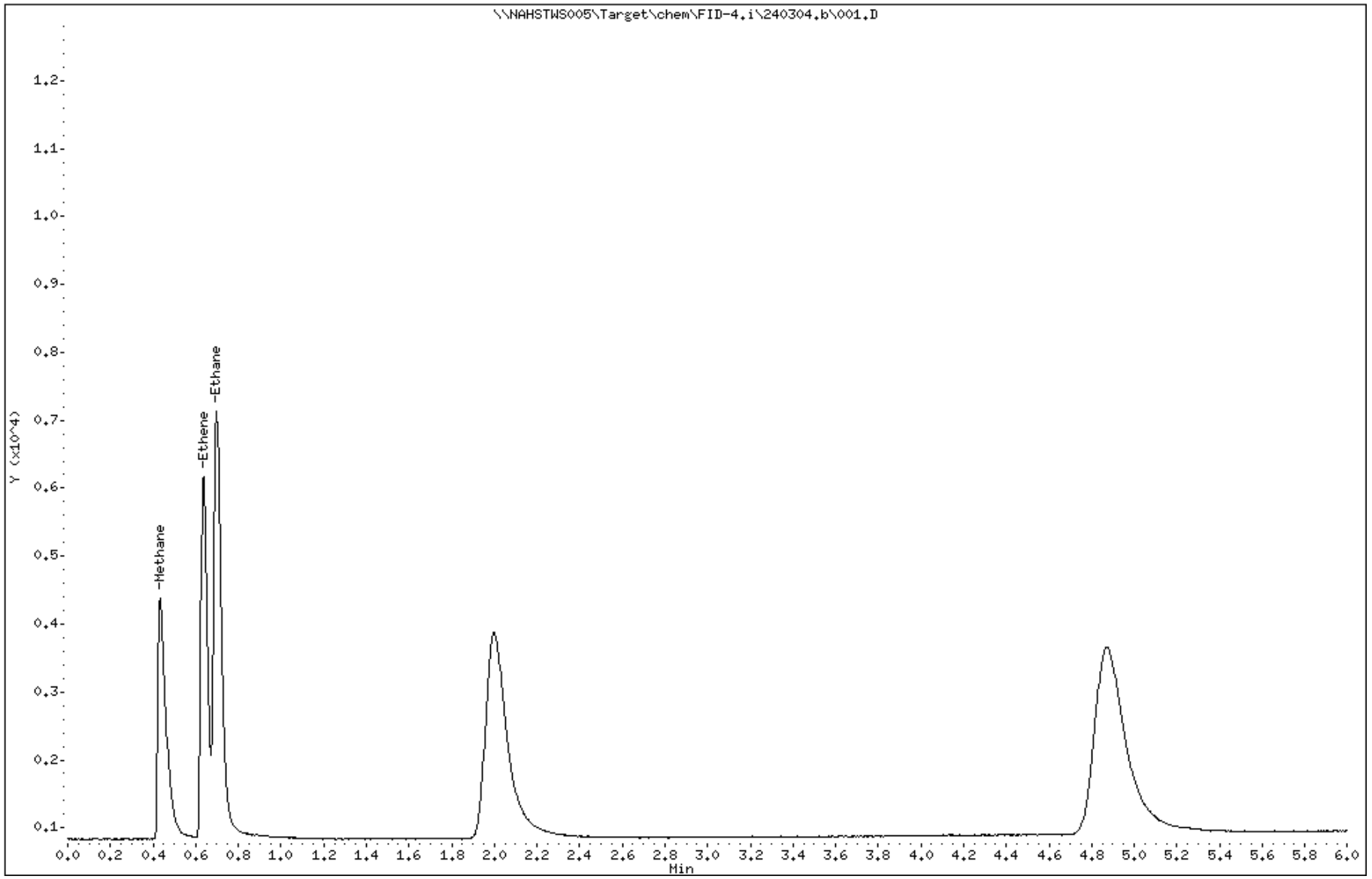
Instrument: FID-4.i

Sample Info: RSK-CCV;RSK-CCV;2;4

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



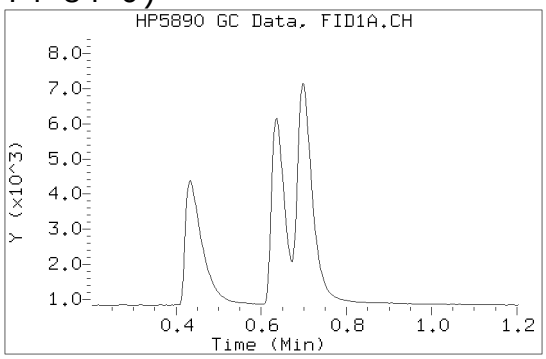
Data File : \\NAHSTWS005\Target\chem\FID-4.i\240304.b\001.D
Inj Date : 04-MAR-2024 07:28
InstruID : FID-4.i
LabSampID : RSK-CCV

Ethane (74-84-0)

Reason Code: MUP

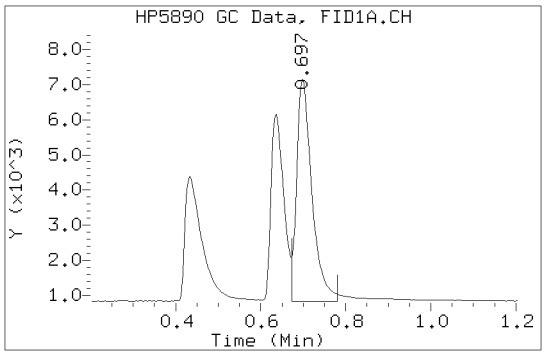
BEFORE

MASS
44
AREA
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HEIGHT
0
04-Mar-2024
07:35
ALSHS
Server



AFTER

MASS
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AREA
15909
HEIGHT
6315
11-Mar-2024
18:20
ALSHS
Ser

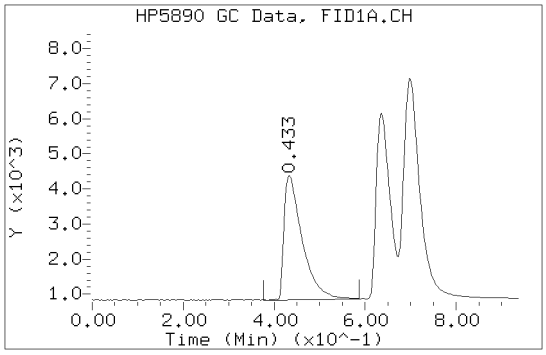


Ethene (74-85-1)

Reason Code: MIP

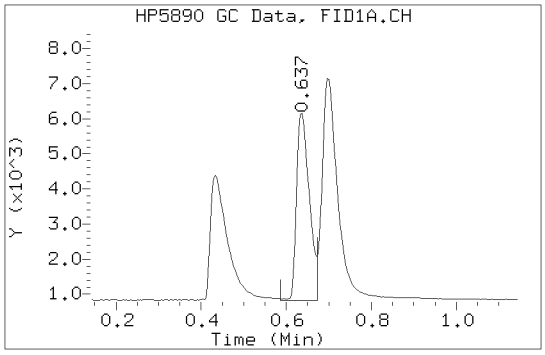
BEFORE

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AREA
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HEIGHT
0
04-Mar-2024
07:35
ALSHS
Server



AFTER

MASS
100
AREA
11385
HEIGHT
5340
11-Mar-2024
18:20
ALSHS
Ser



Data File: \\NAHSTWS005\Target\chem\FID-4.i\240304.b\005.D Page 1
Report Date: 04-Mar-2024 10:26

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\240304.b\005.D
Lab Smp Id: HS24021563-02 Client Smp ID: HS24021563-02
Inj Date : 04-MAR-2024 08:38
Operator : PL Inst ID: FID-4.i
Smp Info : HS24021563-02;HS24021563-02
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\240304.b\RSKNI3.m
Meth Date : 04-Mar-2024 09:53 elona.hasa Quant Type: ESTD
Cal Date : 01-MAR-2024 11:04 Cal File: 008.D
Als bottle: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7022

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	0.460	0.433	0.027	1203	1.06927	1.069
3 Ethane	0.736	0.700	0.036	588	0.58565	0.585(aM)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\FID-4.i\240304.b\005.D

Date : 04-MAR-2024 08:38

Client ID: HS24021563-02

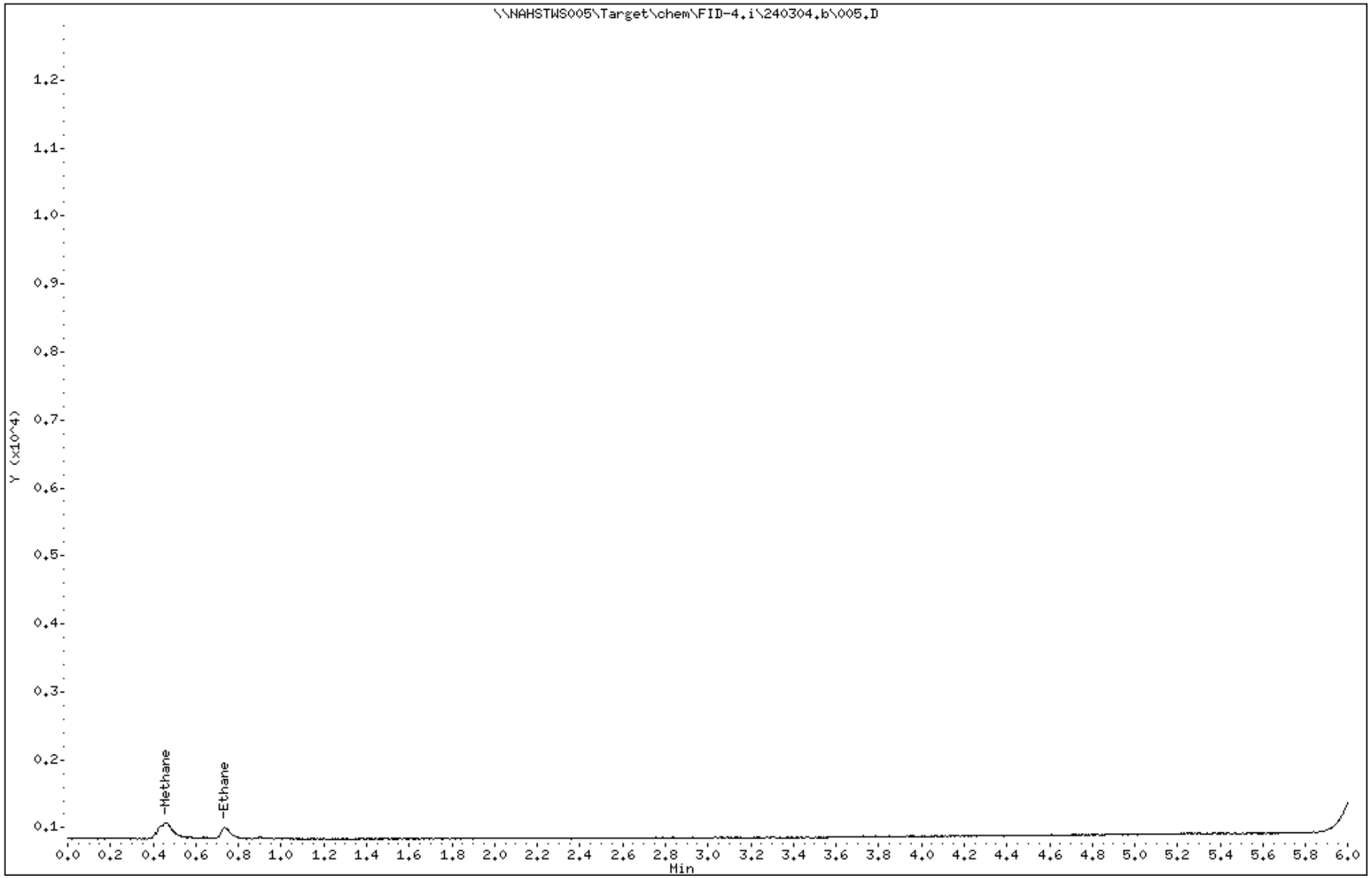
Instrument: FID-4.i

Sample Info: HS24021563-02;HS24021563-02

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



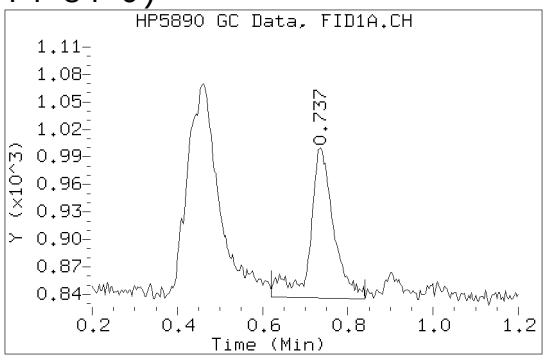
Data File : \\NAHSTWS005\Target\chem\FID-4.i\240304.b\005.D
Inj Date : 04-MAR-2024 08:38
InstruID : FID-4.i
LabSampID : HS24021563-02

Ethane (74-84-0)

Reason Code:

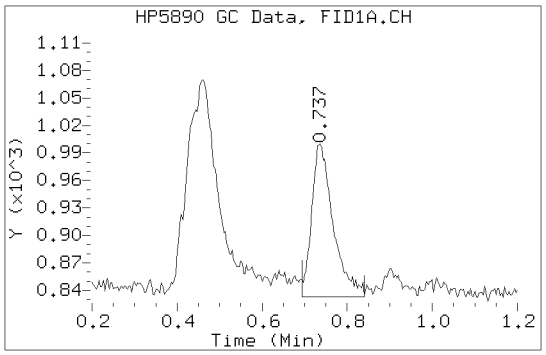
BEFORE

MASS
44
AREA
635
HEIGHT
165
04-Mar-2024
08:47
ALSHS
Server



AFTER

MASS
44
AREA
588
HEIGHT
167
04-Mar-2024
10:26
ALSHS
Server



Data File: \\NAHSTWS005\Target\chem\FID-4.i\240304.b\006.D Page 1
Report Date: 04-Mar-2024 10:22

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\240304.b\006.D
Lab Smp Id: HS24021563-02MS Client Smp ID: HS24021563-02MS
Inj Date : 04-MAR-2024 08:57
Operator : PL Inst ID: FID-4.i
Smp Info : HS24021563-02MS;HS24021563-02MS
Misc Info : ;1;0;1
Comment :
Method : \\nahstws005\Target\chem\FID-4.i\240304.b\RSKNI3.m
Meth Date : 04-Mar-2024 09:53 elona.hasa Quant Type: ESTD
Cal Date : 01-MAR-2024 11:04 Cal File: 008.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7022

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	0.440	0.433	0.007	9769	8.68305	8.683
2 Ethene	0.643	0.636	0.007	9664	13.3624	13.362
3 Ethane	0.706	0.696	0.010	15056	14.9959	14.995(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\FID-4.i\240304.b\006.D

Date : 04-MAR-2024 08:57

Client ID: HS24021563-02MS

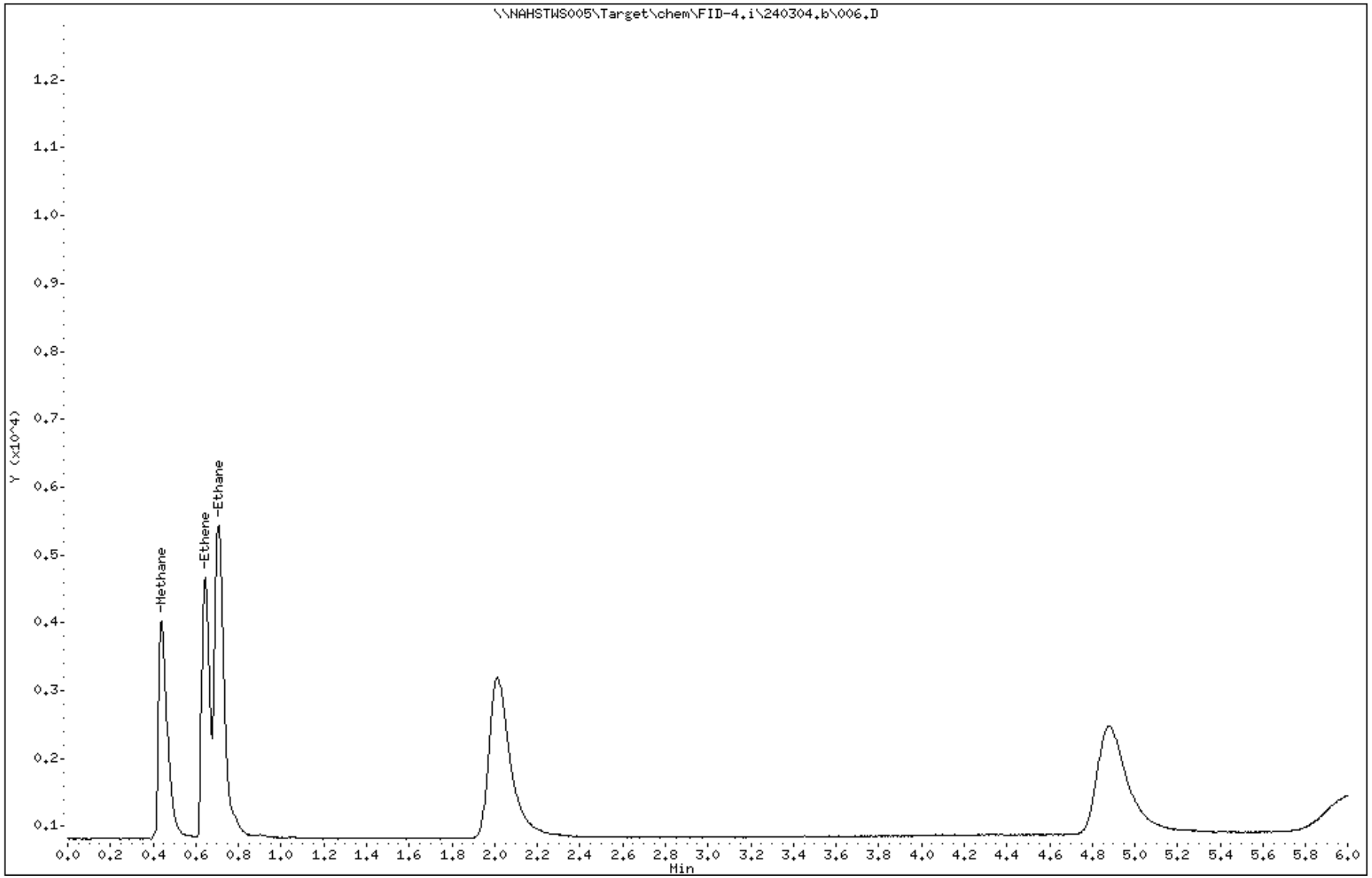
Instrument: FID-4.i

Sample Info: HS24021563-02MS;HS24021563-02MS

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



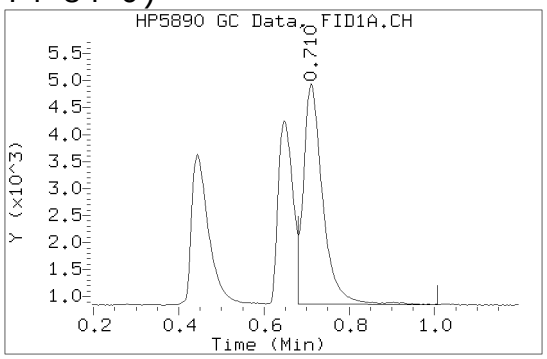
Data File : \\NAHSTWS005\Target\chem\FID-4.i\240304.b\006.D
Inj Date : 04-MAR-2024 08:57
InstruID : FID-4.i
LabSampID : HS24021563-02MS

Ethane (74-84-0)

Reason Code:

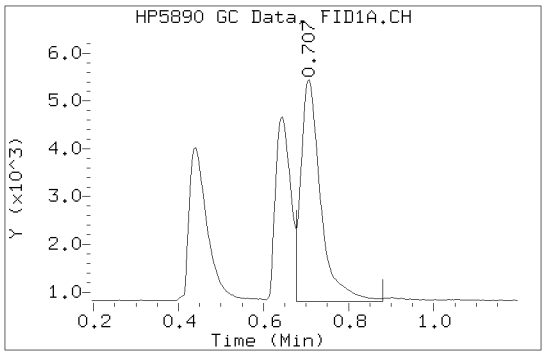
BEFORE

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04-Mar-2024
08:54
ALSHS
Server



AFTER

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AREA
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HEIGHT
4637
04-Mar-2024
10:22
ALSHS
Server



Data File: \\NAHSTWS005\Target\chem\FID-4.i\240304.b\007.D Page 1
Report Date: 04-Mar-2024 10:22

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\240304.b\007.D
Lab Smp Id: HS24021563-02MSD Client Smp ID: HS24021563-02MSD
Inj Date : 04-MAR-2024 09:08
Operator : PL Inst ID: FID-4.i
Smp Info : HS24021563-02MSD;HS24021563-02MSD
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\240304.b\RSKNI3.m
Meth Date : 04-Mar-2024 09:53 elona.hasa Quant Type: ESTD
Cal Date : 01-MAR-2024 11:04 Cal File: 008.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7022

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	0.436	0.433	0.003	9734	8.65194	8.651
2 Ethene	0.640	0.636	0.004	10158	14.0454	14.045
3 Ethane	0.703	0.696	0.007	15402	15.3405	15.340(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\FID-4.i\240304.b\007.D

Date : 04-MAR-2024 09:08

Client ID: HS24021563-02MSD

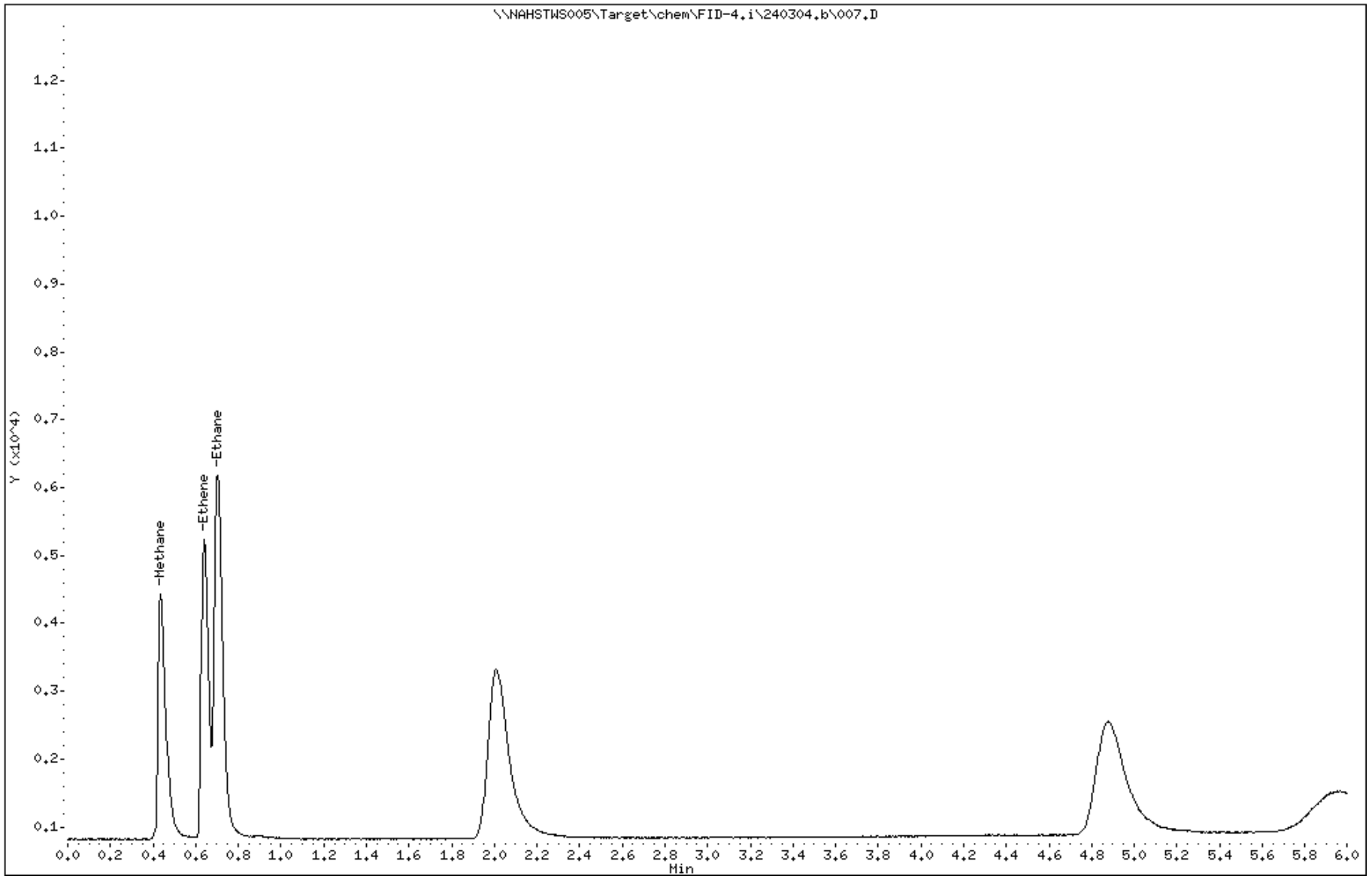
Instrument: FID-4.i

Sample Info: HS24021563-02MSD;HS24021563-02MSD

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



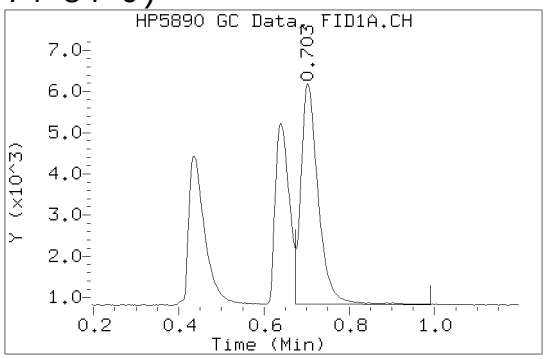
Data File : \\NAHSTWS005\Target\chem\FID-4.i\240304.b\007.D
Inj Date : 04-MAR-2024 09:08
InstruID : FID-4.i
LabSampID : HS24021563-02MSD

Ethane (74-84-0)

Reason Code:

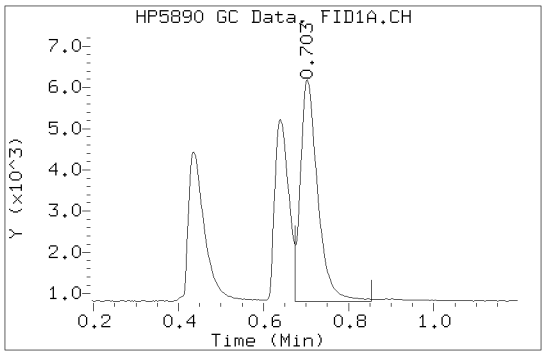
BEFORE

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04-Mar-2024
09:16
ALSHS
Server



AFTER

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AREA
15402
HEIGHT
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04-Mar-2024
10:22
ALSHS
Server



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\240304.b\011.D
Lab Smp Id: RSK-CCV Client Smp ID: RSK-CCV
Inj Date : 04-MAR-2024 09:46
Operator : PL Inst ID: FID-4.i
Smp Info : RSK-CCV;RSK-CCV;2;4
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\240304.b\RSKNI3.m
Meth Date : 11-Mar-2024 13:29 Linh.Pham Quant Type: ESTD
Cal Date : 01-MAR-2024 11:04 Cal File: 008.D
Als bottle: 11 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7025

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

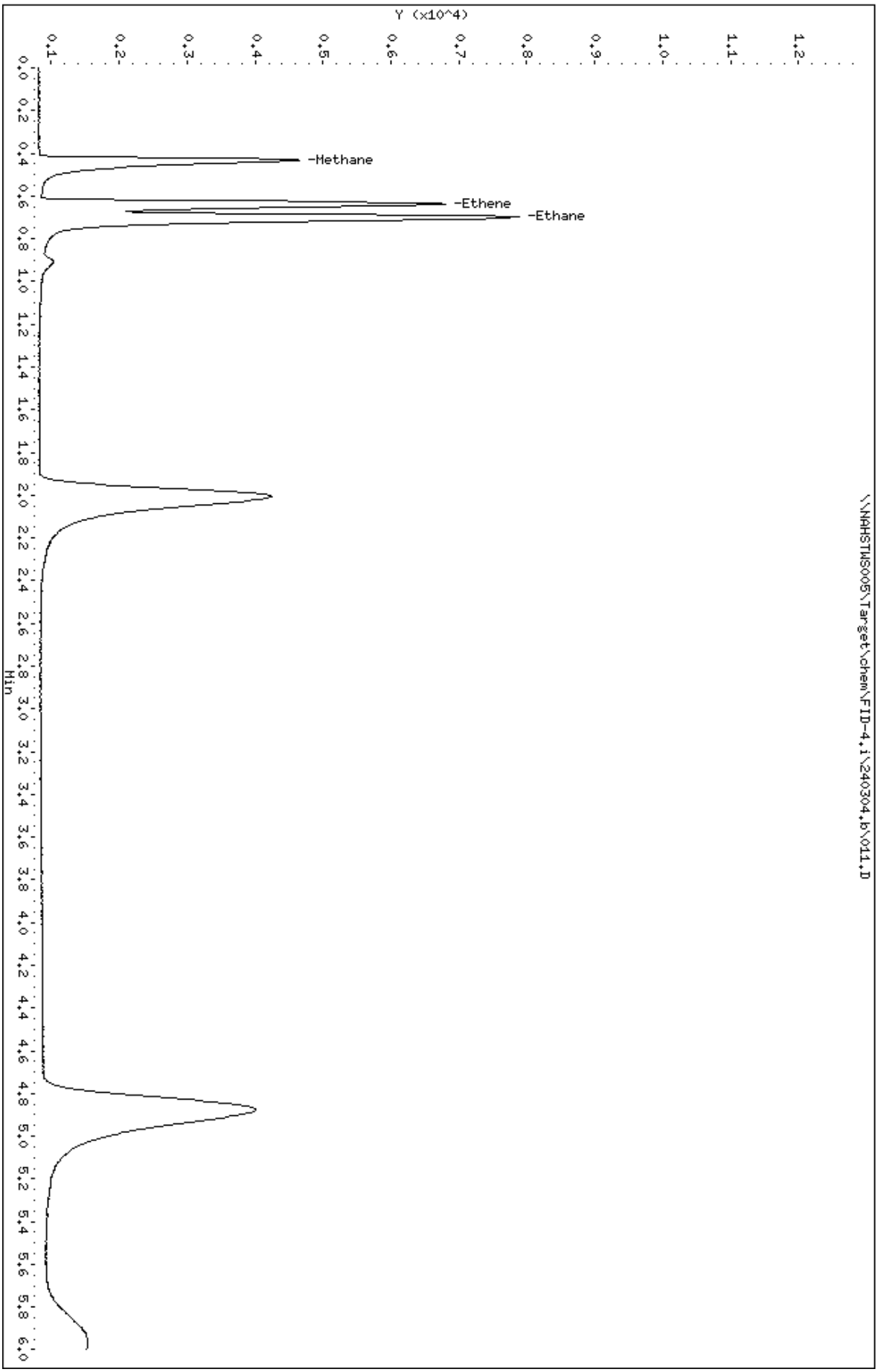
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Methane	0.433	0.436	-0.003	9988	9.64700	8.877
2 Ethene	0.636	0.643	-0.007	12490	16.8500	17.269
3 Ethane	0.700	0.703	-0.003	18323	18.0430	18.249(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\FID-4.i\240304.b\011.D
Date : 04-MAR-2024 09:46
Client ID: RSK-CCV
Sample Info: RSK-CCV;RSK-CCV;2;4
Column phase: Rtx-PLOT

Instrument: FID-4.i
Operator: PL
Column diameter: 0.53



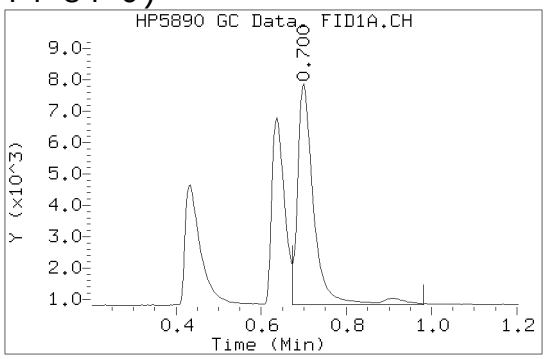
Data File : \\NAHSTWS005\Target\chem\FID-4.i\240304.b\011.D
Inj Date : 04-MAR-2024 09:46
InstruID : FID-4.i
LabSampID : RSK-CCV

Ethane (74-84-0)

Reason Code: MBA

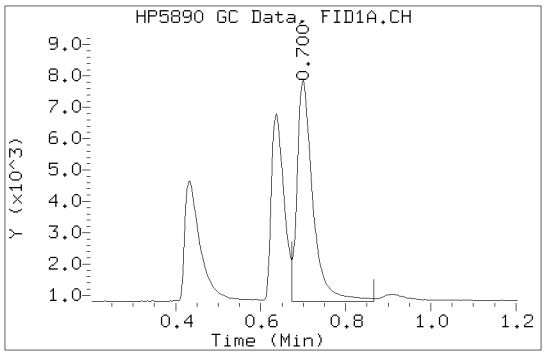
BEFORE

MASS
44
AREA
18658
HEIGHT
7047
04-Mar-2024
09:53
ALSHS
Server



AFTER

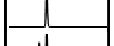
MASS
44
AREA
18323
HEIGHT
7070
11-Mar-2024
18:23
ALSHS
Ser



HS24021563 Wetchem 9056_W

ALS WO# HS24021563

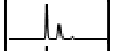
Sequence: 022724
Last Update Operator: alshs.nouser

CD	Name	Comment	Type	Position	Dilution	Level	Instrument Method
	STD1		Calibratio	RA1	1.00	1	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD2		Calibratio	RA2	1.00	2	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD3		Calibratio	RA3	1.00	3	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD4		Calibratio	RA4	1.00	4	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD5		Calibratio	RA5	1.00	5	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD6		Calibratio	RA6	1.00	6	Anions Program ISO37mM 150mm short 0.4 Constant current
	ICV		Unknown	RA7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	ICB		Unknown	RA8	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV		Unknown	R1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R6	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	MBLK-207936	REP	Unknown	R5	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	LCS-207936	REP	Unknown	R2	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021295-22	REP	Unknown	RA1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021295-22MS	REP	Unknown	RA2	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021295-22MSD	REP	Unknown	RA3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021295-23	REP	Unknown	RA4	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021295-24	REP	Unknown	RA5	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021295-25	REP	Unknown	RA6	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021295-26	REP	Unknown	RA7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021295-27	REP	Unknown	RA8	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV1		Unknown	R3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021295-28	REP	Unknown	RB1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021295-29	REP	Unknown	RB2	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021295-31	REP	Unknown	RB3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021295-32	REP	Unknown	RB4	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021295-33	REP	Unknown	RB5	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021295-34DF5	REP	Unknown	RB6	5.00		Anions Program ISO37mM 150mm short 0.4 Constant current

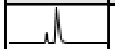
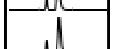
Sequence: 022724
Last Update Operator: alshs.nouser

CD	Name	Comment	Type	Position	Dilution	Level	Instrument Method
	HS24021357-01	REP	Unknown	RB7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021357-02	REP	Unknown	RB8	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021357-03	REP	Unknown	RC1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV		Unknown	R1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R4	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021357-04	REP	Unknown	RC2	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021357-05	REP	Unknown	RC3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021357-06	REP	Unknown	RC4	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021357-07	REP	Unknown	RC5	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021357-08	REP	Unknown	RC6	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	MBLK	300-W-SH	Unknown	R5	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	LCS		Unknown	R2	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021512-01		Unknown	RC7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021518-01DF20		Unknown	RC8	20.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021518-01DF400		Unknown	RD1	400.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV1		Unknown	R3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021498-01DF250		Unknown	RD2	250.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021498-01MSDF25		Unknown	RD3	250.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021498-01MSDDF		Unknown	RD4	250.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021498-02DF500		Unknown	RD5	500.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021498-03DF500		Unknown	RD6	500.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021498-04DF250		Unknown	RD7	250.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021498-05DF250		Unknown	RD8	250.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021498-06DF500		Unknown	RE1	500.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021498-07DF250		Unknown	RE2	250.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021498-09DF250		Unknown	RE3	250.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV		Unknown	R1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current

Sequence: 022724
Last Update Operator: alshs.nouser

CD	Name	Comment	Type	Position	Dilution	Level	Instrument Method
	CCB		Unknown	R6	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021498-08DF250		Unknown	RE4	250.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021498-08MSDF25		Unknown	RE5	250.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021498-08MSDDF		Unknown	RE5	250.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021498-12DF250		Unknown	RE7	250.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021003-01DF20		Unknown	GA1	20.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021003-01DF400		Unknown	GA2	400.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021499-01		Unknown	GA3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021499-02DF10		Unknown	GA4	10.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV1		Unknown	R3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	MBLK	9056-W-SH	Unknown	R5	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	LCS		Unknown	R2	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021563-02		Unknown	GA5	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021563-02MS		Unknown	GA6	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021563-02MSD	9056-W-SH	Unknown	GA7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021563-05	9056-W-SH	Unknown	GA8	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021563-05DF10	9056-W-SH	Unknown	GB1	10.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021563-06DF5	9056-W-SH	Unknown	GB2	5.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021563-06DF100	9056-W-SH	Unknown	GB3	100.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021563-02DF5	9056-W-SH	Unknown	GA5	5.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV		Unknown	R1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R6	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021562-07	9056-W-SH	Unknown	GB4	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021562-07DF10	9056-W-SH	Unknown	GB5	10.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021562-08	9056-W-SH	Unknown	GB6	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021562-08DF10	9056-W-SH	Unknown	GB7	10.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021562-09	9056-W-SH	Unknown	GB8	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current

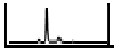
Sequence: 022724
Last Update Operator: alshs.nouser

CD	Name	Comment	Type	Position	Dilution	Level	Instrument Method
	HS24021562-09DF5	9056-W-SH	Unknown	GC1	5.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021562-10	9056-W-SH	Unknown	GC2	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021562-10DF10	9056-W-SH	Unknown	GC3	10.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021562-11	9056-W-SH	Unknown	GC4	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021562-11DF5	9056-W-SH	Unknown	GC5	5.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV1		Unknown	R3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021603-04		Unknown	RA1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021562-12	9056-W-SH	Unknown	GC6	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021562-12DF5	9056-W-SH	Unknown	GC7	5.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021562-13	9056-W-SH	Unknown	GC8	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021562-13DF5	9056-W-SH	Unknown	GD1	5.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021562-14	9056-W-SH	Unknown	GD2	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021562-14DF20	9056-W-SH	Unknown	GD3	20.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021592-01DF2	300-W-SH	Unknown	GD4	2.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021592-02DF2	300-W-SH	Unknown	GD5	2.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021592-03DF2	300-W-SH	Unknown	GD6	2.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV		Unknown	R1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R6	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021569-09	9056-W-SH	Unknown	GD7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021569-09DF5	9056-W-SH	Unknown	GD8	5.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021569-10	9056-W-SH	Unknown	GE1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021569-10DF5	9056-W-SH	Unknown	GE2	5.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021569-11	9056-W-SH	Unknown	GE3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021569-11DF5	9056-W-SH	Unknown	GE4	5.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021569-12	9056-W-SH	Unknown	GE5	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021569-12DF5	9056-W-SH	Unknown	GE6	5.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021569-13	9056-W-SH	Unknown	GE7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current

Sequence: 022724
Last Update Operator: alshs.nouser

	HS24021569-13DF10	9056-W-SH	Unknowr	GE8	10.00		Anions Program ISO37mM 150mm short 0.4 Constant current
CD	Name	Comment	Type	Position	Dilution	Level	Instrument Method
	CCV1		Unknowr	R3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknowr	R7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021593-02	9056-W-SH	Unknowr	BA1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021593-02DF5	9056-W-SH	Unknowr	BA2	5.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021593-03	9056-W-SH	Unknowr	BA3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021593-03DF5	9056-W-SH	Unknowr	BA4	5.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021593-04	9056-W-SH	Unknowr	BA5	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021593-04MS	9056-W-SH	Unknowr	BA6	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021593-04MSD	9056-W-SH	Unknowr	BA7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021593-04DF5	9056-W-SH	Unknowr	BA8	5.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021593-05	9056-W-SH	Unknowr	BB1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021593-05DF5	9056-W-SH	Unknowr	BB2	5.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV		Unknowr	R1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknowr	R4	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	MBLK-207958		Unknowr	R5	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	LCS-207958		Unknowr	R2	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021357-09		Unknowr	BB3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021357-09MS		Unknowr	BB4	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021357-09MSD		Unknowr	BB4	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021357-10		Unknowr	BB6	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021357-11		Unknowr	BB7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021357-12		Unknowr	BB8	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021357-13		Unknowr	BC1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021357-14		Unknowr	BC2	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV1		Unknowr	R3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknowr	R7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021357-15		Unknowr	BC3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current

Sequence: 022724
Last Update Operator: alshs.nouser

CD	Name	Comment	Type	Position	Dilution	Level	Instrument Method
	HS24021357-16		Unknown	BC4	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021357-17		Unknown	BC5	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021357-18		Unknown	BC6	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021357-19		Unknown	BC7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021420-01		Unknown	BC8	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021420-02		Unknown	BD1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021420-03		Unknown	BD2	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021420-04		Unknown	BD3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021420-05		Unknown	BD4	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV		Unknown	R1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R6	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021420-06		Unknown	BD5	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021420-07		Unknown	BD6	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021420-08		Unknown	BD7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021420-09		Unknown	BD8	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	MBLK-207966		Unknown	R5	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	LCS-207966		Unknown	R2	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021420-10		Unknown	BE1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021420-10MS		Unknown	BE2	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021420-10MSD		Unknown	BE3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021420-11		Unknown	BE4	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV1		Unknown	R3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021420-12		Unknown	BE5	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021420-13		Unknown	BE6	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021420-14		Unknown	BE7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021420-15		Unknown	BE8	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021420-16		Unknown	RA1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current

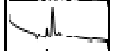
Sequence: 022724
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	HS24021420-17		Unknowr	RA2	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
CD	**Name**	**Comment**	**Type**	**Position**	**Dilution**	**Level**	**Instrument Method**
	HS24021420-18		Unknowr	RA3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021420-19		Unknowr	RA4	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021420-20		Unknowr	RA5	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV		Unknowr	R1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknowr	R6	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021484-01		Unknowr	RA6	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021484-02		Unknowr	RA7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021484-03		Unknowr	RA8	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021484-04		Unknowr	RB1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021484-05		Unknowr	RB2	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021484-06		Unknowr	RB3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021484-07		Unknowr	RB4	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021484-08		Unknowr	RB5	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24021484-09		Unknowr	RB6	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV1		Unknowr	R3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknowr	R7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current

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Processing Method	CD	Name	me	Status	Inject Time
Anions Processing Method ISO		STD1	5.0	Finished	2/4/2024 11:05:14 AM -06:00
Anions Processing Method ISO		STD2	5.0	Finished	2/4/2024 11:11:07 AM -06:00
Anions Processing Method ISO		STD3	5.0	Finished	2/4/2024 11:17:01 AM -06:00
Anions Processing Method ISO		STD4	5.0	Finished	2/4/2024 11:22:55 AM -06:00
Anions Processing Method ISO		STD5	5.0	Finished	2/4/2024 11:28:49 AM -06:00
Anions Processing Method ISO		STD6	5.0	Finished	2/4/2024 11:34:42 AM -06:00
Anions Processing Method ISO		ICV	5.0	Finished	2/4/2024 11:46:30 AM -06:00
Anions Processing Method ISO		ICB	5.0	Finished	2/4/2024 12:04:12 PM -06:00
Anions Processing Method ISO		CCV	5.0	Finished	2/27/2024 7:03:11 AM -06:00
Anions Processing Method ISO		CCB	5.0	Finished	2/27/2024 7:09:06 AM -06:00
Anions Processing Method ISO		MBLK-207936	5.0	Finished	2/27/2024 7:20:57 AM -06:00
Anions Processing Method ISO		LCS-207936	5.0	Finished	2/27/2024 7:26:53 AM -06:00
Anions Processing Method ISO		HS24021295-22	5.0	Finished	2/27/2024 7:32:49 AM -06:00
Anions Processing Method ISO		HS24021295-22MS	5.0	Finished	2/27/2024 7:38:44 AM -06:00
Anions Processing Method ISO		HS24021295-22MSD	5.0	Finished	2/27/2024 7:44:40 AM -06:00
Anions Processing Method ISO		HS24021295-23	5.0	Finished	2/27/2024 7:50:35 AM -06:00
Anions Processing Method ISO		HS24021295-24	5.0	Finished	2/27/2024 7:56:31 AM -06:00
Anions Processing Method ISO		HS24021295-25	5.0	Finished	2/27/2024 8:02:27 AM -06:00
Anions Processing Method ISO		HS24021295-26	5.0	Finished	2/27/2024 8:08:22 AM -06:00
Anions Processing Method ISO		HS24021295-27	5.0	Finished	2/27/2024 8:14:18 AM -06:00
Anions Processing Method ISO		CCV1	5.0	Finished	2/27/2024 8:20:13 AM -06:00
Anions Processing Method ISO		CCB	5.0	Finished	2/27/2024 8:26:09 AM -06:00
Anions Processing Method ISO		HS24021295-28	5.0	Finished	2/27/2024 8:38:00 AM -06:00
Anions Processing Method ISO		HS24021295-29	5.0	Finished	2/27/2024 8:43:56 AM -06:00
Anions Processing Method ISO		HS24021295-31	5.0	Finished	2/27/2024 8:49:51 AM -06:00
Anions Processing Method ISO		HS24021295-32	5.0	Finished	2/27/2024 8:55:47 AM -06:00
Anions Processing Method ISO		HS24021295-33	5.0	Finished	2/27/2024 9:01:42 AM -06:00
Anions Processing Method ISO		HS24021295-34DF5	5.0	Finished	2/27/2024 9:07:38 AM -06:00

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Processing Method	CD	Name	me	Status	Inject Time
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Anions Processing Method ISO		HS24021357-02	5.0	Finished	2/27/2024 9:19:29 AM -06:00
Anions Processing Method ISO		HS24021357-03	5.0	Finished	2/27/2024 9:25:25 AM -06:00
Anions Processing Method ISO		CCV	5.0	Finished	2/27/2024 9:37:16 AM -06:00
Anions Processing Method ISO		CCB	5.0	Finished	2/27/2024 9:43:11 AM -06:00
Anions Processing Method ISO		HS24021357-04	5.0	Finished	2/27/2024 9:55:02 AM -06:00
Anions Processing Method ISO		HS24021357-05	5.0	Finished	2/27/2024 10:00:58 AM -06:00
Anions Processing Method ISO		HS24021357-06	5.0	Finished	2/27/2024 10:06:53 AM -06:00
Anions Processing Method ISO		HS24021357-07	5.0	Finished	2/27/2024 10:12:49 AM -06:00
Anions Processing Method ISO		HS24021357-08	5.0	Finished	2/27/2024 10:18:44 AM -06:00
Anions Processing Method ISO		MBLK	5.0	Finished	2/27/2024 10:36:31 AM -06:00
Anions Processing Method ISO		LCS	5.0	Finished	2/27/2024 10:42:26 AM -06:00
Anions Processing Method ISO		HS24021512-01	5.0	Finished	2/27/2024 10:48:22 AM -06:00
Anions Processing Method ISO		HS24021518-01DF20	5.0	Finished	2/27/2024 10:54:17 AM -06:00
Anions Processing Method ISO		HS24021518-01DF400	5.0	Finished	2/27/2024 11:00:13 AM -06:00
Anions Processing Method ISO		CCV1	5.0	Finished	2/27/2024 11:06:08 AM -06:00
Anions Processing Method ISO		CCB	5.0	Finished	2/27/2024 11:17:59 AM -06:00
Anions Processing Method ISO		HS24021498-01DF250	5.0	Finished	2/27/2024 11:29:50 AM -06:00
Anions Processing Method ISO		HS24021498-01MSDF25	5.0	Finished	2/27/2024 11:35:45 AM -06:00
Anions Processing Method ISO		HS24021498-01MSDDF	5.0	Finished	2/27/2024 11:41:40 AM -06:00
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Anions Processing Method ISO		HS24021498-03DF500	5.0	Finished	2/27/2024 11:53:31 AM -06:00
Anions Processing Method ISO		HS24021498-04DF250	5.0	Finished	2/27/2024 11:59:27 AM -06:00
Anions Processing Method ISO		HS24021498-05DF250	5.0	Finished	2/27/2024 12:05:22 PM -06:00
Anions Processing Method ISO		HS24021498-06DF500	5.0	Finished	2/27/2024 12:11:18 PM -06:00
Anions Processing Method ISO		HS24021498-07DF250	5.0	Finished	2/27/2024 12:17:13 PM -06:00
Anions Processing Method ISO		HS24021498-09DF250	5.0	Finished	2/27/2024 12:23:08 PM -06:00
Anions Processing Method ISO		CCV	5.0	Finished	2/27/2024 12:34:59 PM -06:00

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Anions Processing Method ISO		CCB	5.0	Finished	2/27/2024 12:40:55 PM -06:00
Processing Method	**CD**	**Name**	**me**	**Status**	**Inject Time**
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Anions Processing Method ISO		HS24021498-08MSDDF	5.0	Finished	2/27/2024 1:04:37 PM -06:00
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Anions Processing Method ISO		HS24021003-01DF400	5.0	Finished	2/27/2024 1:28:19 PM -06:00
Anions Processing Method ISO		HS24021499-01	5.0	Finished	2/27/2024 1:34:15 PM -06:00
Anions Processing Method ISO		HS24021499-02DF10	5.0	Finished	2/27/2024 1:40:10 PM -06:00
Anions Processing Method ISO		CCV1	5.0	Finished	2/27/2024 1:52:01 PM -06:00
Anions Processing Method ISO		CCB	5.0	Finished	2/27/2024 1:57:57 PM -06:00
Anions Processing Method ISO		MBLK	5.0	Finished	2/27/2024 2:09:48 PM -06:00
Anions Processing Method ISO		LCS	5.0	Finished	2/27/2024 2:15:43 PM -06:00
Anions Processing Method ISO		HS24021563-02	5.0	Finished	2/27/2024 2:21:38 PM -06:00
Anions Processing Method ISO		HS24021563-02MS	5.0	Finished	2/27/2024 2:27:34 PM -06:00
Anions Processing Method ISO		HS24021563-02MSD	5.0	Finished	2/27/2024 2:33:29 PM -06:00
Anions Processing Method ISO		HS24021563-05	5.0	Finished	2/27/2024 2:39:25 PM -06:00
Anions Processing Method ISO		HS24021563-05DF10	5.0	Finished	2/27/2024 2:45:20 PM -06:00
Anions Processing Method ISO		HS24021563-06DF5	5.0	Finished	2/27/2024 2:51:15 PM -06:00
Anions Processing Method ISO		HS24021563-06DF100	5.0	Finished	2/27/2024 2:57:11 PM -06:00
Anions Processing Method ISO		HS24021563-02DF5	5.0	Finished	2/27/2024 3:03:06 PM -06:00
Anions Processing Method ISO		CCV	5.0	Finished	2/27/2024 3:14:57 PM -06:00
Anions Processing Method ISO		CCB	5.0	Finished	2/27/2024 3:32:43 PM -06:00
Anions Processing Method ISO		HS24021562-07	5.0	Finished	2/27/2024 3:38:38 PM -06:00
Anions Processing Method ISO		HS24021562-07DF10	5.0	Finished	2/27/2024 3:44:33 PM -06:00
Anions Processing Method ISO		HS24021562-08	5.0	Finished	2/27/2024 3:50:29 PM -06:00
Anions Processing Method ISO		HS24021562-08DF10	5.0	Finished	2/27/2024 3:56:24 PM -06:00
Anions Processing Method ISO		HS24021562-09	5.0	Finished	2/27/2024 4:02:19 PM -06:00

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Processing Method	CD	Name	me	Status	Inject Time
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Anions Processing Method ISO		HS24021562-10	5.0	Finished	2/27/2024 4:14:10 PM -06:00
Anions Processing Method ISO		HS24021562-10DF10	5.0	Finished	2/27/2024 4:20:05 PM -06:00
Anions Processing Method ISO		HS24021562-11	5.0	Finished	2/27/2024 4:26:00 PM -06:00
Anions Processing Method ISO		HS24021562-11DF5	5.0	Finished	2/27/2024 4:31:56 PM -06:00
Anions Processing Method ISO		CCV1	5.0	Finished	2/27/2024 4:43:46 PM -06:00
Anions Processing Method ISO		CCB	5.0	Finished	2/27/2024 4:49:42 PM -06:00
Anions Processing Method ISO		HS24021603-04	5.0	Finished	2/27/2024 5:07:28 PM -06:00
Anions Processing Method ISO		HS24021562-12	5.0	Finished	2/27/2024 5:13:23 PM -06:00
Anions Processing Method ISO		HS24021562-12DF5	5.0	Finished	2/27/2024 5:19:18 PM -06:00
Anions Processing Method ISO		HS24021562-13	5.0	Finished	2/27/2024 5:25:13 PM -06:00
Anions Processing Method ISO		HS24021562-13DF5	5.0	Finished	2/27/2024 5:31:09 PM -06:00
Anions Processing Method ISO		HS24021562-14	5.0	Finished	2/27/2024 5:37:04 PM -06:00
Anions Processing Method ISO		HS24021562-14DF20	5.0	Finished	2/27/2024 5:42:59 PM -06:00
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Anions Processing Method ISO		HS24021592-02DF2	5.0	Finished	2/27/2024 5:54:50 PM -06:00
Anions Processing Method ISO		HS24021592-03DF2	5.0	Finished	2/27/2024 6:00:45 PM -06:00
Anions Processing Method ISO		CCV	5.0	Finished	2/27/2024 6:18:31 PM -06:00
Anions Processing Method ISO		CCB	5.0	Finished	2/27/2024 6:30:21 PM -06:00
Anions Processing Method ISO		HS24021569-09	5.0	Finished	2/27/2024 6:42:12 PM -06:00
Anions Processing Method ISO		HS24021569-09DF5	5.0	Finished	2/27/2024 6:48:07 PM -06:00
Anions Processing Method ISO		HS24021569-10	5.0	Finished	2/27/2024 6:54:03 PM -06:00
Anions Processing Method ISO		HS24021569-10DF5	5.0	Finished	2/27/2024 6:59:58 PM -06:00
Anions Processing Method ISO		HS24021569-11	5.0	Finished	2/27/2024 7:05:53 PM -06:00
Anions Processing Method ISO		HS24021569-11DF5	5.0	Finished	2/27/2024 7:11:48 PM -06:00
Anions Processing Method ISO		HS24021569-12	5.0	Finished	2/27/2024 7:17:44 PM -06:00
Anions Processing Method ISO		HS24021569-12DF5	5.0	Finished	2/27/2024 7:23:39 PM -06:00
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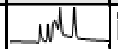
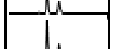
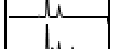
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Processing Method	**CD**	**Name**	**me**	**Status**	**Inject Time**
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Anions Processing Method ISO		CCB	5.0	Finished	2/27/2024 7:53:15 PM -06:00
Anions Processing Method ISO		HS24021593-02	5.0	Finished	2/27/2024 8:05:06 PM -06:00
Anions Processing Method ISO		HS24021593-02DF5	5.0	Finished	2/27/2024 8:11:01 PM -06:00
Anions Processing Method ISO		HS24021593-03	5.0	Finished	2/27/2024 8:16:56 PM -06:00
Anions Processing Method ISO		HS24021593-03DF5	5.0	Finished	2/27/2024 8:22:52 PM -06:00
Anions Processing Method ISO		HS24021593-04	5.0	Finished	2/27/2024 8:28:47 PM -06:00
Anions Processing Method ISO		HS24021593-04MS	5.0	Finished	2/27/2024 8:34:42 PM -06:00
Anions Processing Method ISO		HS24021593-04MSD	5.0	Finished	2/27/2024 8:40:37 PM -06:00
Anions Processing Method ISO		HS24021593-04DF5	5.0	Finished	2/27/2024 8:46:33 PM -06:00
Anions Processing Method ISO		HS24021593-05	5.0	Finished	2/27/2024 8:52:28 PM -06:00
Anions Processing Method ISO		HS24021593-05DF5	5.0	Finished	2/27/2024 8:58:23 PM -06:00
Anions Processing Method ISO		CCV	5.0	Finished	2/27/2024 9:10:14 PM -06:00
Anions Processing Method ISO		CCB	5.0	Finished	2/27/2024 9:22:04 PM -06:00
Anions Processing Method ISO		MBLK-207958	5.0	Finished	2/27/2024 9:33:55 PM -06:00
Anions Processing Method ISO		LCS-207958	5.0	Finished	2/27/2024 9:39:50 PM -06:00
Anions Processing Method ISO		HS24021357-09	5.0	Finished	2/27/2024 9:45:45 PM -06:00
Anions Processing Method ISO		HS24021357-09MS	5.0	Finished	2/27/2024 9:51:40 PM -06:00
Anions Processing Method ISO		HS24021357-09MSD	5.0	Finished	2/27/2024 9:57:36 PM -06:00
Anions Processing Method ISO		HS24021357-10	5.0	Finished	2/27/2024 10:03:31 PM -06:00
Anions Processing Method ISO		HS24021357-11	5.0	Finished	2/27/2024 10:09:26 PM -06:00
Anions Processing Method ISO		HS24021357-12	5.0	Finished	2/27/2024 10:15:21 PM -06:00
Anions Processing Method ISO		HS24021357-13	5.0	Finished	2/27/2024 10:21:15 PM -06:00
Anions Processing Method ISO		HS24021357-14	5.0	Finished	2/27/2024 10:27:10 PM -06:00
Anions Processing Method ISO		CCV1	5.0	Finished	2/27/2024 10:39:01 PM -06:00
Anions Processing Method ISO		CCB	5.0	Finished	2/27/2024 10:44:56 PM -06:00
Anions Processing Method ISO		HS24021357-15	5.0	Finished	2/27/2024 10:56:46 PM -06:00

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Anions Processing Method ISO		HS24021357-16	5.0	Finished	2/27/2024 11:02:41 PM -06:00
Processing Method	**CD**	**Name**	**me**	**Status**	**Inject Time**
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Anions Processing Method ISO		HS24021357-18	5.0	Finished	2/27/2024 11:14:31 PM -06:00
Anions Processing Method ISO		HS24021357-19	5.0	Finished	2/27/2024 11:20:26 PM -06:00
Anions Processing Method ISO		HS24021420-01	5.0	Finished	2/27/2024 11:26:21 PM -06:00
Anions Processing Method ISO		HS24021420-02	5.0	Finished	2/27/2024 11:32:17 PM -06:00
Anions Processing Method ISO		HS24021420-03	5.0	Finished	2/27/2024 11:38:12 PM -06:00
Anions Processing Method ISO		HS24021420-04	5.0	Finished	2/27/2024 11:44:07 PM -06:00
Anions Processing Method ISO		HS24021420-05	5.0	Finished	2/27/2024 11:50:02 PM -06:00
Anions Processing Method ISO		CCV	5.0	Finished	2/28/2024 12:07:47 AM -06:00
Anions Processing Method ISO		CCB	5.0	Finished	2/28/2024 12:13:42 AM -06:00
Anions Processing Method ISO		HS24021420-06	5.0	Finished	2/28/2024 12:25:32 AM -06:00
Anions Processing Method ISO		HS24021420-07	5.0	Finished	2/28/2024 12:31:27 AM -06:00
Anions Processing Method ISO		HS24021420-08	5.0	Finished	2/28/2024 12:37:22 AM -06:00
Anions Processing Method ISO		HS24021420-09	5.0	Finished	2/28/2024 12:43:18 AM -06:00
Anions Processing Method ISO		MBLK-207966	5.0	Finished	2/28/2024 1:01:03 AM -06:00
Anions Processing Method ISO		LCS-207966	5.0	Finished	2/28/2024 1:06:58 AM -06:00
Anions Processing Method ISO		HS24021420-10	5.0	Finished	2/28/2024 1:12:53 AM -06:00
Anions Processing Method ISO		HS24021420-10MS	5.0	Finished	2/28/2024 1:18:48 AM -06:00
Anions Processing Method ISO		HS24021420-10MSD	5.0	Finished	2/28/2024 1:24:43 AM -06:00
Anions Processing Method ISO		HS24021420-11	5.0	Finished	2/28/2024 1:30:39 AM -06:00
Anions Processing Method ISO		CCV1	5.0	Finished	2/28/2024 1:42:29 AM -06:00
Anions Processing Method ISO		CCB	5.0	Finished	2/28/2024 1:48:24 AM -06:00
Anions Processing Method ISO		HS24021420-12	5.0	Finished	2/28/2024 2:00:14 AM -06:00
Anions Processing Method ISO		HS24021420-13	5.0	Finished	2/28/2024 2:06:09 AM -06:00
Anions Processing Method ISO		HS24021420-14	5.0	Finished	2/28/2024 2:12:05 AM -06:00
Anions Processing Method ISO		HS24021420-15	5.0	Finished	2/28/2024 2:18:00 AM -06:00
Anions Processing Method ISO		HS24021420-16	5.0	Finished	2/28/2024 2:23:55 AM -06:00

Sequence: 022724
Last Update Operator: alshs.nouser

Processing Method	CD	Name	me	Status	Inject Time
Anions Processing Method ISO		HS24021420-17	5.0	Finished	2/28/2024 2:29:50 AM -06:00
Anions Processing Method ISO		HS24021420-18	5.0	Finished	2/28/2024 2:35:45 AM -06:00
Anions Processing Method ISO		HS24021420-19	5.0	Finished	2/28/2024 2:41:40 AM -06:00
Anions Processing Method ISO		HS24021420-20	5.0	Finished	2/28/2024 2:47:35 AM -06:00
Anions Processing Method ISO		CCV	5.0	Finished	2/28/2024 3:05:21 AM -06:00
Anions Processing Method ISO		CCB	5.0	Finished	2/28/2024 3:11:16 AM -06:00
Anions Processing Method ISO		HS24021484-01	5.0	Finished	2/28/2024 3:23:07 AM -06:00
Anions Processing Method ISO		HS24021484-02	5.0	Finished	2/28/2024 3:29:02 AM -06:00
Anions Processing Method ISO		HS24021484-03	5.0	Finished	2/28/2024 3:34:58 AM -06:00
Anions Processing Method ISO		HS24021484-04	5.0	Finished	2/28/2024 3:40:53 AM -06:00
Anions Processing Method ISO		HS24021484-05	5.0	Finished	2/28/2024 3:46:48 AM -06:00
Anions Processing Method ISO		HS24021484-06	5.0	Finished	2/28/2024 3:52:43 AM -06:00
Anions Processing Method ISO		HS24021484-07	5.0	Finished	2/28/2024 3:58:39 AM -06:00
Anions Processing Method ISO		HS24021484-08	5.0	Finished	2/28/2024 4:04:34 AM -06:00
Anions Processing Method ISO		HS24021484-09	5.0	Finished	2/28/2024 4:10:29 AM -06:00
Anions Processing Method ISO		CCV1	5.0	Finished	2/28/2024 4:28:15 AM -06:00
Anions Processing Method ISO		CCB	5.0	Finished	2/28/2024 5:15:37 AM -06:00

Sequence: 020424
Injection #6: STD6

Calibration

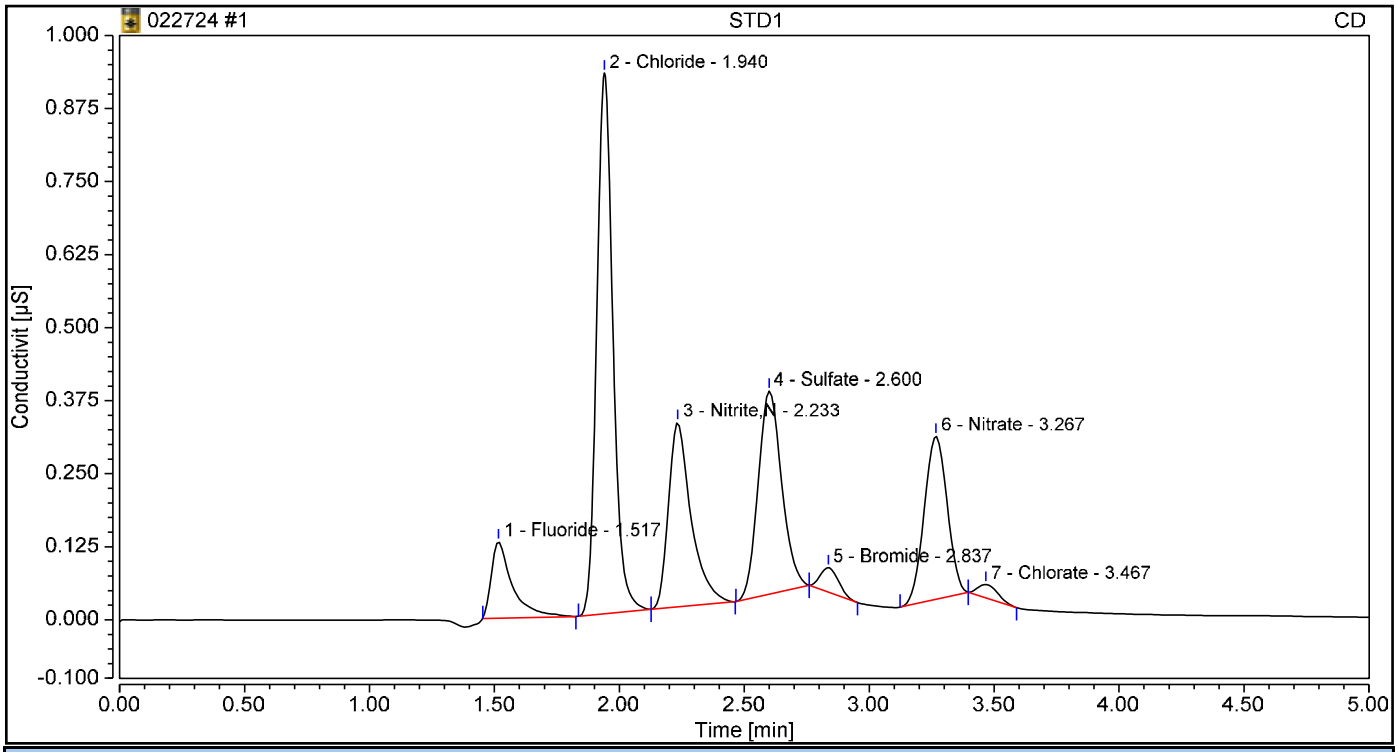
Peak No.	Peak Name	Cal.Type	Eval.Type	Number of Points	Rel.Std.Dev. %	Coeff.of Determination	C0 (Offset)	C1 (Slope)	C2 (Curve)
1	Fluoride	Lin, WithOffset, 1/A	Area	6	12.5278	0.99934	-0.0092	0.1944	0.0000
2	Chloride	Lin, WithOffset, 1/A	Area	6	6.6227	0.99977	-0.0028	0.1427	0.0000
3	Nitrite,N	Quad, WithOffset, 1/A	Area	6	8.3234	0.99966	0.0018	0.3105	-0.0032
4	Sulfate	Quad, WithOffset, 1/A	Area	6	7.1146	0.99983	-0.0111	0.0924	0.0000
5	Bromide	Quad, WithOffset, 1/A	Area	6	5.5114	0.99990	-0.0005	0.0406	0.0003
6	Nitrate	Lin, WithOffset, 1/A	Area	6	5.3444	0.99985	-0.0026	0.3209	0.0000
7	***Chlorate***	***Quad, WithOffset, 1/A***	***Area***	***6***	***7.1552***	***0.99981***	***-0.0009***	***0.0278***	***-0.0001***
n.a.	Phosphate	Lin, WithOffset, 1/A	Area	0	n.a.	n.a.	n.a.	n.a.	n.a.
Maximum					**12.5278**	0.99990			
Minimum					5.3444	**0.99934**			

Chromatogram and Results

Injection Details

Injection Name:	**STD1**	*Run Time (min):*	**5.00**
Vial Number:	**RA1**	*Injection Volume:*	**5.00**
Injection Type:	**Calibration Standard**	*Channel:*	**CD**
Calibration Level:	**1**	*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**04/Feb/24 11:05**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

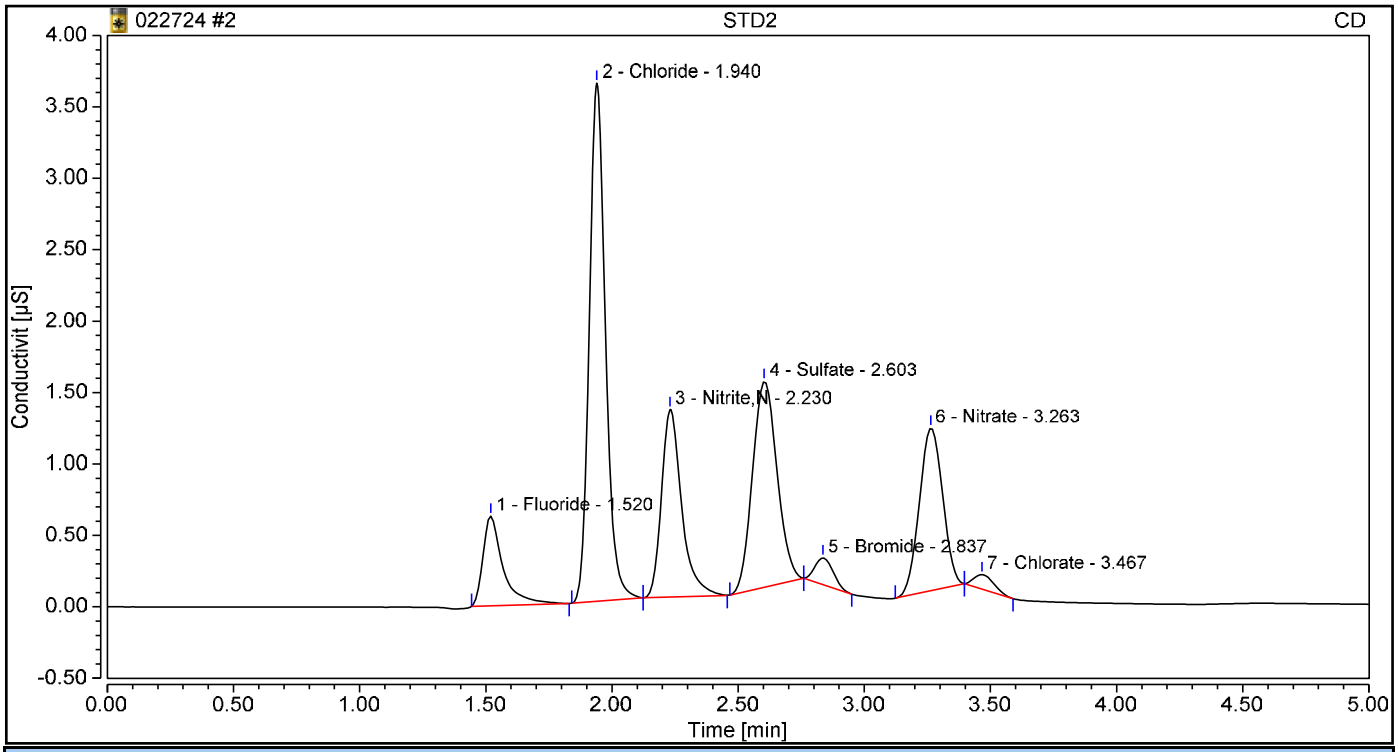
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
1	Fluoride	1.517	0.013	0.131	6.75	6.33	0.1127
2	Chloride	1.940	0.069	0.926	36.72	44.85	0.5049
3	Nitrite,N	2.233	0.033	0.316	17.59	15.31	0.1009
4	Sulfate	2.600	0.038	0.348	20.11	16.84	0.5305
5	Bromide	2.837	0.004	0.042	1.90	2.03	0.1001
6	Nitrate	3.267	0.030	0.279	15.80	13.54	0.1010
7	Chlorate	3.467	0.002	0.023	1.13	1.11	0.1085
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**0.188**	**2.064**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**STD2**	*Run Time (min):*	**5.00**
Vial Number:	**RA2**	*Injection Volume:*	**5.00**
Injection Type:	**Calibration Standard**	*Channel:*	**CD**
Calibration Level:	**2**	*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**04/Feb/24 11:11**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

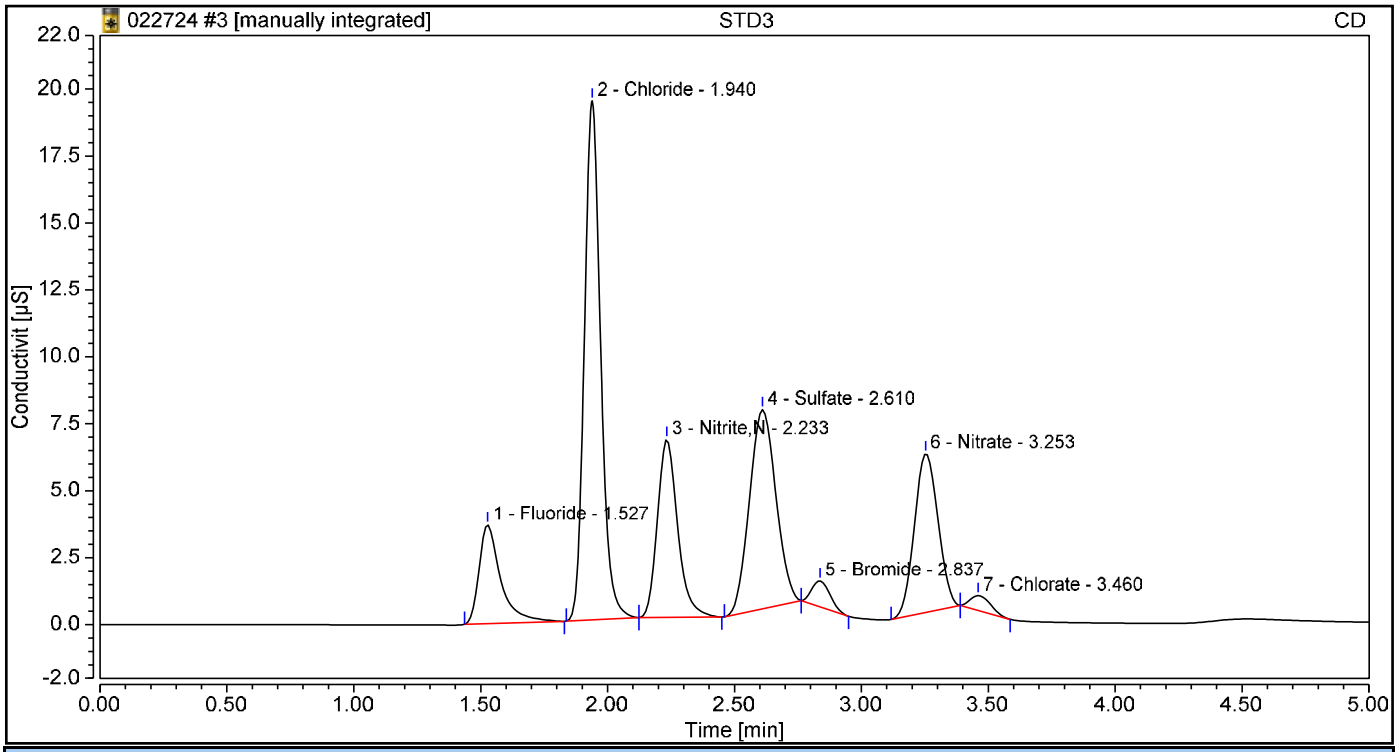
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
1	Fluoride	1.520	0.058	0.628	7.66	7.44	0.3459
2	Chloride	1.940	0.269	3.628	35.54	43.00	1.9083
3	Nitrite,N	2.230	0.121	1.313	16.00	15.56	0.3863
4	Sulfate	2.603	0.162	1.441	21.43	17.08	1.8779
5	Bromide	2.837	0.016	0.187	2.09	2.22	0.4003
6	Nitrate	3.263	0.122	1.139	16.05	13.50	0.3874
7	Chlorate	3.467	0.009	0.101	1.24	1.20	0.3695
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**0.758**	**8.438**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**STD3**	*Run Time (min):*	**5.00**
Vial Number:	**RA3**	*Injection Volume:*	**5.00**
Injection Type:	**Calibration Standard**	*Channel:*	**CD**
Calibration Level:	**3**	*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**04/Feb/24 11:17**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

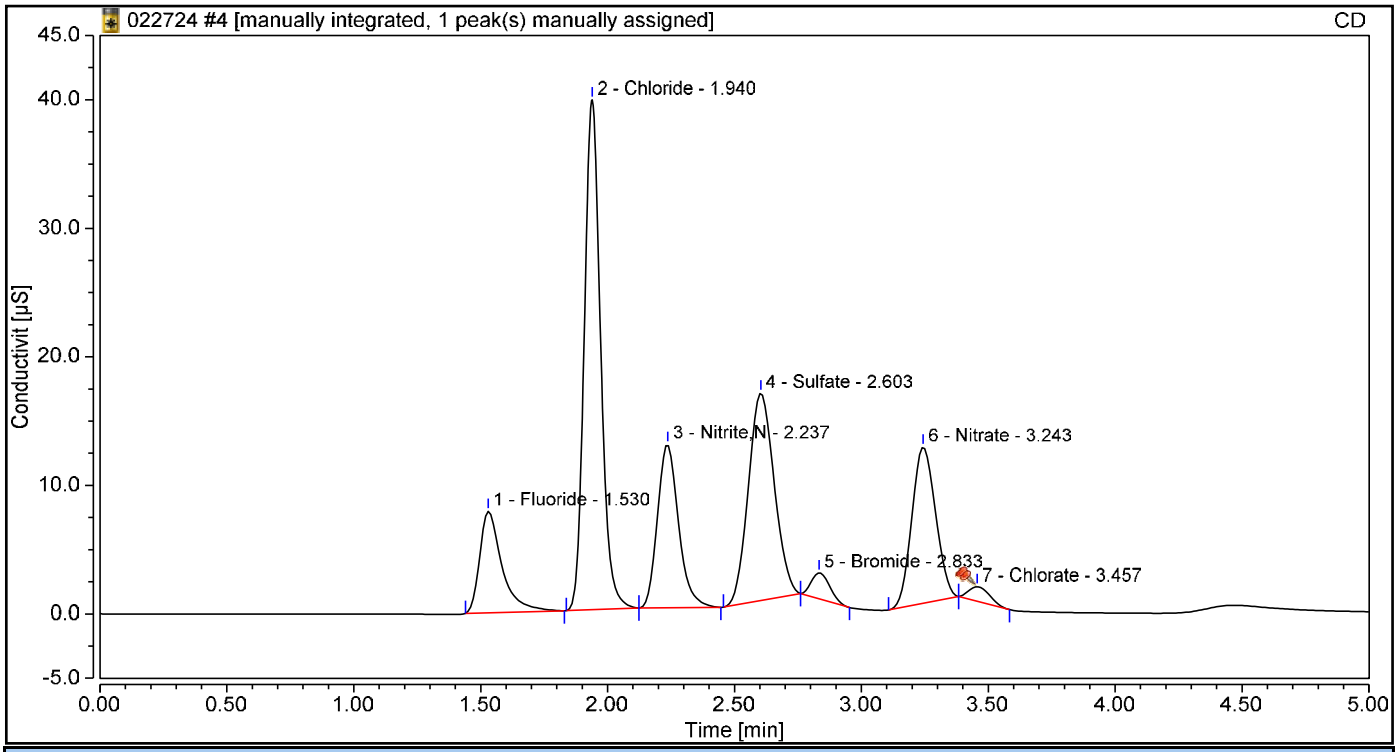
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
1	Fluoride	1.527	0.364	3.687	8.91	8.27	1.9215
2	Chloride	1.940	1.440	19.377	35.20	43.46	10.1140
3	Nitrite,N	2.233	0.618	6.647	15.11	14.91	2.0267
4	Sulfate	2.610	0.896	7.433	21.90	16.67	9.7818
5	Bromide	2.837	0.080	0.966	1.96	2.17	1.9634
6	Nitrate	3.253	0.639	5.928	15.63	13.29	2.0010
7	Chlorate	3.460	0.053	0.553	1.29	1.24	1.9448
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**4.091**	**44.591**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**STD4**	*Run Time (min):*	**5.00**
Vial Number:	**RA4**	*Injection Volume:*	**5.00**
Injection Type:	**Calibration Standard**	*Channel:*	**CD**
Calibration Level:	**4**	*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**04/Feb/24 11:22**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

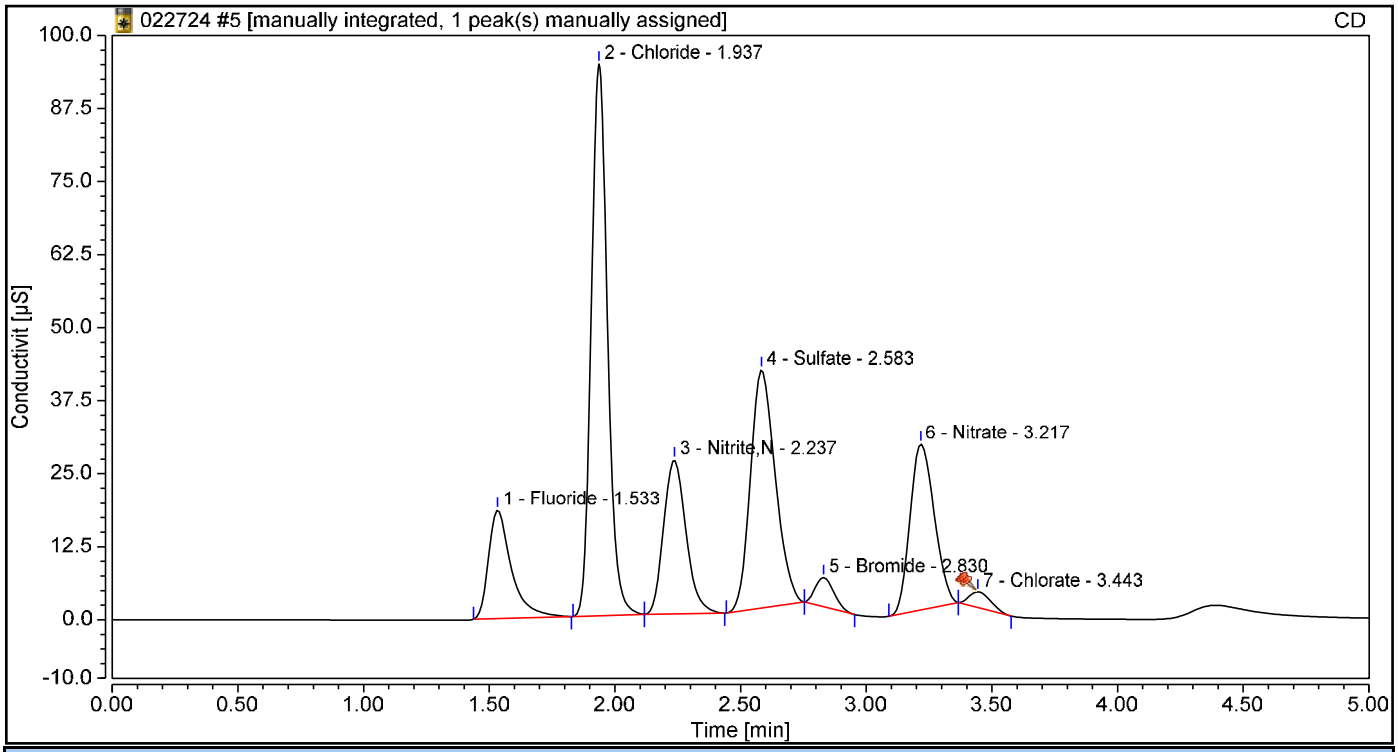
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
1	Fluoride	1.530	0.804	7.889	9.47	8.60	4.1826
2	Chloride	1.940	2.956	39.673	34.81	43.25	20.7427
3	Nitrite,N	2.237	1.228	12.710	14.47	13.86	4.1237
4	Sulfate	2.603	1.902	16.141	22.40	17.60	20.5414
5	Bromide	2.833	0.171	2.010	2.01	2.19	4.0956
6	Nitrate	3.243	1.320	12.157	15.54	13.25	4.1223
7	Chlorate	3.457	0.111	1.142	1.30	1.25	4.0636
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**8.492**	**91.724**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**STD5**	*Run Time (min):*	**5.00**
Vial Number:	**RA5**	*Injection Volume:*	**5.00**
Injection Type:	**Calibration Standard**	*Channel:*	**CD**
Calibration Level:	**5**	*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**04/Feb/24 11:28**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

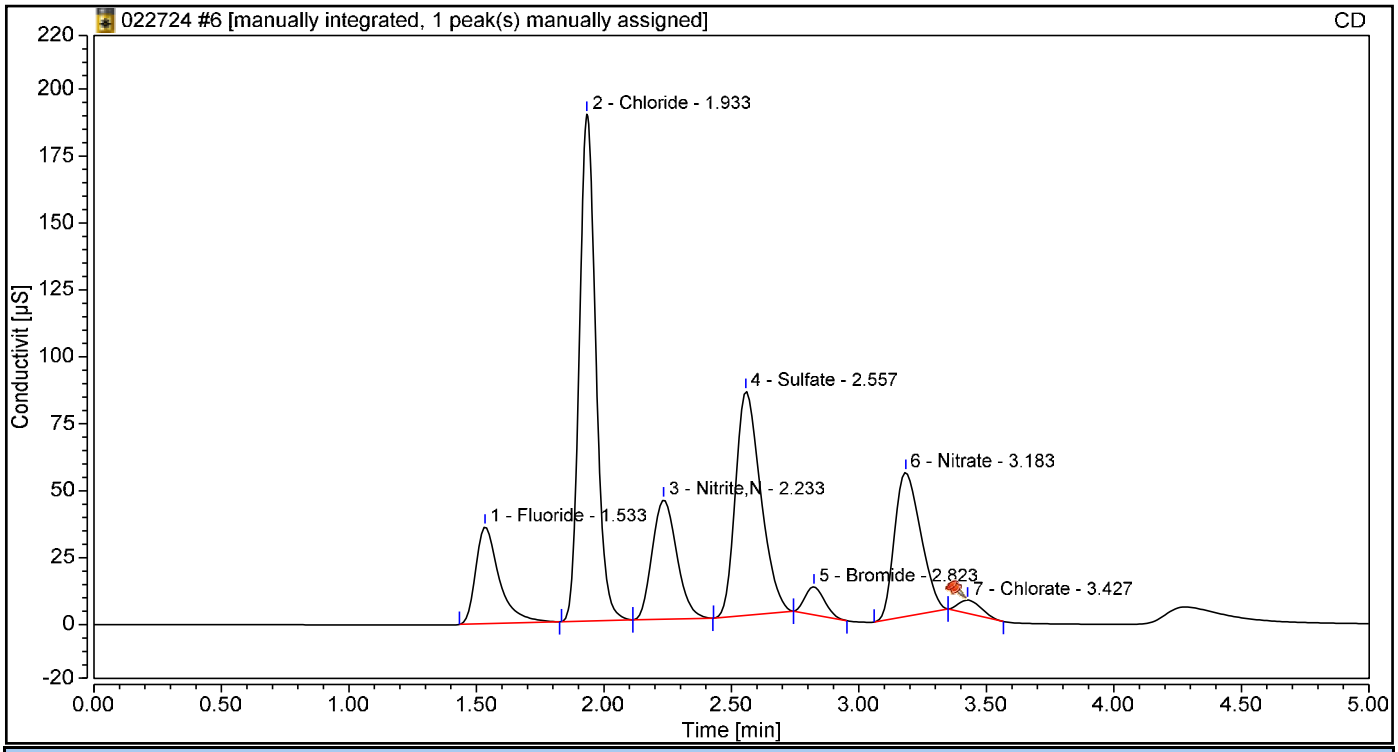
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
1	Fluoride	1.533	1.953	18.596	9.63	8.60	10.0946
2	Chloride	1.937	7.062	94.419	34.80	43.66	49.5196
3	Nitrite,N	2.237	2.727	26.367	13.44	12.19	9.7461
4	Sulfate	2.583	4.672	40.798	23.02	18.86	49.7062
5	Bromide	2.830	0.430	4.976	2.12	2.30	9.9169
6	Nitrate	3.217	3.178	28.441	15.66	13.15	9.9131
7	Chlorate	3.443	0.269	2.671	1.32	1.24	10.0449
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**20.292**	**216.268**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**STD6**	*Run Time (min):*	**5.00**
Vial Number:	**RA6**	*Injection Volume:*	**5.00**
Injection Type:	**Calibration Standard**	*Channel:*	**CD**
Calibration Level:	**6**	*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**04/Feb/24 11:34**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

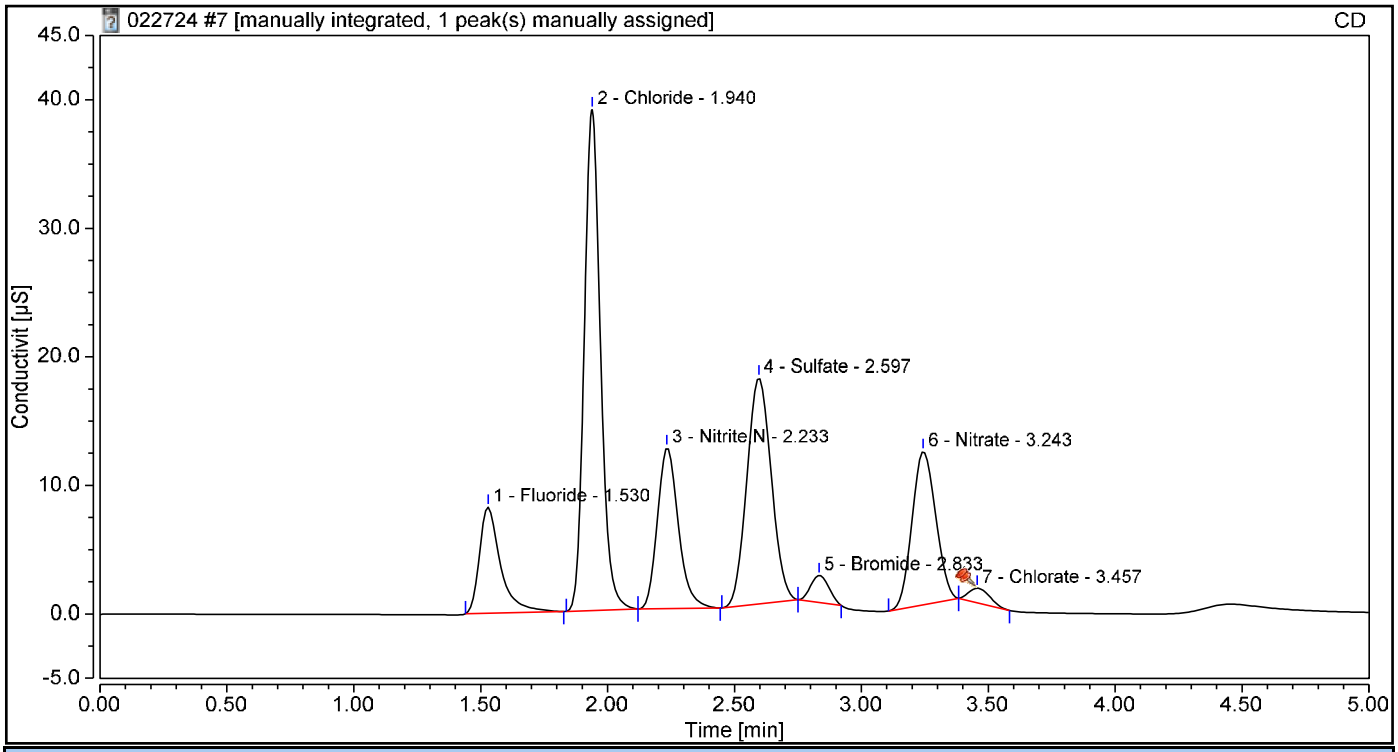
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
1	Fluoride	1.533	3.849	36.177	9.50	8.56	19.8428
2	Chloride	1.933	14.222	189.183	35.12	44.74	99.7105
3	Nitrite,N	2.233	4.970	44.547	12.27	10.54	20.1293
4	Sulfate	2.557	9.603	83.678	23.71	19.79	100.0620
5	Bromide	2.823	0.927	10.487	2.29	2.48	20.0241
6	Nitrate	3.183	6.407	53.786	15.82	12.72	19.9752
7	Chlorate	3.427	0.516	4.994	1.27	1.18	19.9683
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**40.493**	**422.852**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**ICV**	*Run Time (min):*	**5.00**
Vial Number:	**RA7**	*Injection Volume:*	**5.00**
Injection Type:	**Unknown**	*Channel:*	**CD**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**04/Feb/24 11:46**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

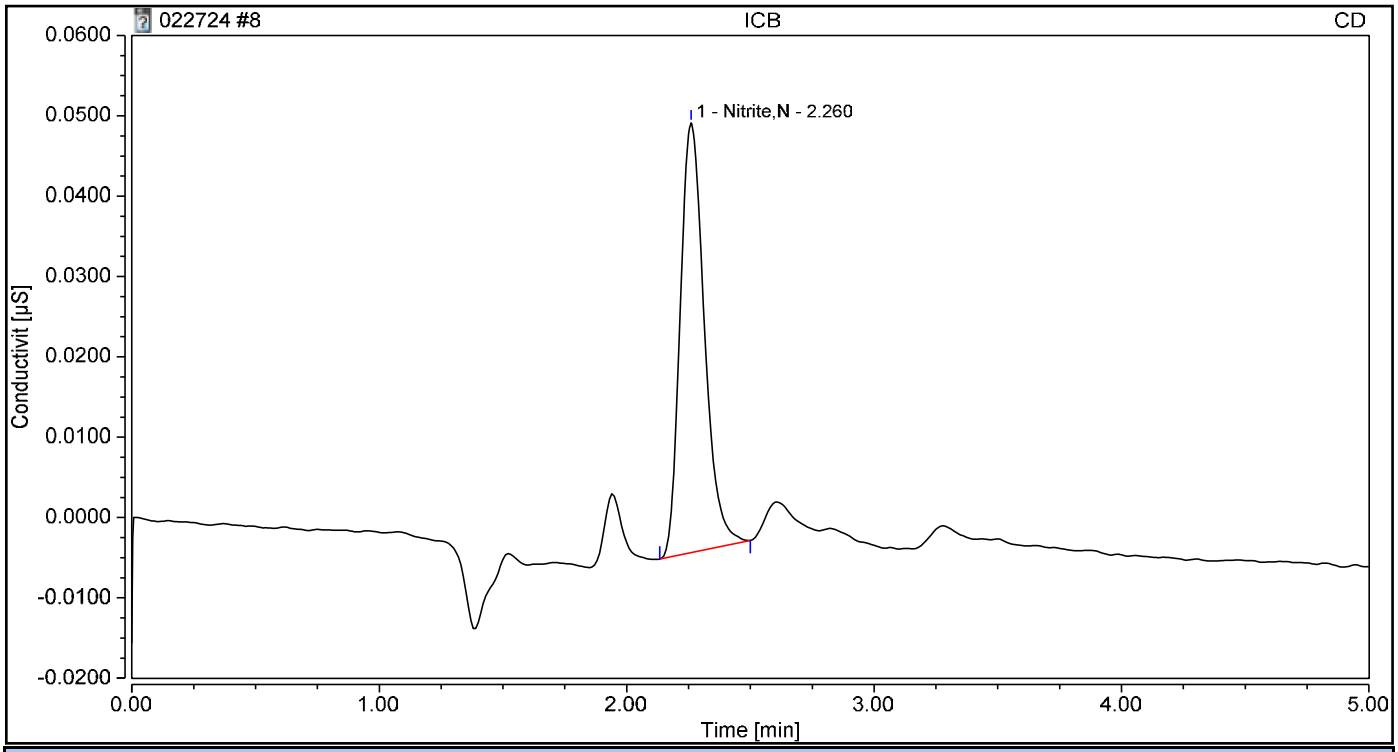
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
1	Fluoride	1.530	0.796	8.251	9.44	8.92	4.1416
2	Chloride	1.940	2.893	38.961	34.33	42.13	20.3001
3	Nitrite,N	2.233	1.204	12.516	14.28	13.53	4.0374
4	Sulfate	2.597	1.958	17.595	23.23	19.03	21.1387
5	Bromide	2.833	0.175	2.102	2.08	2.27	4.2082
6	Nitrate	3.243	1.292	11.921	15.33	12.89	4.0362
7	Chlorate	3.457	0.110	1.128	1.30	1.22	4.0248
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**8.429**	**92.474**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**ICB**	*Run Time (min):*	**5.00**
Vial Number:	**RA8**	*Injection Volume:*	**5.00**
Injection Type:	**Unknown**	*Channel:*	**CD**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**04/Feb/24 12:04**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

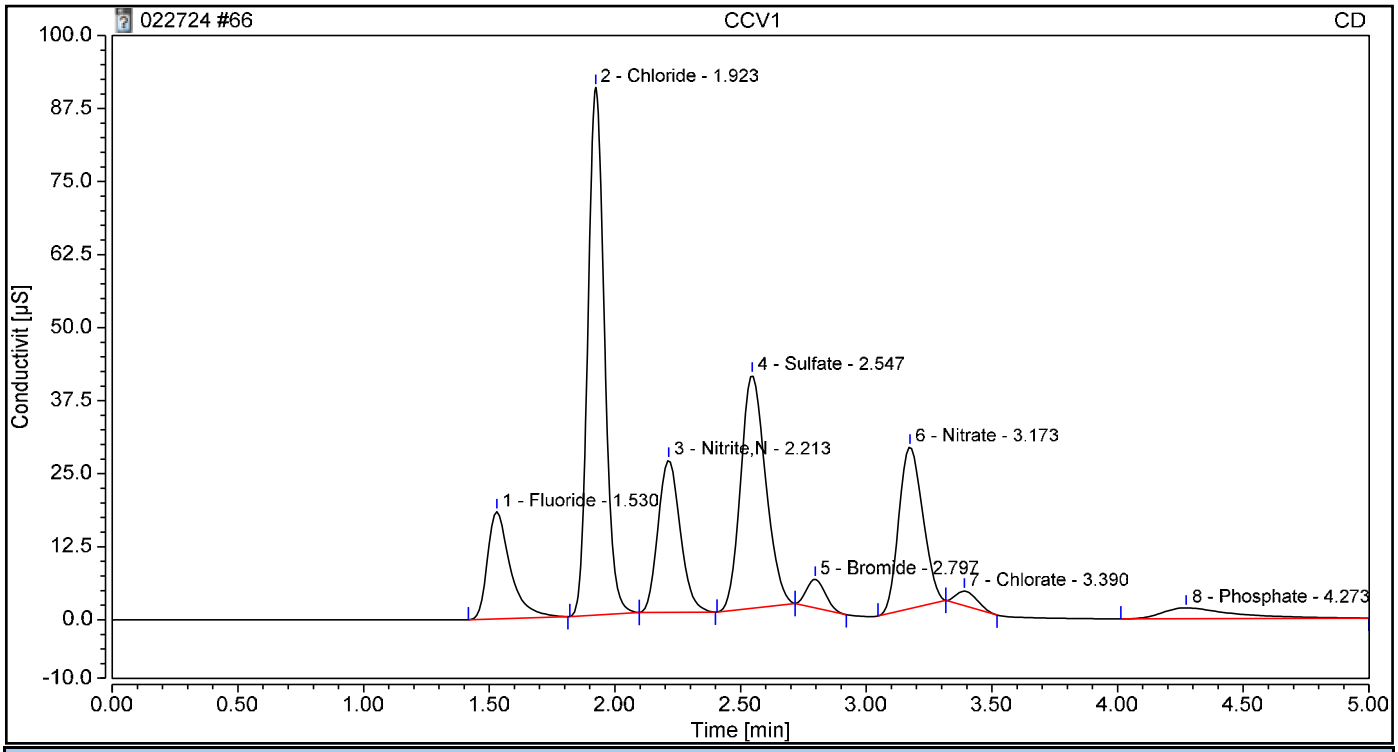
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Nitrite,N	2.260	0.006	0.053	100.00	100.00	0.0135
n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**0.006**	**0.053**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCV1**	*Run Time (min):*	**5.00**
Vial Number:	**R3**	*Injection Volume:*	**5.00**
Injection Type:	**Unknown**	*Channel:*	**CD**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**27/Feb/24 13:52**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

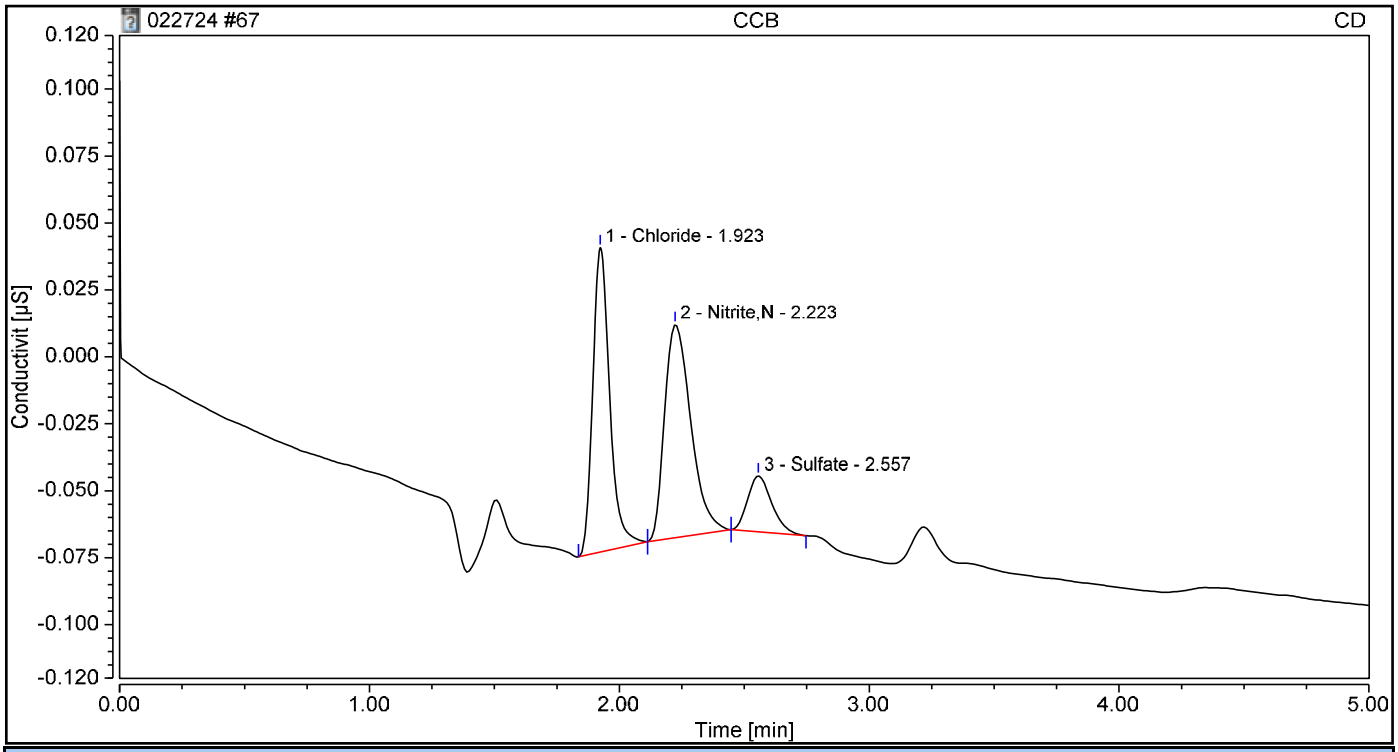
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
1	Fluoride	1.530	1.940	18.333	9.50	8.67	10.0234
2	Chloride	1.923	6.871	90.288	33.64	42.69	48.1821
3	Nitrite,N	2.213	2.677	26.044	13.11	12.31	9.5439
4	Sulfate	2.547	4.598	39.895	22.51	18.86	48.9317
5	Bromide	2.797	0.425	4.900	2.08	2.32	9.8007
6	Nitrate	3.173	3.061	27.675	14.99	13.09	9.5490
7	Chlorate	3.390	0.245	2.495	1.20	1.18	9.1468
8	Phosphate	4.273	0.610	1.856	2.99	0.88	n.a.
Total:			**20.427**	**211.486**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCB**	*Run Time (min):*	**5.00**
Vial Number:	**R7**	*Injection Volume:*	**5.00**
Injection Type:	**Unknown**	*Channel:*	**CD**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**27/Feb/24 13:57**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

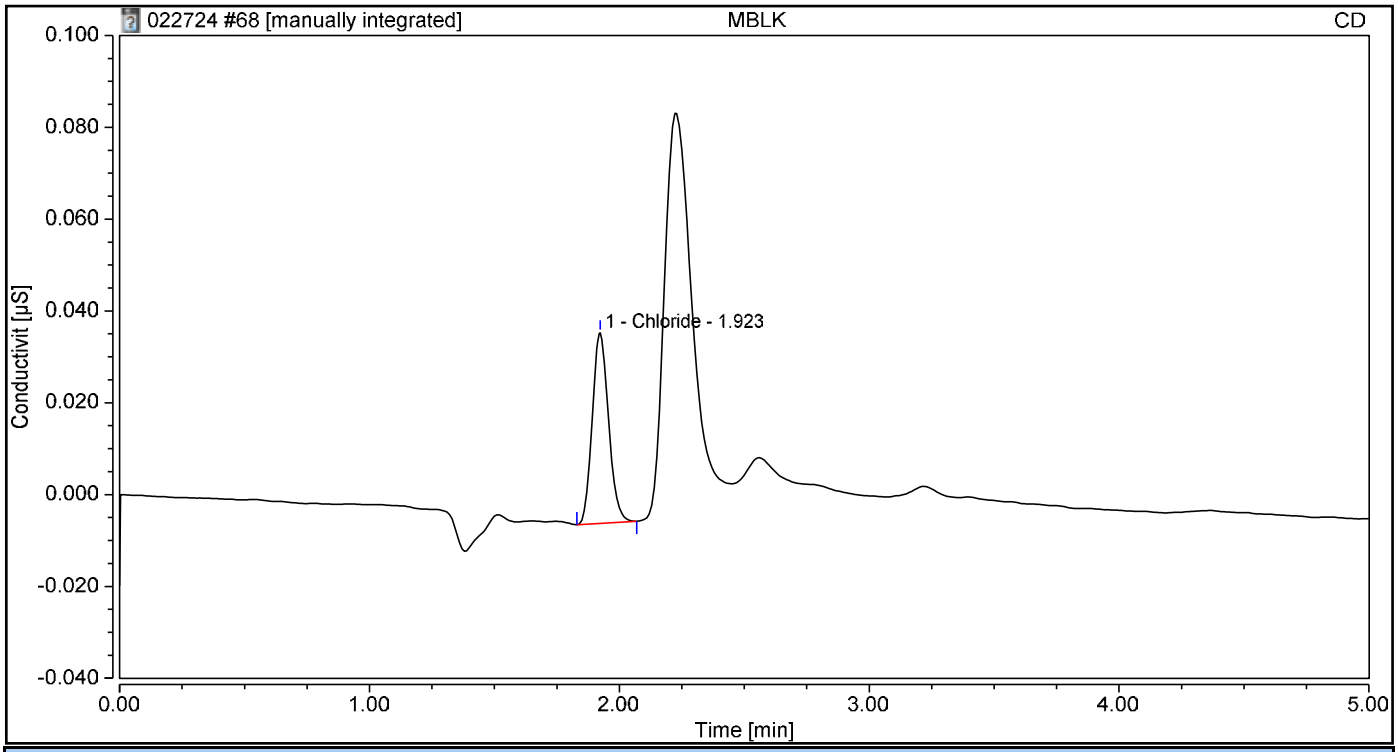
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Chloride	1.923	0.009	0.114	42.48	53.06	0.0821
2	Nitrite,N	2.223	0.010	0.080	46.31	37.17	0.0253
3	Sulfate	2.557	0.002	0.021	11.22	9.77	0.1456
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**0.021**	**0.214**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**MBLK**	*Run Time (min):*	**5.00**
Vial Number:	**R5**	*Injection Volume:*	**5.00**
Injection Type:	**Unknown**	*Channel:*	**CD**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**27/Feb/24 14:09**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

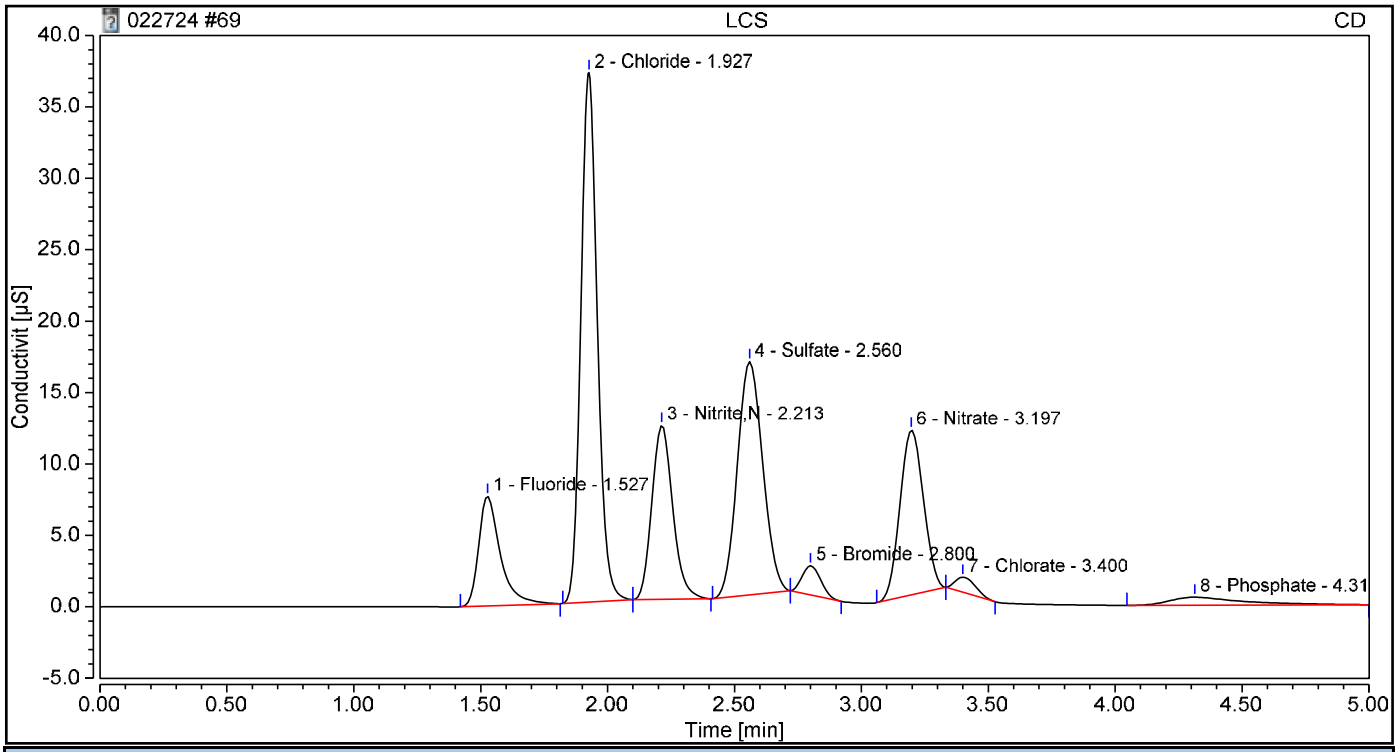
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Chloride	1.923	0.003	0.041	100.00	100.00	0.0417
n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**0.003**	**0.041**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**LCS**	*Run Time (min):*	**5.00**
Vial Number:	**R2**	*Injection Volume:*	**5.00**
Injection Type:	**Unknown**	*Channel:*	**CD**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**27/Feb/24 14:15**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

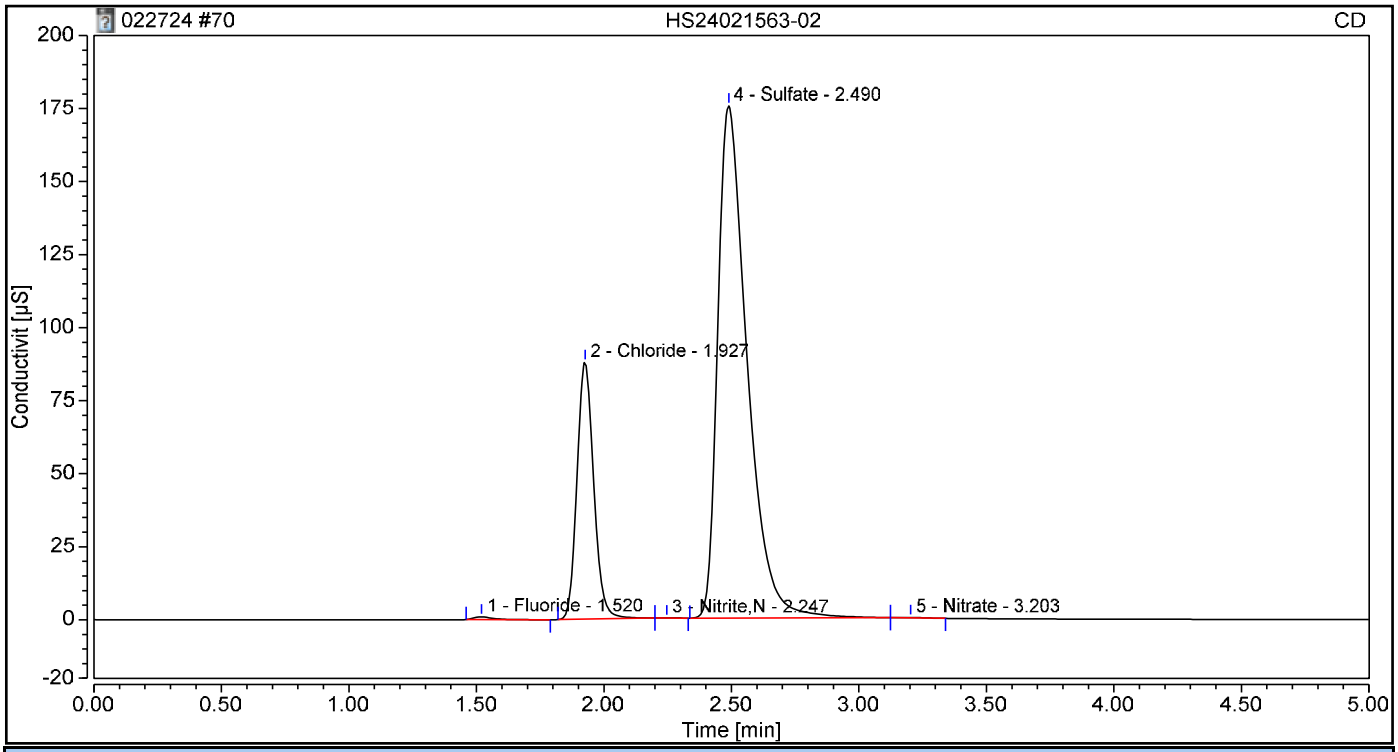
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
1	Fluoride	1.527	0.762	7.680	9.16	8.68	3.9685
2	Chloride	1.927	2.798	37.054	33.63	41.88	19.6334
3	Nitrite,N	2.213	1.166	12.192	14.02	13.78	3.9058
4	Sulfate	2.560	1.890	16.331	22.71	18.46	20.4076
5	Bromide	2.800	0.177	2.052	2.12	2.32	4.2375
6	Nitrate	3.197	1.239	11.545	14.90	13.05	3.8711
7	Chlorate	3.400	0.100	1.059	1.20	1.20	3.6812
8	Phosphate	4.313	0.188	0.560	2.26	0.63	n.a.
Total:			**8.321**	**88.474**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**HS24021563-02**	*Run Time (min):*	**5.00**
Vial Number:	**GA5**	*Injection Volume:*	**5.00**
Injection Type:	**Unknown**	*Channel:*	**CD**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**27/Feb/24 14:21**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

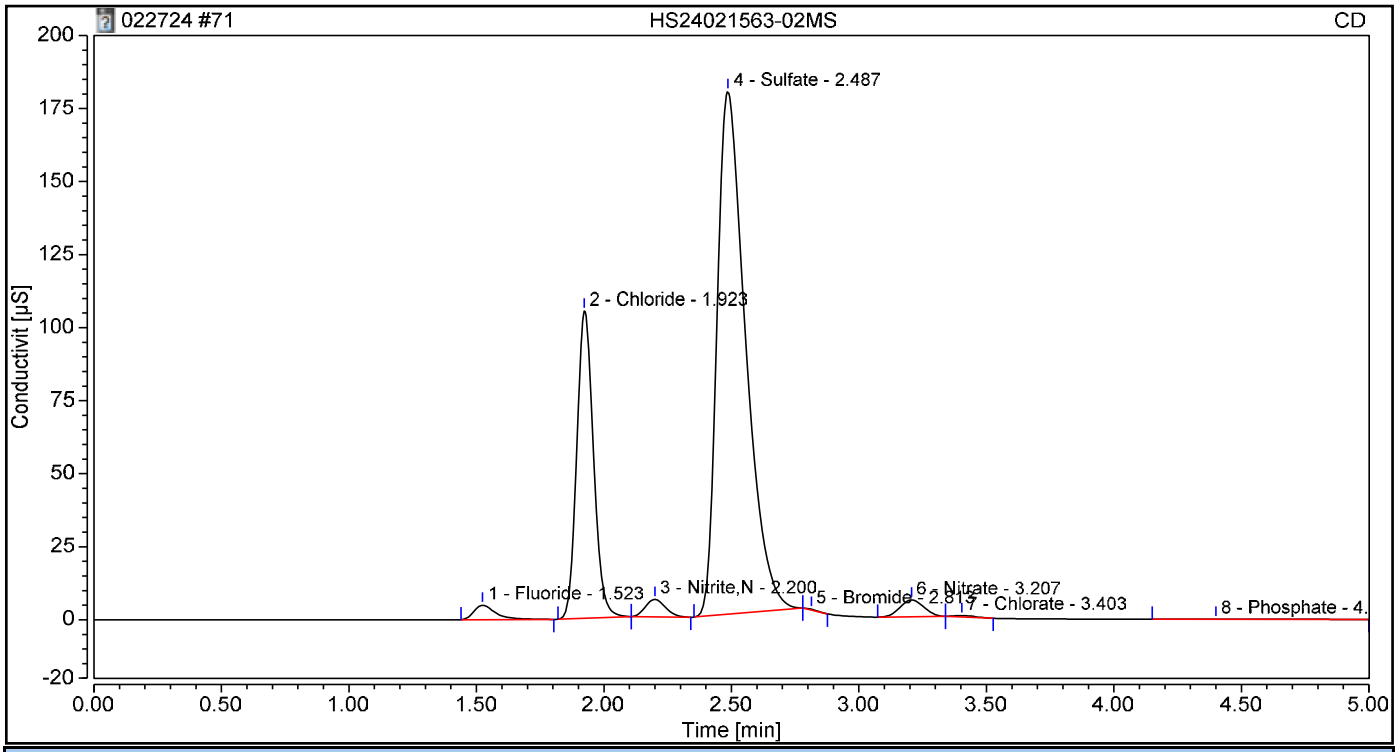
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
1	Fluoride	1.520	0.079	0.941	0.26	0.36	0.4527
2	Chloride	1.927	6.663	87.829	22.12	33.24	46.7216
3	Nitrite,N	2.247	0.003	0.038	0.01	0.01	0.0043
4	Sulfate	2.490	23.361	175.300	77.56	66.34	231.5354
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Nitrate	3.203	0.014	0.132	0.05	0.05	0.0508
n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**30.119**	**264.239**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**HS24021563-02MS**	*Run Time (min):*	**5.00**
Vial Number:	**GA6**	*Injection Volume:*	**5.00**
Injection Type:	**Unknown**	*Channel:*	**CD**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**27/Feb/24 14:27**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

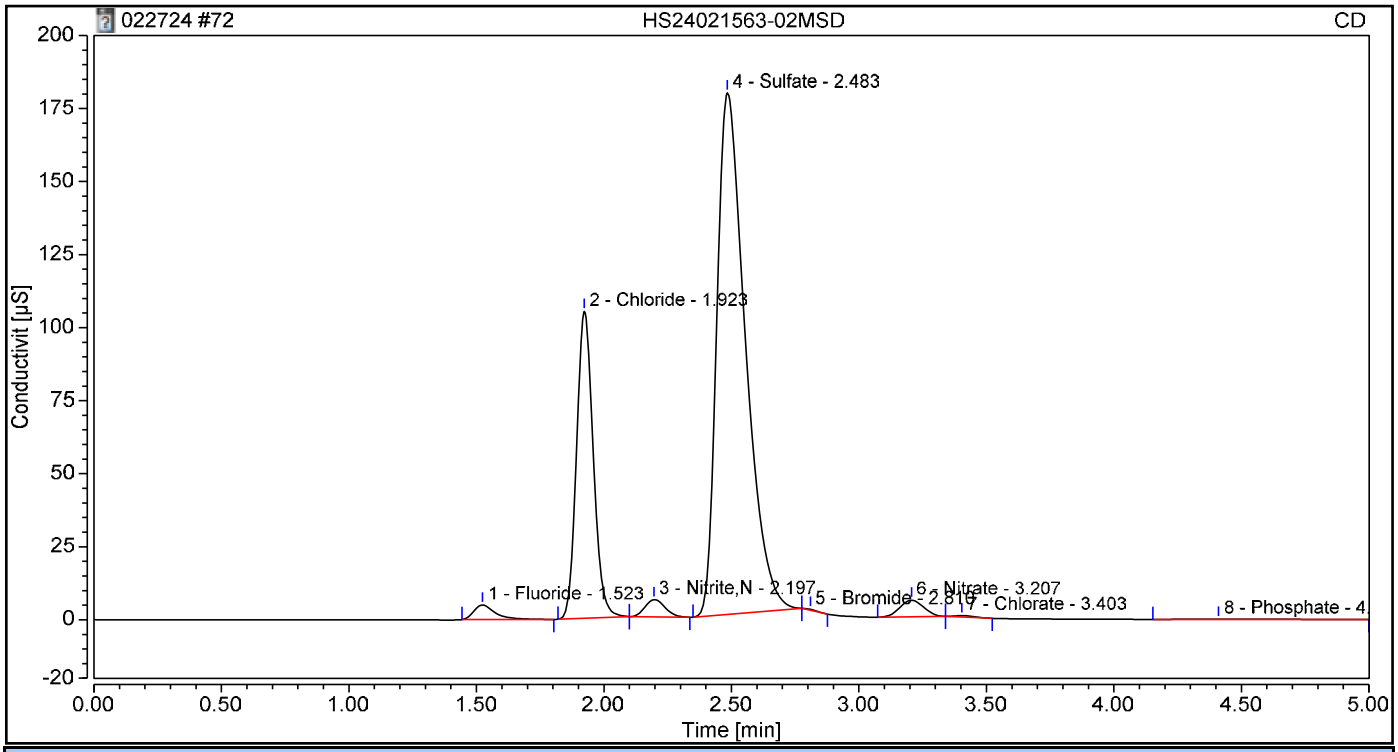
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
1	Fluoride	1.523	0.488	4.941	1.49	1.64	2.5577
2	Chloride	1.923	7.967	105.176	24.24	34.86	55.8619
3	Nitrite,N	2.200	0.541	5.981	1.65	1.98	1.7675
4	Sulfate	2.487	23.156	178.976	70.45	59.32	229.6626
5	Bromide	2.813	0.014	0.288	0.04	0.10	0.3456
6	Nitrate	3.207	0.618	5.739	1.88	1.90	1.9351
7	Chlorate	3.403	0.047	0.498	0.14	0.17	1.7156
8	Phosphate	4.400	0.038	0.097	0.12	0.03	n.a.
Total:			**32.868**	**301.696**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**HS24021563-02MSD**	*Run Time (min):*	**5.00**
Vial Number:	**GA7**	*Injection Volume:*	**5.00**
Injection Type:	**Unknown**	*Channel:*	**CD**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**27/Feb/24 14:33**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

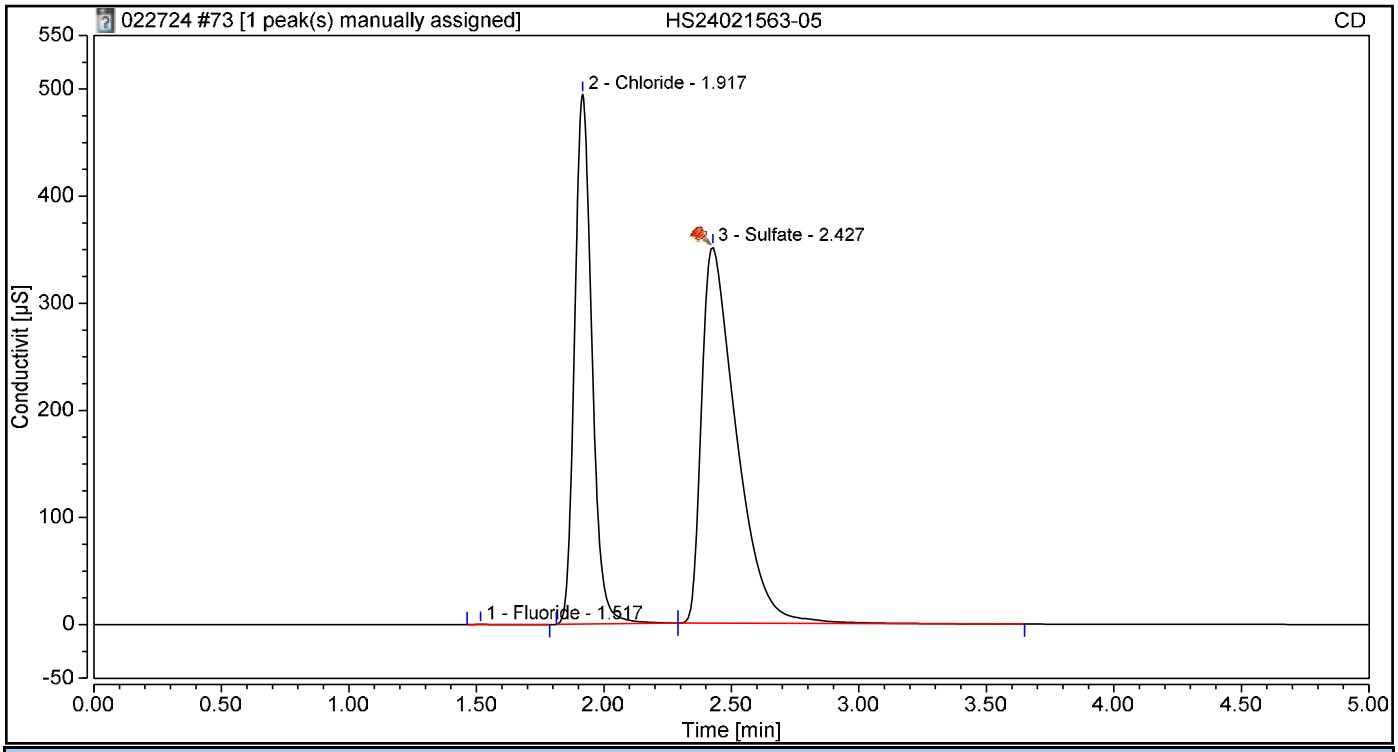
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
1	Fluoride	1.523	0.485	4.988	1.48	1.66	2.5425
2	Chloride	1.923	7.948	105.103	24.23	34.89	55.7301
3	Nitrite,N	2.197	0.539	5.932	1.64	1.97	1.7615
4	Sulfate	2.483	23.104	178.536	70.45	59.27	229.1813
5	Bromide	2.810	0.016	0.323	0.05	0.11	0.4038
6	Nitrate	3.207	0.616	5.727	1.88	1.90	1.9285
7	Chlorate	3.403	0.047	0.505	0.14	0.17	1.7256
8	Phosphate	4.410	0.041	0.104	0.13	0.03	n.a.
Total:			**32.796**	**301.217**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**HS24021563-05**	*Run Time (min):*	**5.00**
Vial Number:	**GA8**	*Injection Volume:*	**5.00**
Injection Type:	**Unknown**	*Channel:*	**CD**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**27/Feb/24 14:39**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

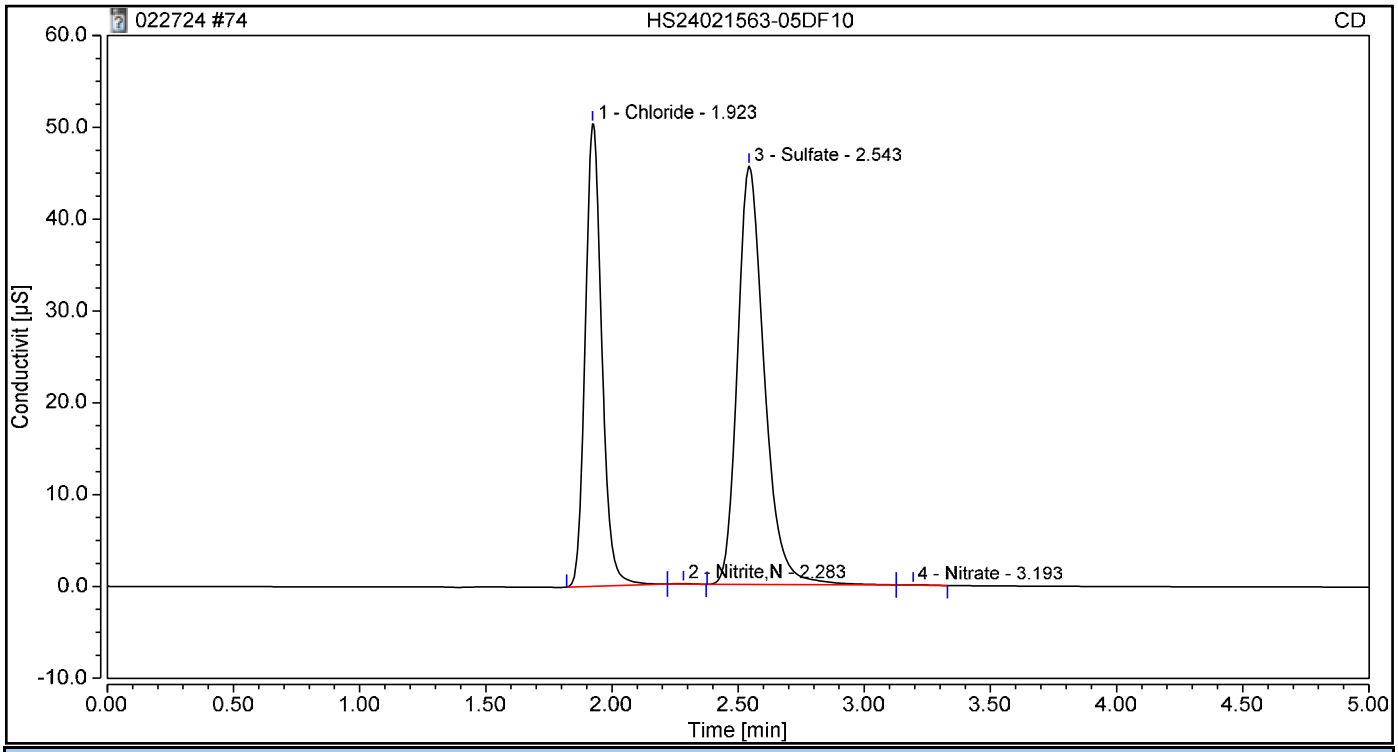
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
1	Fluoride	1.517	0.022	0.243	0.02	0.03	0.1592
2	Chloride	1.917	39.020	494.577	41.38	58.43	273.5334
n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate	2.427	55.258	351.659	58.60	41.54	498.6890
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**94.300**	**846.479**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**HS24021563-05DF10**	*Run Time (min):*	**5.00**
Vial Number:	**GB1**	*Injection Volume:*	**5.00**
Injection Type:	**Unknown**	*Channel:*	**CD**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**27/Feb/24 14:45**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

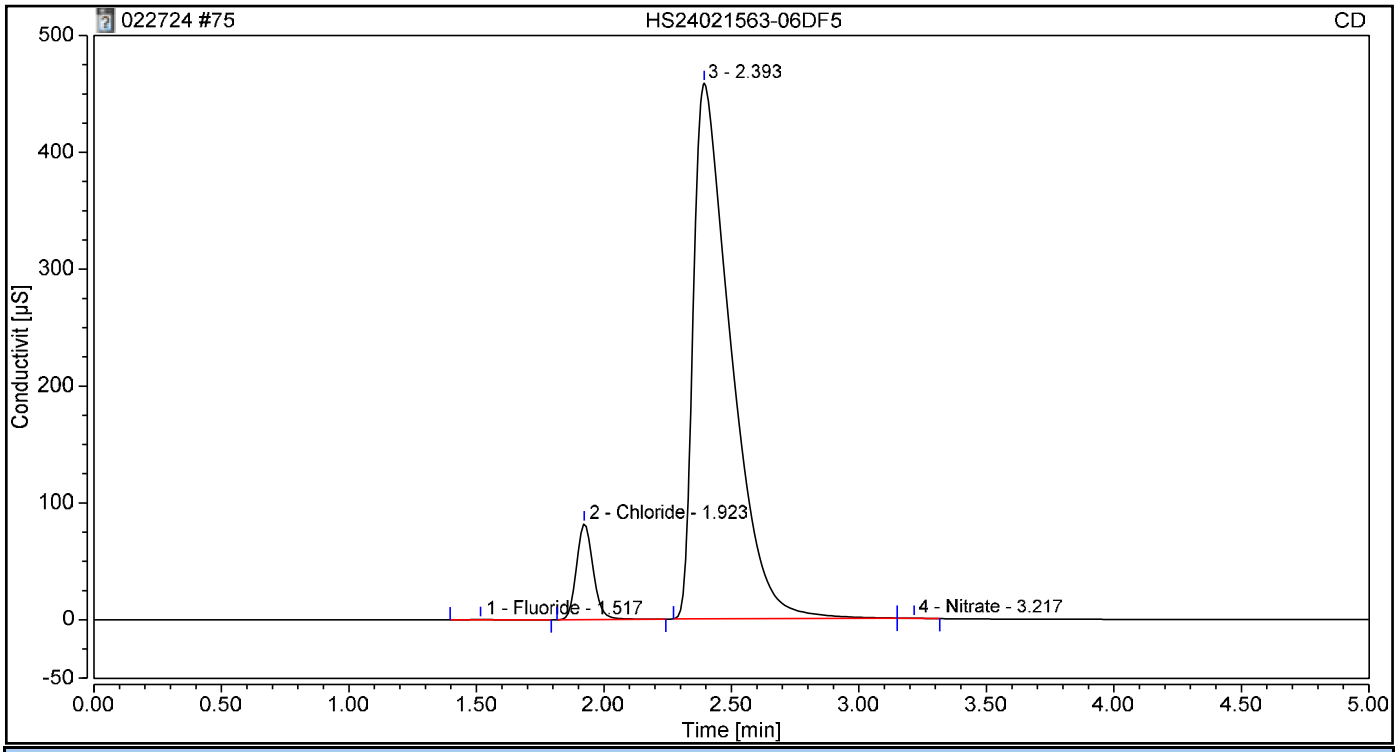
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Chloride	1.923	3.829	50.366	40.65	52.47	268.6272
2	Nitrite,N	2.283	0.005	0.051	0.05	0.05	0.0906
3	Sulfate	2.543	5.584	45.553	59.27	47.45	591.6207
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Nitrate	3.193	0.003	0.025	0.03	0.03	0.1707
n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**9.421**	**95.995**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**HS24021563-06DF5**	*Run Time (min):*	**5.00**
Vial Number:	**GB2**	*Injection Volume:*	**5.00**
Injection Type:	**Unknown**	*Channel:*	**CD**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**5.0000**
Injection Date/Time:	**27/Feb/24 14:51**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

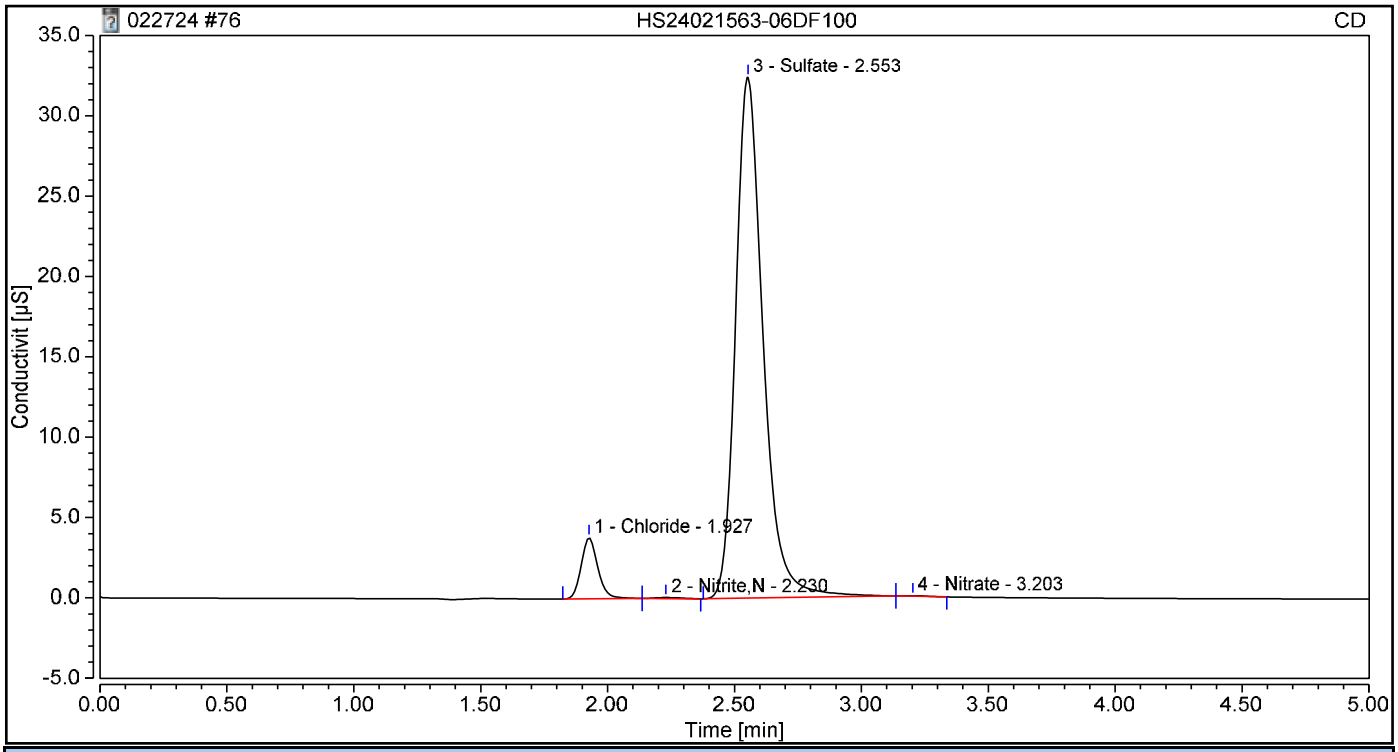
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
1	Fluoride	1.517	0.035	0.338	0.04	0.06	1.1332
2	Chloride	1.923	6.221	82.116	7.41	15.19	218.1221
n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3		2.393	77.724	458.125	92.54	84.73	n.a.
n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Nitrate	3.217	0.009	0.104	0.01	0.02	0.1768
n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**83.988**	**540.684**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**HS24021563-06DF100**	*Run Time (min):*	**5.00**
Vial Number:	**GB3**	*Injection Volume:*	**5.00**
Injection Type:	**Unknown**	*Channel:*	**CD**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**100.0000**
Injection Date/Time:	**27/Feb/24 14:57**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

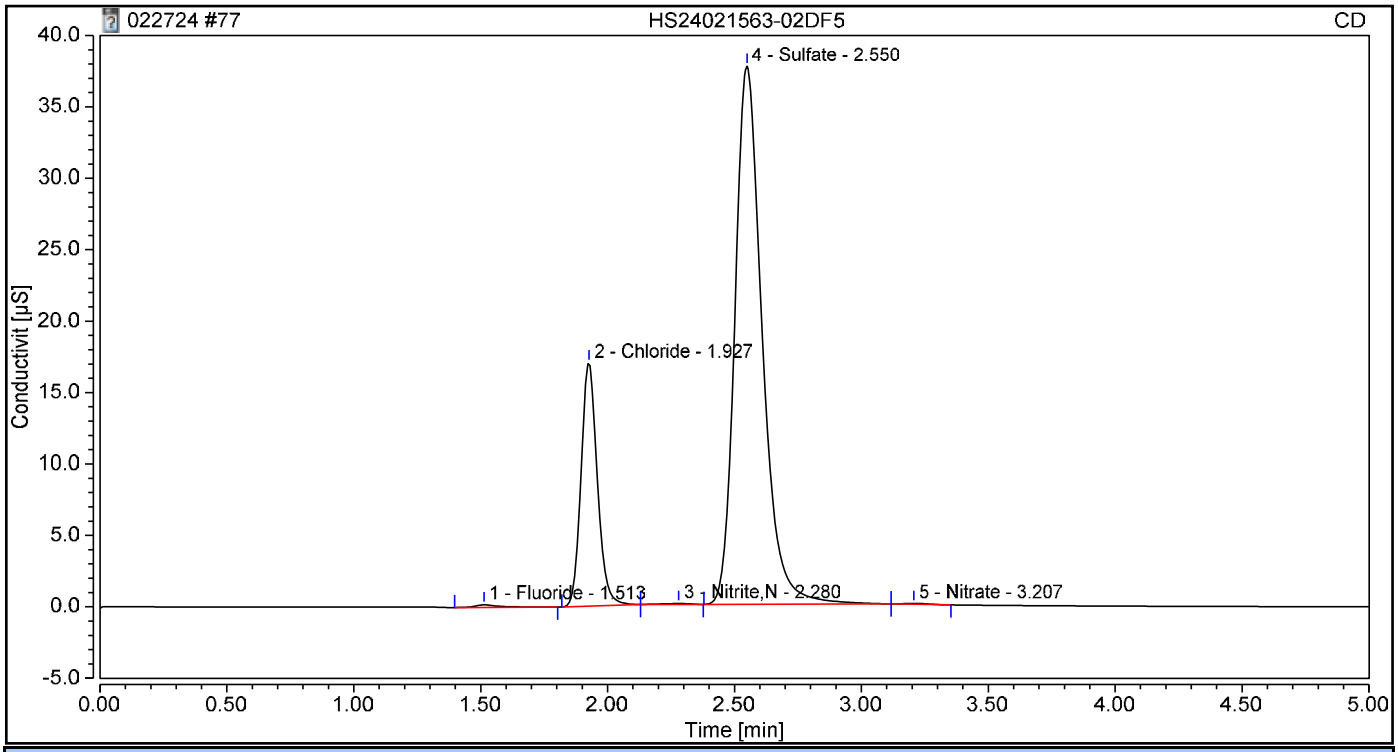
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Chloride	1.927	0.290	3.807	6.64	10.48	205.1075
2	Nitrite,N	2.230	0.008	0.064	0.19	0.18	2.0780
3	Sulfate	2.553	4.065	32.417	93.10	89.25	4337.4316
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Nitrate	3.203	0.003	0.034	0.08	0.09	1.8562
n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**4.367**	**36.322**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**HS24021563-02DF5**	*Run Time (min):*	**5.00**
Vial Number:	**GA5**	*Injection Volume:*	**5.00**
Injection Type:	**Unknown**	*Channel:*	**CD**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**5.0000**
Injection Date/Time:	**27/Feb/24 15:03**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

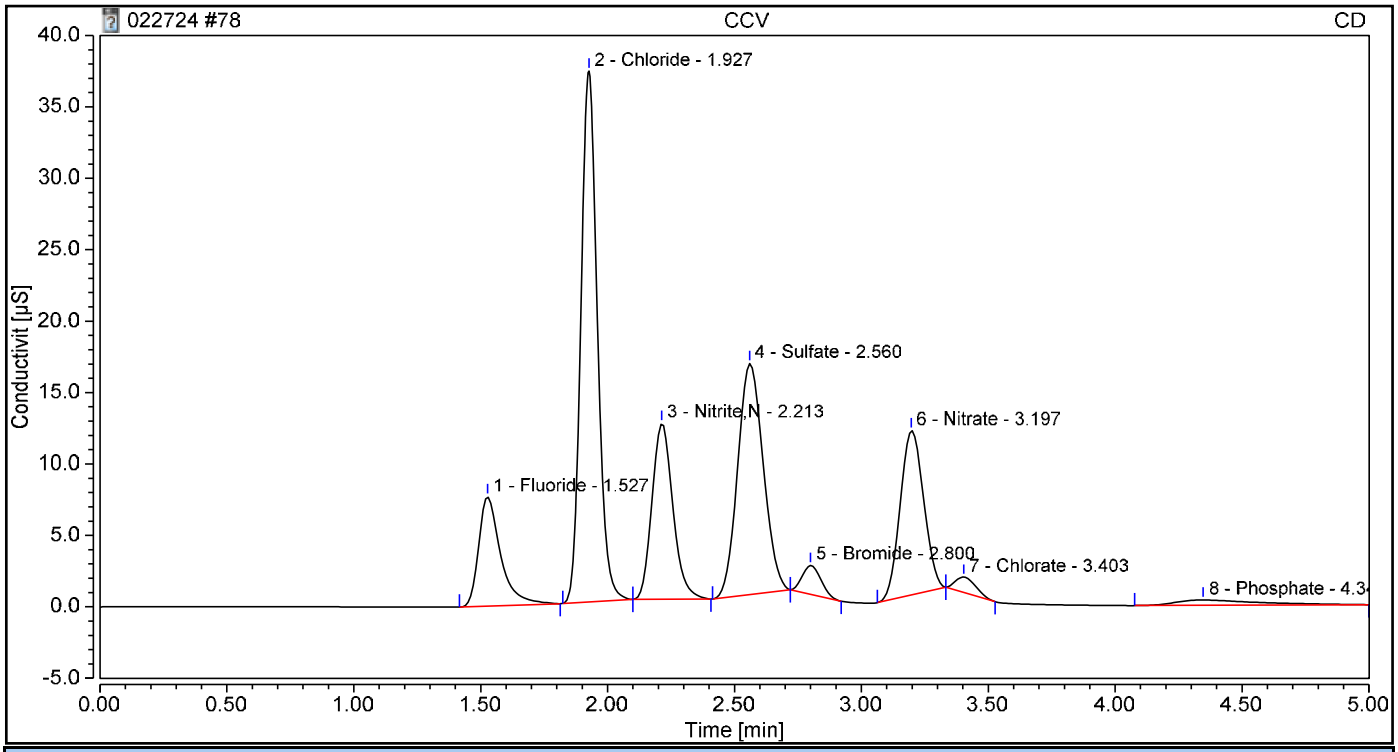
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
1	Fluoride	1.513	0.022	0.187	0.36	0.34	0.7893
2	Chloride	1.927	1.273	17.027	21.25	30.95	44.7281
3	Nitrite,N	2.280	0.009	0.063	0.15	0.11	0.1141
4	Sulfate	2.550	4.682	37.677	78.14	68.49	249.0400
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Nitrate	3.207	0.006	0.058	0.10	0.11	0.1360
n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**5.992**	**55.012**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCV**	*Run Time (min):*	**5.00**
Vial Number:	**R1**	*Injection Volume:*	**5.00**
Injection Type:	**Unknown**	*Channel:*	**CD**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**27/Feb/24 15:14**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

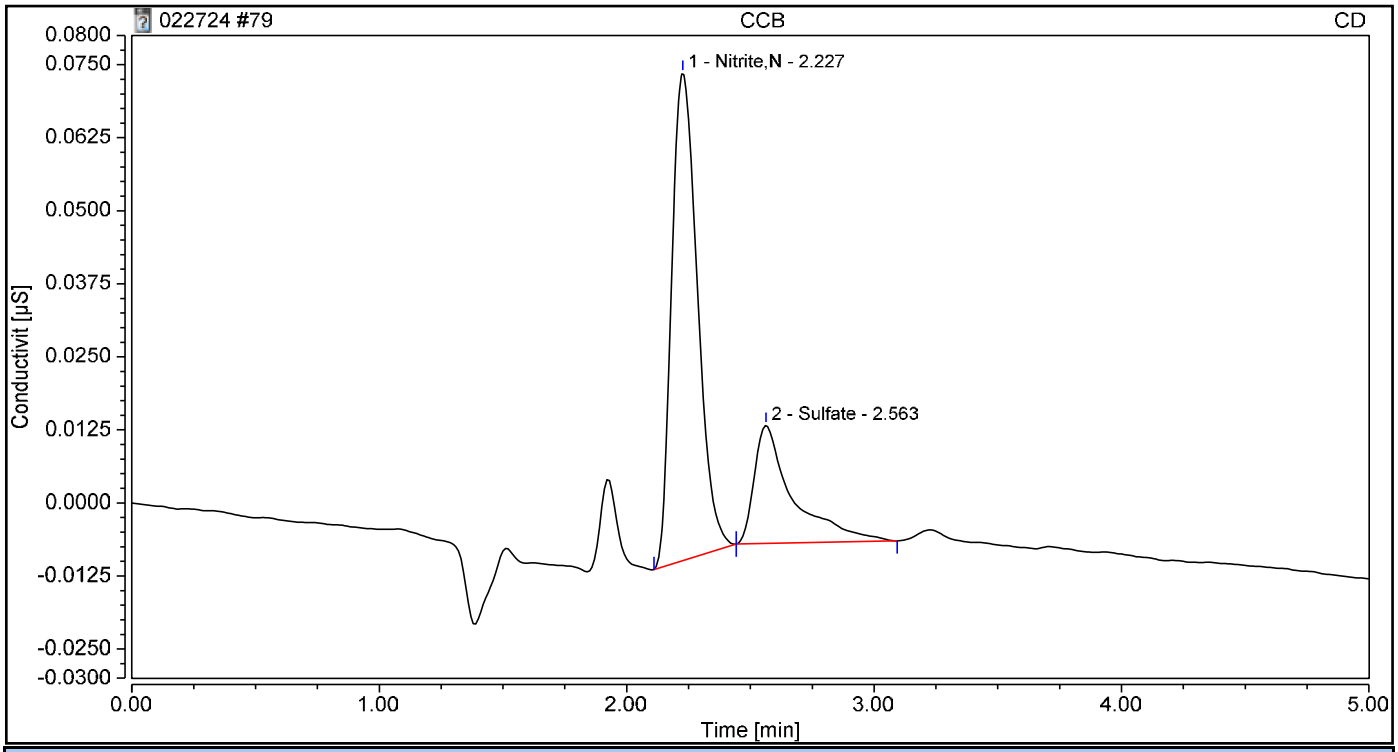
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
1	Fluoride	1.527	0.770	7.656	9.30	8.67	4.0070
2	Chloride	1.927	2.803	37.162	33.84	42.09	19.6644
3	Nitrite,N	2.213	1.179	12.320	14.23	13.95	3.9490
4	Sulfate	2.560	1.881	16.172	22.71	18.32	20.3134
5	Bromide	2.800	0.174	2.018	2.10	2.29	4.1639
6	Nitrate	3.197	1.235	11.510	14.91	13.04	3.8566
7	Chlorate	3.403	0.101	1.073	1.22	1.22	3.6997
8	Phosphate	4.347	0.141	0.372	1.70	0.42	n.a.
Total:			**8.282**	**88.283**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCB**	*Run Time (min):*	**5.00**
Vial Number:	**R6**	*Injection Volume:*	**5.00**
Injection Type:	**Unknown**	*Channel:*	**CD**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**27/Feb/24 15:32**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

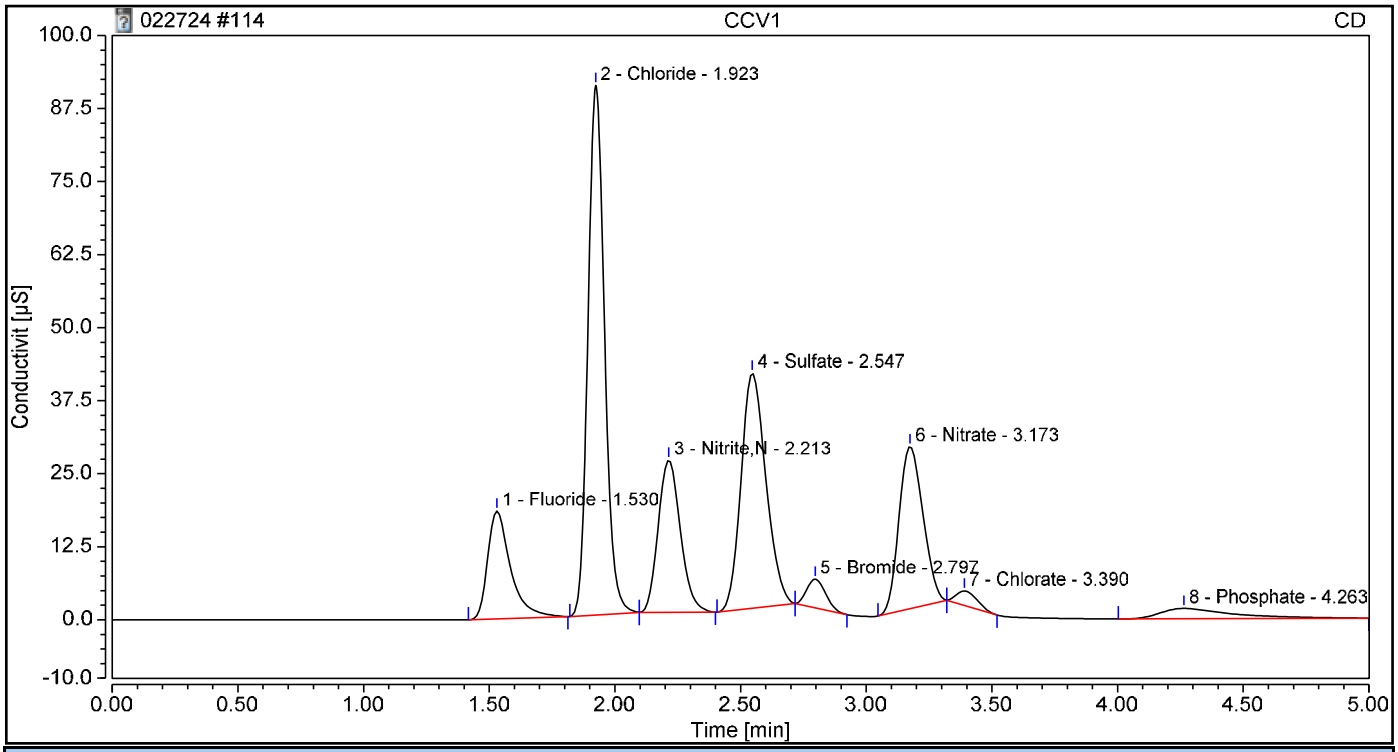
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Nitrite,N	2.227	0.010	0.083	73.45	80.49	0.0266
2	Sulfate	2.563	0.004	0.020	26.55	19.51	0.1598
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**0.014**	**0.104**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCV1**	*Run Time (min):*	**5.00**
Vial Number:	**R3**	*Injection Volume:*	**5.00**
Injection Type:	**Unknown**	*Channel:*	**CD**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**27/Feb/24 19:47**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

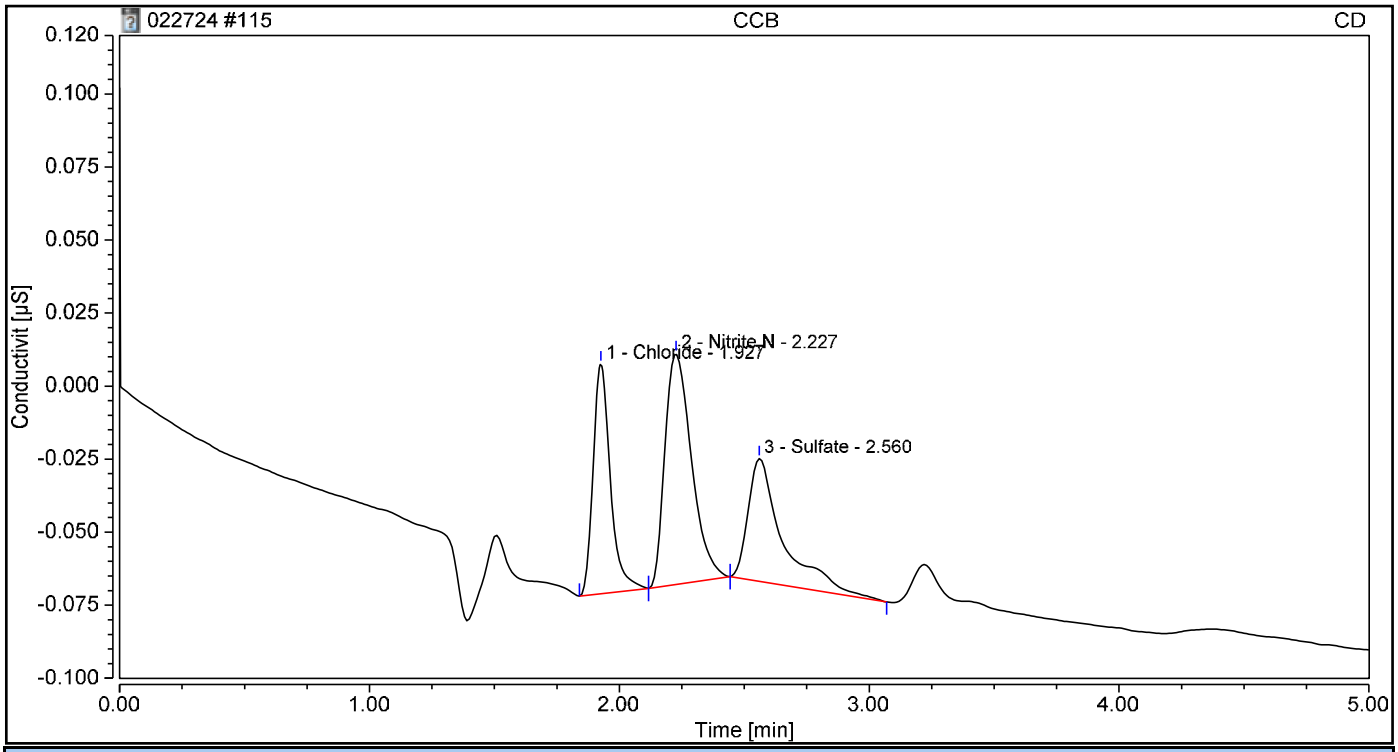
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
1	Fluoride	1.530	1.946	18.441	9.51	8.69	10.0553
2	Chloride	1.923	6.900	90.629	33.73	42.70	48.3880
3	Nitrite,N	2.213	2.675	26.034	13.08	12.27	9.5375
4	Sulfate	2.547	4.611	40.254	22.54	18.97	49.0690
5	Bromide	2.797	0.430	4.923	2.10	2.32	9.9078
6	Nitrate	3.173	3.068	27.742	14.99	13.07	9.5694
7	Chlorate	3.390	0.240	2.454	1.17	1.16	8.9492
8	Phosphate	4.263	0.589	1.774	2.88	0.84	n.a.
Total:			**20.459**	**212.252**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCB**	*Run Time (min):*	**5.00**
Vial Number:	**R7**	*Injection Volume:*	**5.00**
Injection Type:	**Unknown**	*Channel:*	**CD**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**27/Feb/24 19:53**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

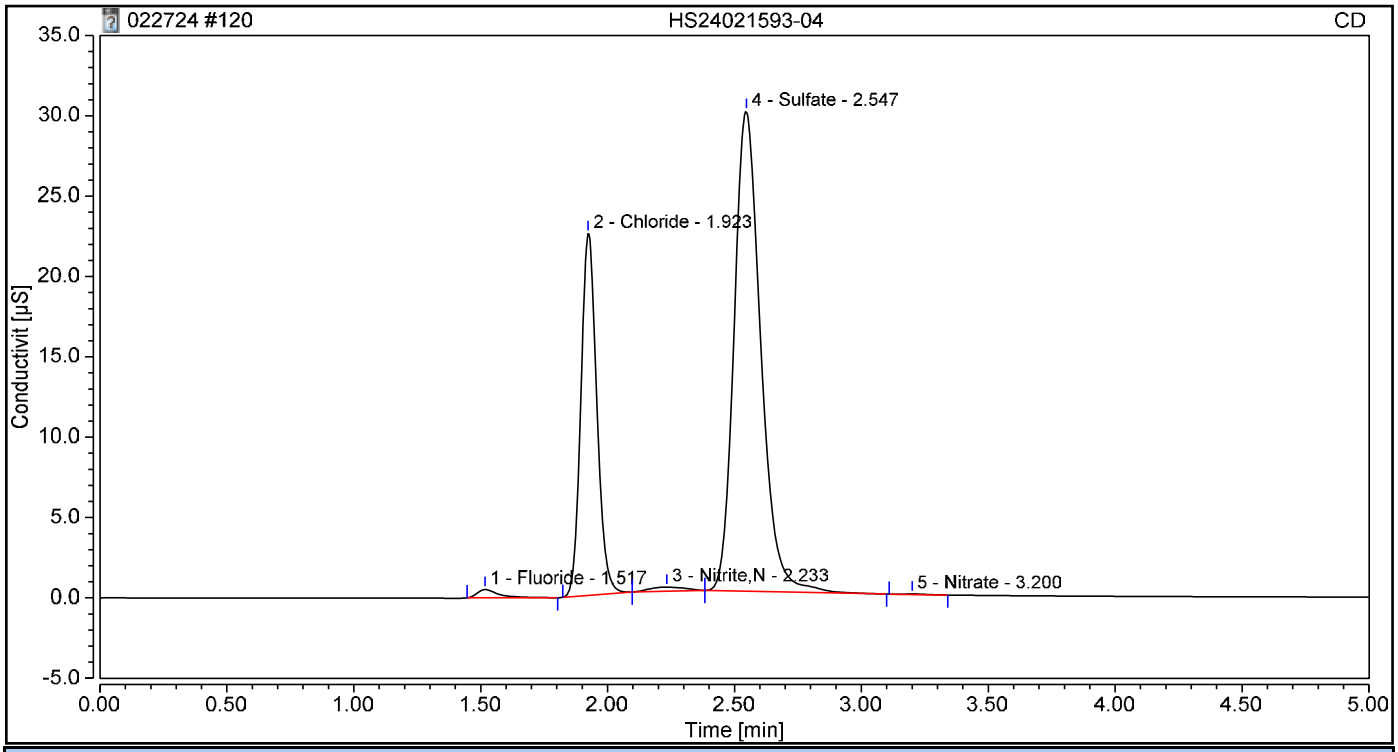
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Chloride	1.927	0.006	0.079	27.60	39.39	0.0637
2	Nitrite,N	2.227	0.010	0.079	42.83	39.57	0.0254
3	Sulfate	2.560	0.007	0.042	29.57	21.04	0.1930
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**0.023**	**0.200**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**HS24021593-04**	*Run Time (min):*	**5.00**
Vial Number:	**BA5**	*Injection Volume:*	**5.00**
Injection Type:	**Unknown**	*Channel:*	**CD**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**27/Feb/24 20:28**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

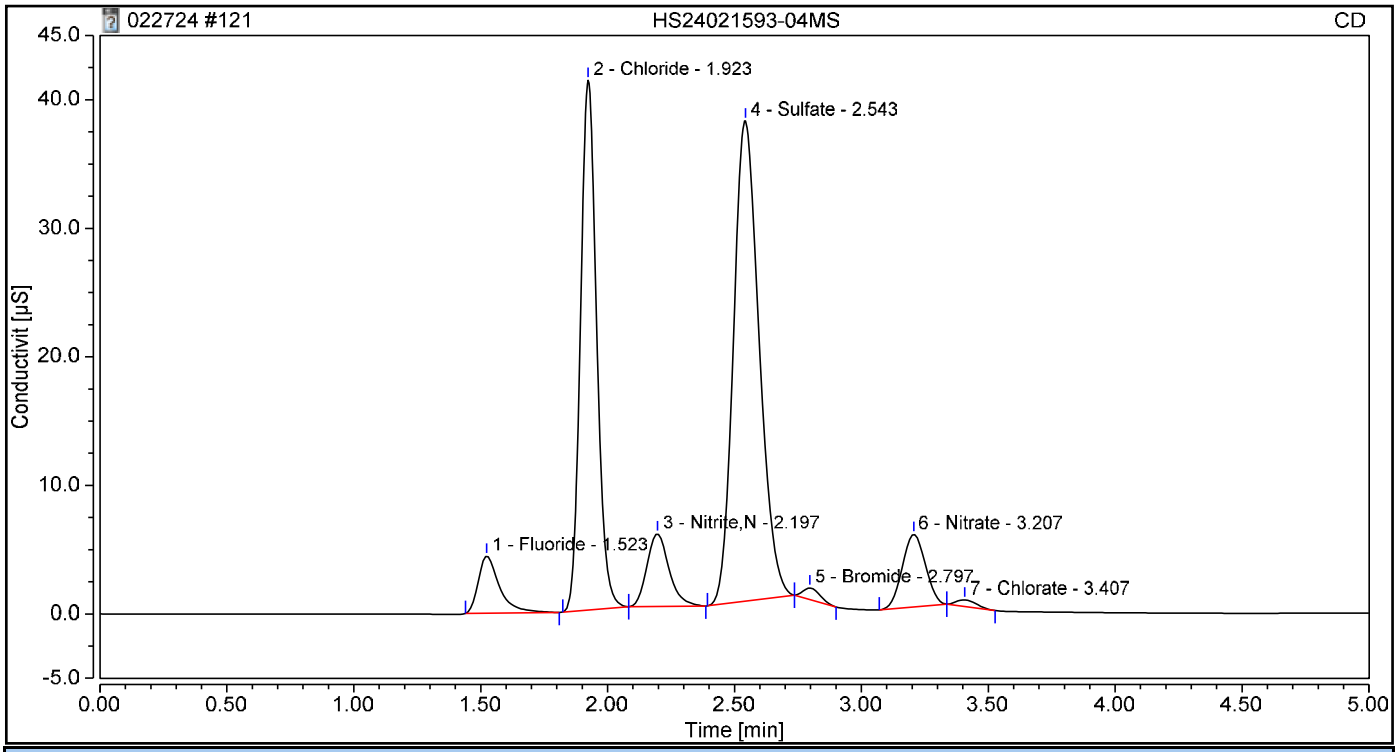
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
1	Fluoride	1.517	0.051	0.518	0.94	0.97	0.3072
2	Chloride	1.923	1.648	22.526	30.63	42.34	11.5691
3	Nitrite,N	2.233	0.042	0.259	0.79	0.49	0.1308
4	Sulfate	2.547	3.636	29.869	67.59	56.14	38.8739
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Nitrate	3.200	0.003	0.028	0.06	0.05	0.0175
n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**5.379**	**53.201**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**HS24021593-04MS**	*Run Time (min):*	**5.00**
Vial Number:	**BA6**	*Injection Volume:*	**5.00**
Injection Type:	**Unknown**	*Channel:*	**CD**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**27/Feb/24 20:34**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

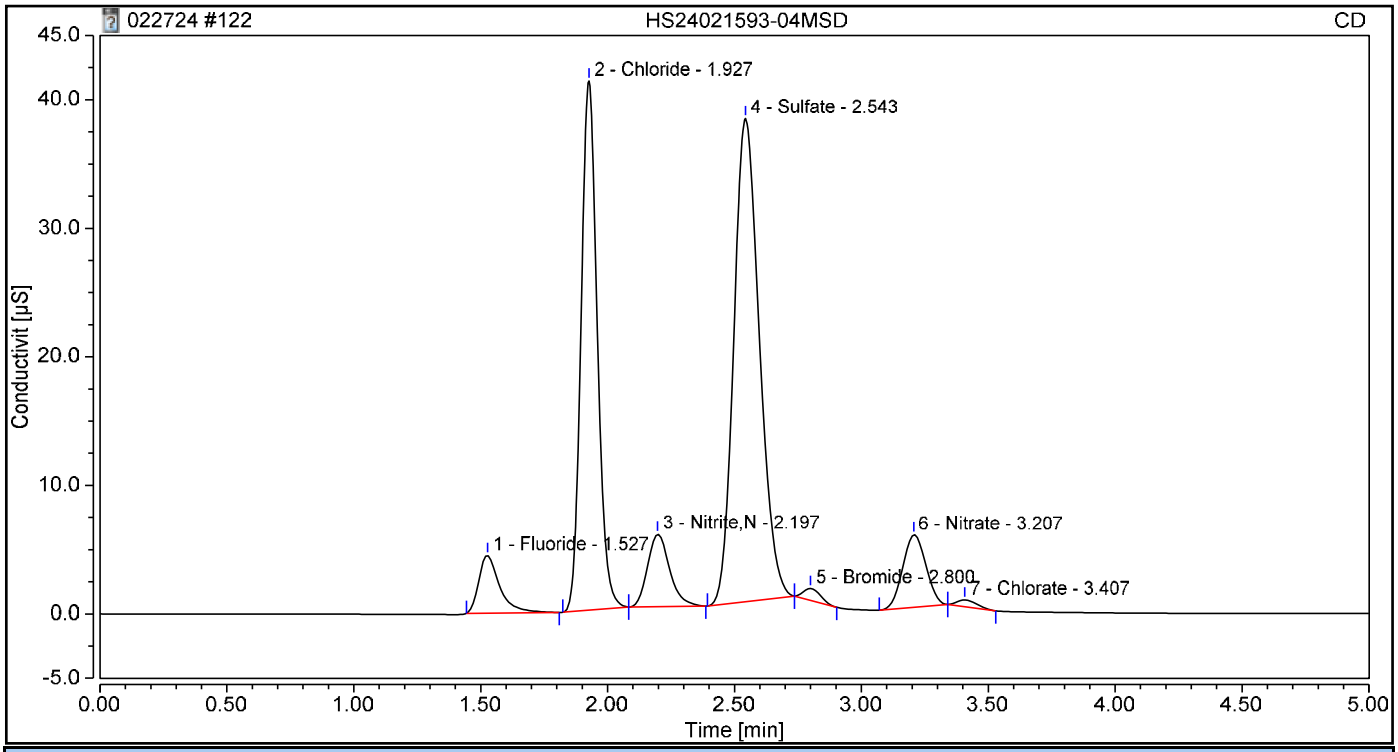
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
1	Fluoride	1.523	0.431	4.438	4.72	4.64	2.2646
2	Chloride	1.923	3.054	41.215	33.41	43.06	21.4259
3	Nitrite,N	2.197	0.569	5.645	6.23	5.90	1.8623
4	Sulfate	2.543	4.372	37.364	47.83	39.04	46.5771
5	Bromide	2.797	0.070	0.894	0.77	0.93	1.7227
6	Nitrate	3.207	0.597	5.639	6.53	5.89	1.8691
7	Chlorate	3.407	0.048	0.520	0.52	0.54	1.7503
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**9.141**	**95.714**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**HS24021593-04MSD**	*Run Time (min):*	**5.00**
Vial Number:	**BA7**	*Injection Volume:*	**5.00**
Injection Type:	**Unknown**	*Channel:*	**CD**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**27/Feb/24 20:40**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

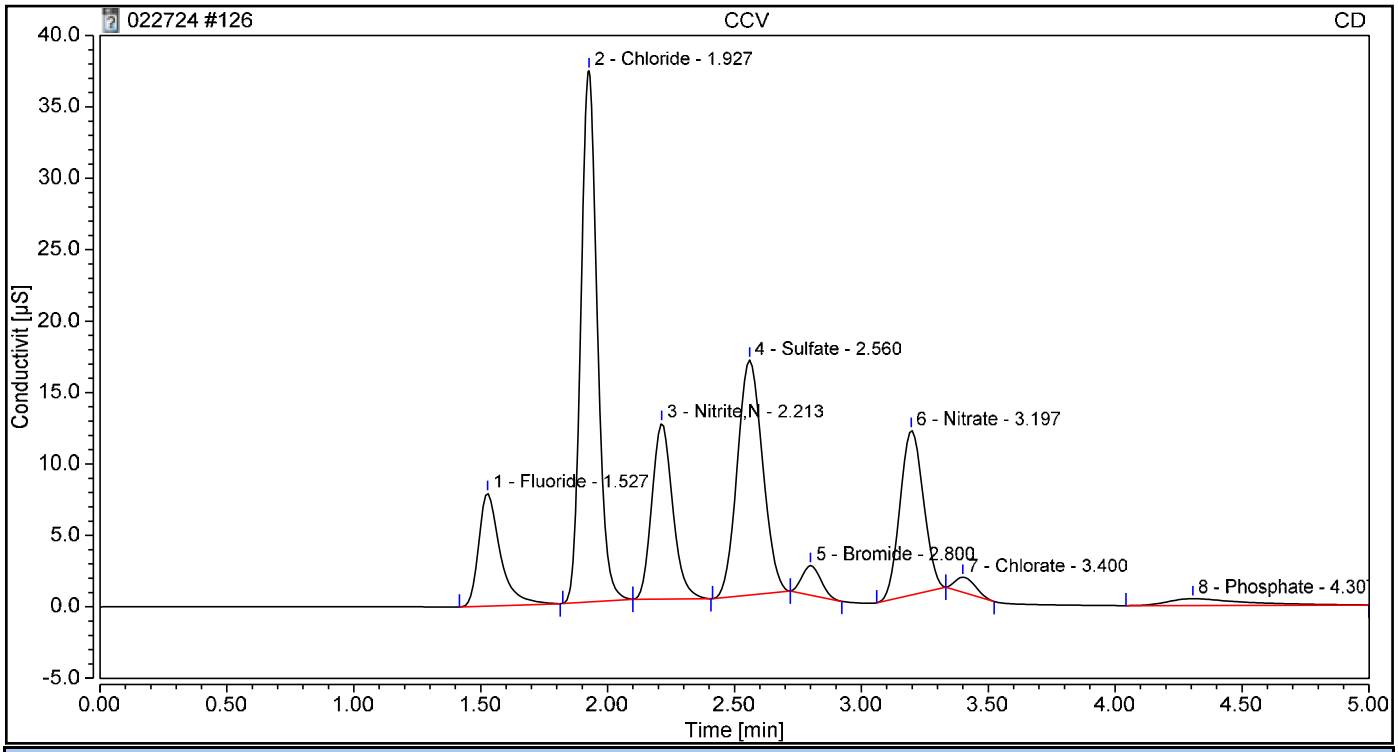
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
1	Fluoride	1.527	0.431	4.488	4.71	4.68	2.2634
2	Chloride	1.927	3.052	41.173	33.36	42.90	21.4122
3	Nitrite,N	2.197	0.568	5.642	6.21	5.88	1.8596
4	Sulfate	2.543	4.380	37.587	47.88	39.16	46.6629
5	Bromide	2.800	0.073	0.933	0.80	0.97	1.7951
6	Nitrate	3.207	0.596	5.631	6.52	5.87	1.8658
7	Chlorate	3.407	0.048	0.518	0.52	0.54	1.7551
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**9.148**	**95.973**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCV**	*Run Time (min):*	**5.00**
Vial Number:	**R1**	*Injection Volume:*	**5.00**
Injection Type:	**Unknown**	*Channel:*	**CD**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**27/Feb/24 21:10**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

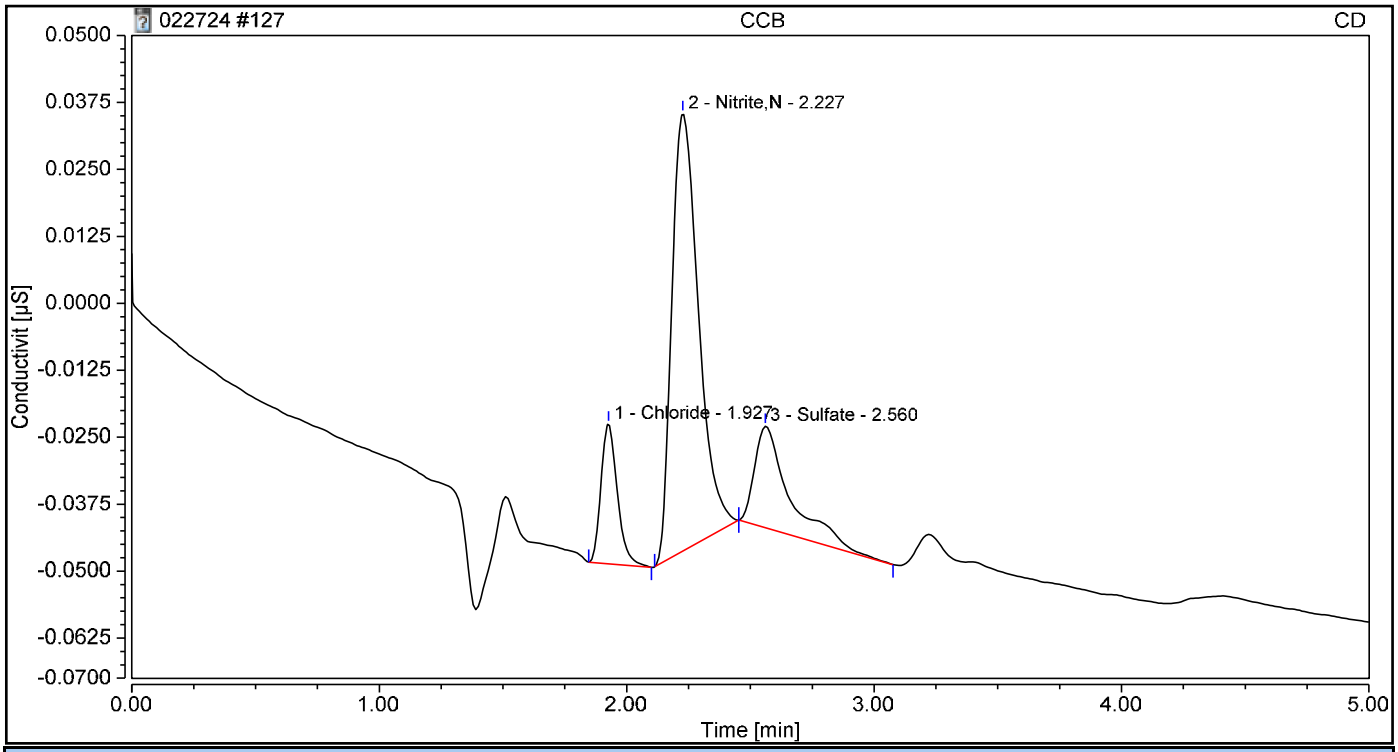
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
1	Fluoride	1.527	0.780	7.895	9.35	8.87	4.0598
2	Chloride	1.927	2.805	37.199	33.62	41.80	19.6814
3	Nitrite,N	2.213	1.178	12.320	14.13	13.84	3.9479
4	Sulfate	2.560	1.898	16.451	22.76	18.49	20.5032
5	Bromide	2.800	0.180	2.078	2.16	2.34	4.3168
6	Nitrate	3.197	1.236	11.518	14.82	12.94	3.8606
7	Chlorate	3.400	0.099	1.052	1.19	1.18	3.6512
8	Phosphate	4.307	0.165	0.474	1.97	0.53	n.a.
Total:			**8.342**	**88.988**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCB**	*Run Time (min):*	**5.00**
Vial Number:	**R4**	*Injection Volume:*	**5.00**
Injection Type:	**Unknown**	*Channel:*	**CD**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**27/Feb/24 21:22**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Chloride	1.927	0.002	0.026	13.04	20.60	0.0338
2	Nitrite,N	2.227	0.010	0.082	66.55	64.45	0.0269
3	Sulfate	2.560	0.003	0.019	20.40	14.95	0.1541
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**0.015**	**0.127**	**100.00**	**100.00**	

HS24021563 Wetchem TOC_W 5310B

ALS WO# HS24021563

C:\TOC-L\Data\2024_01_03_001.tlx

	Analysis	Sample Nam	Sample ID	Origin	Result	Status	Date / Time	Vial
1	NPOC	CAL	3100607917	01.03.2024.		Completed	1/3/2024 12:51:	1, 2, 3, 4, 5,
2	NPOC	ICV	3100607901	01.03.2024.	NPOC:9.85	Completed	1/3/2024 1:06:0	8
3	NPOC	ICB		01.03.2024.	NPOC:0.02	Completed	1/3/2024 1:18:2	9

TOC-Control L Report

2024_01_03_001.tlx

Instr.Information

Instrument Options	TOC/ASI/IC Unit/
Catalyst	Regular Sensitivity

Cal. Curve

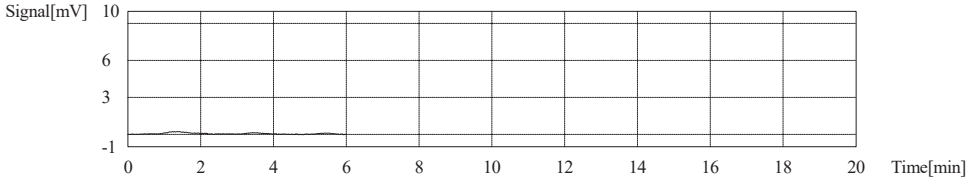
Sample Name:	CAL
Sample ID:	3100607917
Cal. Curve:	01.03.2024.2024_01_03_11_09_20.cal
Status	Completed

Type	Anal.
Standard	NPOC

Conc: 0.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	0.6144	50uL	1.000	*******		1/3/2024 11:17:40 AM
2	0.2411	50uL	1.000	*******		1/3/2024 11:19:49 AM
3	0.1701	50uL	1.000	*******		1/3/2024 11:21:56 AM

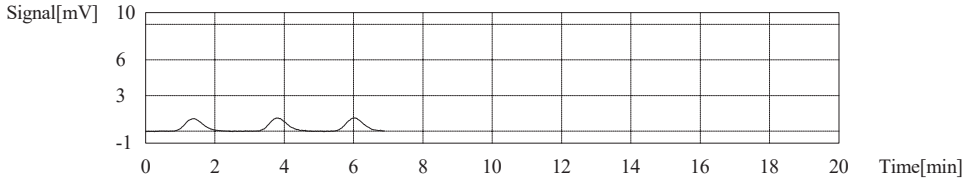
Acid Add.	1.500%
Sparge Gas Flow	80mL/min
Sp. Time	90.00sec
Mean Area	0.3419



Conc: 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	3.920	50uL	1.000	*******		1/3/2024 11:30:37 AM
2	3.717	50uL	1.000	*******		1/3/2024 11:33:01 AM
3	3.946	50uL	1.000	*******		1/3/2024 11:35:32 AM

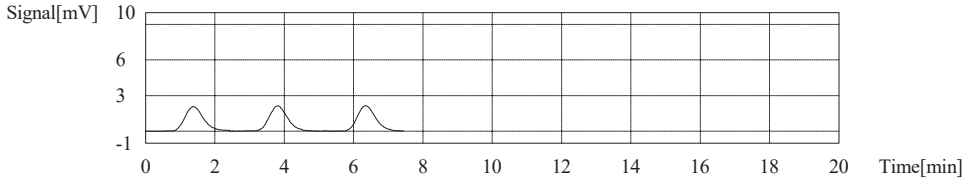
Acid Add.	1.500%
Sparge Gas Flow	80mL/min
Sp. Time	90.00sec
Mean Area	3.861



Conc: 2.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	7.396	50uL	1.000	*******		1/3/2024 11:44:12 AM
2	7.846	50uL	1.000	*******		1/3/2024 11:47:00 AM
3	8.019	50uL	1.000	*******		1/3/2024 11:49:42 AM

Acid Add.	1.500%
Sparge Gas Flow	80mL/min
Sp. Time	90.00sec
Mean Area	7.754



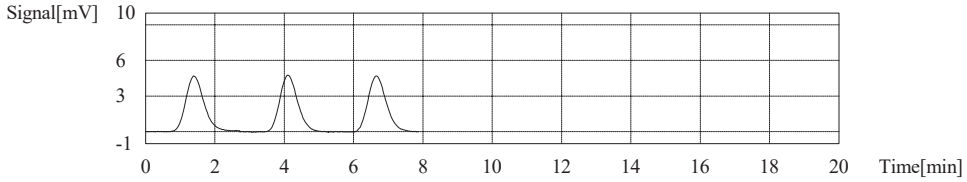
TOC-Control L Report

2024_01_03_001.tlx

Conc: 5.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	16.93	50uL	1.000	*******		1/3/2024 11:58:40 AM
2	17.38	50uL	1.000	*******		1/3/2024 12:01:28 PM
3	17.53	50uL	1.000	*******		1/3/2024 12:04:17 PM

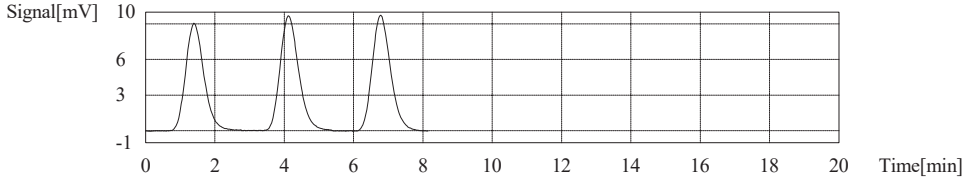
Acid Add. 1.500%
Sparge Gas Flow 80mL/min
Sp. Time 90.00sec
Mean Area 17.28



Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	33.38	50uL	1.000	*******		1/3/2024 12:13:18 PM
2	36.15	50uL	1.000	*******		1/3/2024 12:16:09 PM
3	36.41	50uL	1.000	*******		1/3/2024 12:19:09 PM

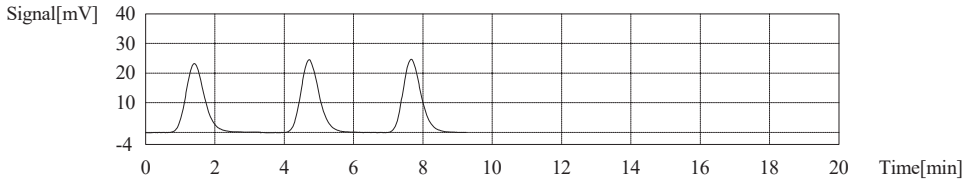
Acid Add. 1.500%
Sparge Gas Flow 80mL/min
Sp. Time 90.00sec
Mean Area 35.31



Conc: 25.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	87.77	50uL	1.000	*******		1/3/2024 12:28:43 PM
2	91.20	50uL	1.000	*******		1/3/2024 12:31:56 PM
3	90.77	50uL	1.000	*******		1/3/2024 12:35:10 PM

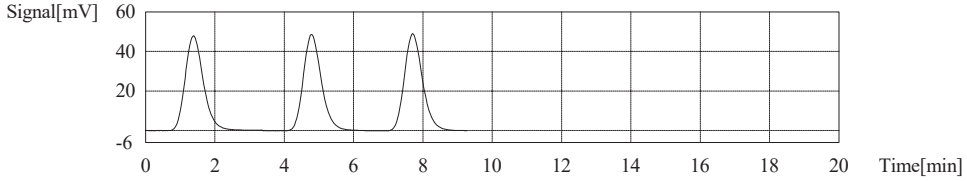
Acid Add. 1.500%
Sparge Gas Flow 80mL/min
Sp. Time 90.00sec
Mean Area 89.91



Conc: 50.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	177.2	50uL	1.000	*******		1/3/2024 12:44:48 PM
2	177.8	50uL	1.000	*******		1/3/2024 12:47:59 PM
3	181.4	50uL	1.000	*******		1/3/2024 12:51:11 PM

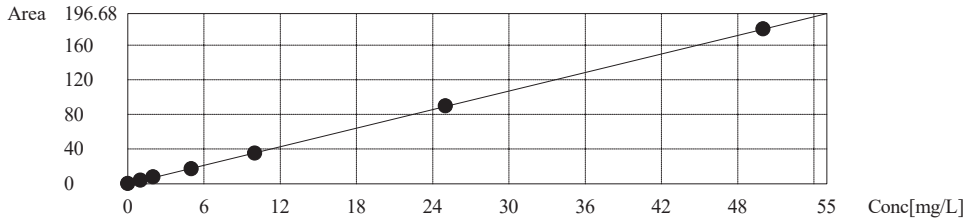
Acid Add. 1.500%
Sparge Gas Flow 80mL/min
Sp. Time 90.00sec
Mean Area 178.8



TOC-Control L Report

2024_01_03_001.tlx

Slope:	3.575
Intercept	0.000
r^2	0.9999
r	1.0000
RSE(%)	N/A
Zero Shift	Yes



Sample

Sample Name:	ICV
Sample ID:	3100607901
Origin:	01.03.2024.cal
Status	Completed
Chk. Result	

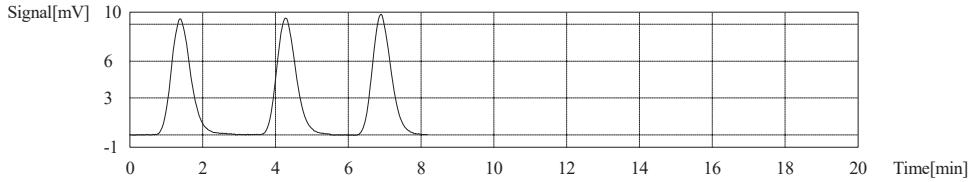
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.858mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	35.20	9.847mg/L	50uL	1.000		01.03.2024.2024_01_03_11_09_20.cal	1/3/2024 1:00:20 PM
2	34.96	9.780mg/L	50uL	1.000		01.03.2024.2024_01_03_11_09_20.cal	1/3/2024 1:03:11 PM
3	35.56	9.947mg/L	50uL	1.000		01.03.2024.2024_01_03_11_09_20.cal	1/3/2024 1:06:04 PM

Mean Area	35.24
Mean Conc.	9.858mg/L



Sample

Sample Name:	ICB
Sample ID:	
Origin:	01.03.2024.cal
Status	Completed
Chk. Result	

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.02773mg/L

1. Det

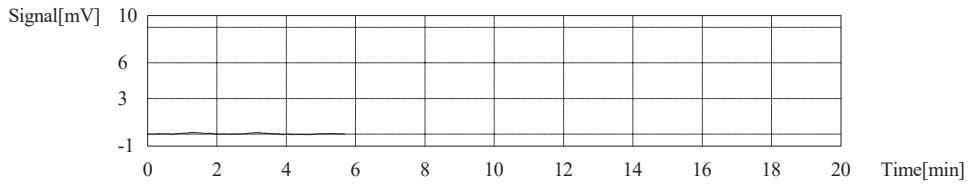
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.000	0.000mg/L	50uL	1.000		01.03.2024.2024_01_03_11_09_20.cal	1/3/2024 1:14:13 PM
2	0.1391	0.03891mg/L	50uL	1.000		01.03.2024.2024_01_03_11_09_20.cal	1/3/2024 1:16:21 PM
3	0.1583	0.04428mg/L	50uL	1.000		01.03.2024.2024_01_03_11_09_20.cal	1/3/2024 1:18:28 PM

TOC-Control L Report

2024_01_03_001.tlx

Mean Area	0.09913
Mean Conc.	0.02773mg/L



C:\TOC-L\Data\2024_03_10_001.tlx

	Type	Analysis	Sample Name	Sample ID	Origin	Manual Diluti
1	Unknown	NPOC	CCV	325100212	01.03.2024.cal	1.000
2	Unknown	NPOC	CCB		01.03.2024.cal	1.000
3	Unknown	NPOC	MBLK-03092024		01.03.2024.cal	1.000
4	Unknown	NPOC	LCS-03092024		01.03.2024.cal	1.000
5	Unknown	NPOC	LCSD-03092024		01.03.2024.cal	1.000
6	Unknown	NPOC	HS24020427-01		01.03.2024.cal	1.000
7	Unknown	NPOC	HS24020427-02		01.03.2024.cal	1.000
8	Unknown	NPOC	HS24021790-04DF10		01.03.2024.cal	1.000
9	Unknown	NPOC	HS24030099-02		01.03.2024.cal	1.000
10	Unknown	NPOC	HS24030102-01		01.03.2024.cal	1.000
11	Unknown	NPOC	HS24030395-01		01.03.2024.cal	1.000
12	Unknown	NPOC	HS24030395-02DF5		01.03.2024.cal	1.000
13	Unknown	NPOC	CCV	325100212	01.03.2024.cal	1.000
14	Unknown	NPOC	CCB		01.03.2024.cal	1.000
15	Unknown	NPOC	HS24021563-02		01.03.2024.cal	1.000
16	Unknown	NPOC	HS24021563-02MS		01.03.2024.cal	1.000
17	Unknown	NPOC	HS24021563-02MSD		01.03.2024.cal	1.000
18	Unknown	NPOC	HS24021563-05		01.03.2024.cal	1.000
19	Unknown	NPOC	HS24021563-06		01.03.2024.cal	1.000
20	Unknown	NPOC	CCV	325100212	01.03.2024.cal	1.000
21	Unknown	NPOC	CCB		01.03.2024.cal	1.000
22	Unknown	NPOC	MBLK-03092024		01.03.2024.cal	1.000
23	Unknown	NPOC	LCS-03092024		01.03.2024.cal	1.000
24	Unknown	NPOC	LCSD-03092024		01.03.2024.cal	1.000
25	Unknown	NPOC	HS24030385-01		01.03.2024.cal	1.000
26	Unknown	NPOC	HS24021667-01		01.03.2024.cal	1.000
27	Unknown	NPOC	HS24021667-01MS		01.03.2024.cal	1.000
28	Unknown	NPOC	HS24021703-01		01.03.2024.cal	1.000
29	Unknown	NPOC	HS24021703-02		01.03.2024.cal	1.000
30	Unknown	NPOC	HS24021703-03		01.03.2024.cal	1.000
31	Unknown	NPOC	HS24030082-02		01.03.2024.cal	1.000
32	Unknown	NPOC	CCV	325100212	01.03.2024.cal	1.000
33	Unknown	NPOC	CCB		01.03.2024.cal	1.000
34	Unknown	NPOC	HS24030225-01		01.03.2024.cal	1.000
35	Unknown	NPOC	HS24030276-01		01.03.2024.cal	1.000
36	Unknown	NPOC	HS24030394-01		01.03.2024.cal	1.000
37	Unknown	NPOC	HS24030370-07DF10		01.03.2024.cal	1.000
38	Unknown	NPOC	CCV	325100212	01.03.2024.cal	1.000
39	Unknown	NPOC	CCB		01.03.2024.cal	1.000
40	Unknown	NPOC	MBLK-03092024		01.03.2024.cal	1.000
41	Unknown	NPOC	LCS-03092024		01.03.2024.cal	1.000
42	Unknown	NPOC	LCSD-03092024		01.03.2024.cal	1.000
43	Unknown	NPOC	HS24030370-10DF10		01.03.2024.cal	1.000
44	Unknown	NPOC	HS24030370-12DF10		01.03.2024.cal	1.000
45	Unknown	NPOC	HS24030397-01DF10		01.03.2024.cal	1.000
46	Unknown	NPOC	HS24030397-01MSDF10		01.03.2024.cal	1.000
47	Unknown	NPOC	HS24030397-02DF10		01.03.2024.cal	1.000
48	Unknown	NPOC	HS24030397-03DF10		01.03.2024.cal	1.000
49	Unknown	NPOC	HS24030397-04DF10		01.03.2024.cal	1.000
50	Unknown	NPOC	CCV	325100212	01.03.2024.cal	1.000
51	Unknown	NPOC	CCB		01.03.2024.cal	1.000
52	Unknown	NPOC	HS24030397-05DF10		01.03.2024.cal	1.000
53	Unknown	NPOC	HS24030397-06DF10		01.03.2024.cal	1.000

C:\TOC-L\Data\2024_03_10_001.tlx

	Result	Notes	Status	Date / Time	Vial
1	NPOC:25.0		Completed	3/10/2024 1	1
2	NPOC:0.14		Completed	3/10/2024 1	2
3	NPOC:0.05		Completed	3/10/2024 1	3
4	NPOC:10.5		Completed	3/10/2024 1	4
5	NPOC:10.4		Completed	3/10/2024 1	5
6	NPOC:0.46		Completed	3/10/2024 1	6
7	NPOC:0.38		Completed	3/10/2024 1	7
8	NPOC:14.1		Completed	3/10/2024 1	8
9	NPOC:11.4		Completed	3/10/2024 1:	9
10	NPOC:11.2		Completed	3/10/2024 1:	10
11	NPOC:7.96		Completed	3/10/2024 1:	11
12	NPOC:1.78		Completed	3/10/2024 1:	12
13	NPOC:24.5		Completed	3/10/2024 2:	1
14	NPOC:0.13		Completed	3/10/2024 2:	2
15	NPOC:8.69		Completed	3/10/2024 3:	13
16	NPOC:17.2		Completed	3/10/2024 3:	14
17	NPOC:17.1		Completed	3/10/2024 3:	15
18	NPOC:2.59		Completed	3/10/2024 4:	16
19	NPOC:7.39		Completed	3/10/2024 4:	17
20	NPOC:25.5		Completed	3/10/2024 5:	1
21	NPOC:0.07		Completed	3/10/2024 5:	2
22	NPOC:0.03		Completed	3/10/2024 5:	3
23	NPOC:10.6		Completed	3/10/2024 5:	4
24	NPOC:10.7		Completed	3/10/2024 5:	5
25	NPOC:0.07		Completed	3/10/2024 6:	18
26	NPOC:17.9		Completed	3/10/2024 6:	19
27	NPOC:30.6		Completed	3/10/2024 6:	20
28	NPOC:8.06		Completed	3/10/2024 6:	21
29	NPOC:7.62		Completed	3/10/2024 7:	22
30	NPOC:7.38		Completed	3/10/2024 7:	23
31	NPOC:2.11		Completed	3/10/2024 7:	24
32	NPOC:25.3		Completed	3/10/2024 8:	25
33	NPOC:0.05		Completed	3/10/2024 8:	26
34	NPOC:11.5		Completed	3/10/2024 8:	27
35	NPOC:44.3		Completed	3/10/2024 9:	28
36	NPOC:1.34		Completed	3/10/2024 9:	29
37	NPOC:0.24		Completed	3/10/2024 9:	30
38	NPOC:25.2		Completed	3/10/2024 1	25
39	NPOC:0.30		Completed	3/10/2024 1	26
40	NPOC:0.08		Completed	3/10/2024 1	3
41	NPOC:10.5		Completed	3/10/2024 1	4
42	NPOC:10.8		Completed	3/10/2024 1	5
43	NPOC:1.84		Completed	3/10/2024 1	31
44	NPOC:14.3		Completed	3/10/2024 1	32
45	NPOC:0.91		Completed	3/11/2024 1	33
46	NPOC:11.0		Completed	3/11/2024 1	34
47	NPOC:3.48		Completed	3/11/2024 1	35
48	NPOC:6.86		Completed	3/11/2024 1	36
49	NPOC:14.8		Completed	3/11/2024 1:	37
50	NPOC:25.7		Completed	3/11/2024 1:	25
51	NPOC:0.24		Completed	3/11/2024 2:	26
52	NPOC:8.95		Completed	3/11/2024 2:	38
53	NPOC:1.91		Completed	3/11/2024 2:	39

C:\TOC-L\Data\2024_03_10_001.tlx

	Type	Analysis	Sample Name	Sample ID	Origin	Manual Diluti
54	Unknown	NPOC	HS24030397-07DF10		01.03.2024.cal	1.000
55	Unknown	NPOC	HS24030397-08DF20		01.03.2024.cal	1.000
56	Unknown	NPOC	CCV	325100212	01.03.2024.cal	1.000
57	Unknown	NPOC	CCB		01.03.2024.cal	1.000
58	Unknown	NPOC	MBLK-03092024		01.03.2024.cal	1.000
59	Unknown	NPOC	LCS-03092024		01.03.2024.cal	1.000
60	Unknown	NPOC	LCSD-03092024		01.03.2024.cal	1.000
61	Unknown	NPOC	HS24030397-09DF10		01.03.2024.cal	1.000
62	Unknown	NPOC	HS24030231-01		01.03.2024.cal	1.000
63	Unknown	NPOC	HS24030265-01		01.03.2024.cal	1.000
64	Unknown	NPOC	HS24030295-01		01.03.2024.cal	1.000
65	Unknown	NPOC	HS24030407-01		01.03.2024.cal	1.000
66	Unknown	NPOC	HS24030105-01		01.03.2024.cal	1.000
67	Unknown	NPOC	HS24030379-07		01.03.2024.cal	1.000
68	Unknown	NPOC	CCV	325100212	01.03.2024.cal	1.000
69	Unknown	NPOC	CCB		01.03.2024.cal	1.000
70	Unknown	NPOC	HS24030311-01		01.03.2024.cal	1.000
71	Unknown	NPOC	HS24030311-01MS		01.03.2024.cal	1.000
72	Unknown	NPOC	HS24030311-02		01.03.2024.cal	1.000
73	Unknown	NPOC	HS24030311-03		01.03.2024.cal	1.000
74	Unknown	NPOC	CCV	325100212	01.03.2024.cal	1.000
75	Unknown	NPOC	CCB		01.03.2024.cal	1.000

	Result	Notes	Status	Date / Time	Vial
54	NPOC:23.6		Completed	3/11/2024 2:	40
55	NPOC:25.5		Completed	3/11/2024 3:	41
56	NPOC:25.8		Completed	3/11/2024 3:	42
57	NPOC:0.16		Completed	3/11/2024 4:	43
58	NPOC:0.05		Completed	3/11/2024 4:	3
59	NPOC:10.7		Completed	3/11/2024 4:	4
60	NPOC:10.7		Completed	3/11/2024 4:	5
61	NPOC:8.05		Completed	3/11/2024 5:	44
62	NPOC:7.45		Completed	3/11/2024 5:	45
63	NPOC:5.30		Completed	3/11/2024 5:	46
64	NPOC:6.81		Completed	3/11/2024 5:	47
65	NPOC:10.8		Completed	3/11/2024 6:	48
66	NPOC:16.3		Completed	3/11/2024 6:	49
67	NPOC:7.20		Completed	3/11/2024 6:	50
68	NPOC:25.4		Completed	3/11/2024 7:	42
69	NPOC:0.12		Completed	3/11/2024 7:	43
70	NPOC:3.11		Completed	3/11/2024 7:	51
71	NPOC:11.1		Completed	3/11/2024 8:	52
72	NPOC:3.53		Completed	3/11/2024 8:	53
73	NPOC:0.18		Completed	3/11/2024 8:	54
74	NPOC:25.1		Completed	3/11/2024 9:	42
75	NPOC:0.20		Completed	3/11/2024 9:	43

TOC-Control L Report

Instr.Information

Instrument Options TOC/ASI/IC Unit/
Catalyst Regular Sensitivity

Sample

Sample Name: CCV
Sample ID: 325100212
Origin: 01.03.2024.cal
Status Completed
Chk. Result

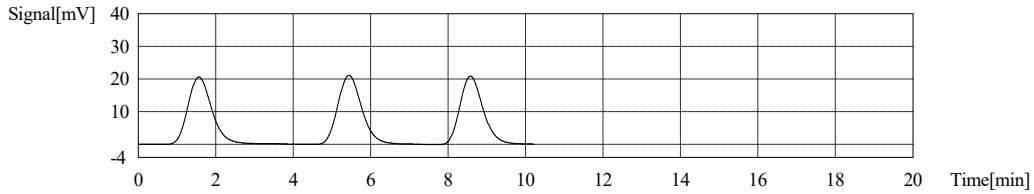
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.04mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	89.17	24.94mg/L	50uL	1.000		01.03.2024.2024_01_03_11_09_20.cal	3/10/2024 10:51:58 AM
2	91.37	25.56mg/L	50uL	1.000		01.03.2024.2024_01_03_11_09_20.cal	3/10/2024 10:55:27 AM
3	88.00	24.62mg/L	50uL	1.000		01.03.2024.2024_01_03_11_09_20.cal	3/10/2024 10:58:50 AM

Mean Area 89.51
Mean Conc. 25.04mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: 01.03.2024.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1467mg/L

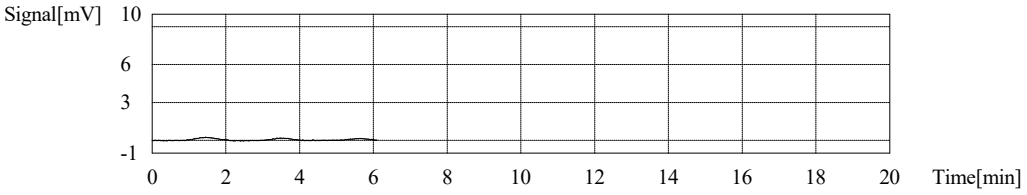
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.7388	0.2067mg/L	50uL	1.000		01.03.2024.2024_01_03_11_09_20.cal	3/10/2024 11:07:10 AM
2	0.4798	0.1342mg/L	50uL	1.000		01.03.2024.2024_01_03_11_09_20.cal	3/10/2024 11:09:31 AM
3	0.3542	0.09908mg/L	50uL	1.000		01.03.2024.2024_01_03_11_09_20.cal	3/10/2024 11:11:40 AM

TOC-Control L Report

Mean Area 0.5243
Mean Conc. 0.1467mg/L



Sample

Sample Name: MBLK-03092024
Sample ID:
Origin: 01.03.2024.cal
Status Completed
Chk. Result

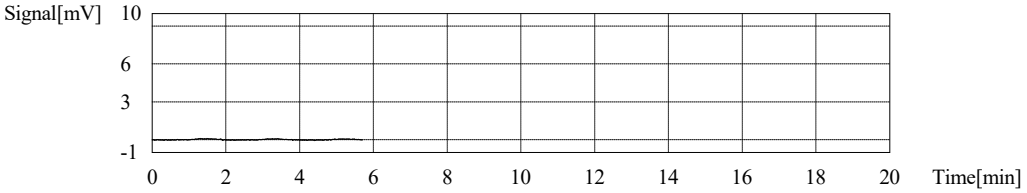
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.05053mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.1970	0.05511mg/L	50uL	1.000		01.03.2024.2024_01_03_11_09_20.cal	3/10/2024 11:19:50 AM
2	0.2258	0.06316mg/L	50uL	1.000		01.03.2024.2024_01_03_11_09_20.cal	3/10/2024 11:21:58 AM
3	0.1191	0.03332mg/L	50uL	1.000		01.03.2024.2024_01_03_11_09_20.cal	3/10/2024 11:24:06 AM

Mean Area 0.1806
Mean Conc. 0.05053mg/L



Sample

Sample Name: LCS-03092024
Sample ID:
Origin: 01.03.2024.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:10.51mg/L

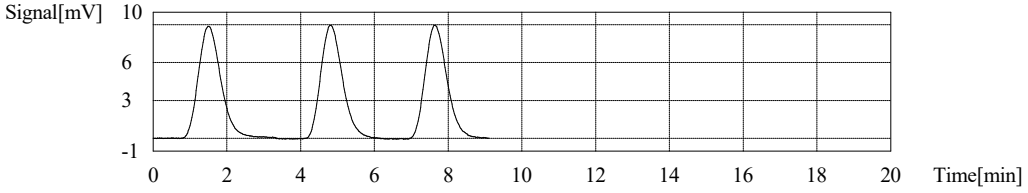
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	37.99	10.63mg/L	50uL	1.000		01.03.2024.2024_01_03_11_09_20.cal	3/10/2024 11:33:41 AM
2	37.20	10.41mg/L	50uL	1.000		01.03.2024.2024_01_03_11_09_20.cal	3/10/2024 11:36:45 AM
3	37.55	10.50mg/L	50uL	1.000		01.03.2024.2024_01_03_11_09_20.cal	3/10/2024 11:39:55 AM

TOC-Control L Report

Mean Area 37.58
Mean Conc. 10.51mg/L



Sample

Sample Name: LCSD-03092024
Sample ID:
Origin: 01.03.2024.cal
Status Completed
Chk. Result

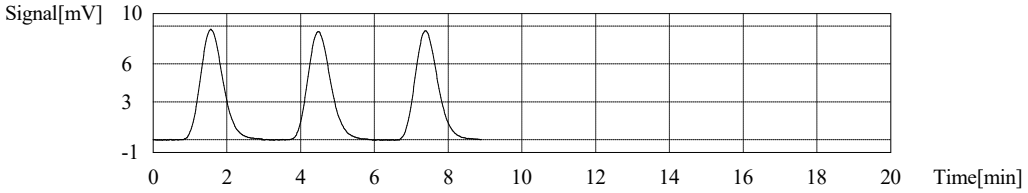
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:10.43mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	37.25	10.42mg/L	50uL	1.000		01.03.2024.2024_01_03_11_09_20.cal	3/10/2024 12:07:10 PM
2	37.14	10.39mg/L	50uL	1.000		01.03.2024.2024_01_03_11_09_20.cal	3/10/2024 12:10:17 PM
3	37.43	10.47mg/L	50uL	1.000		01.03.2024.2024_01_03_11_09_20.cal	3/10/2024 12:13:35 PM

Mean Area 37.27
Mean Conc. 10.43mg/L



Sample

Sample Name: HS24020427-01
Sample ID:
Origin: 01.03.2024.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.4614mg/L

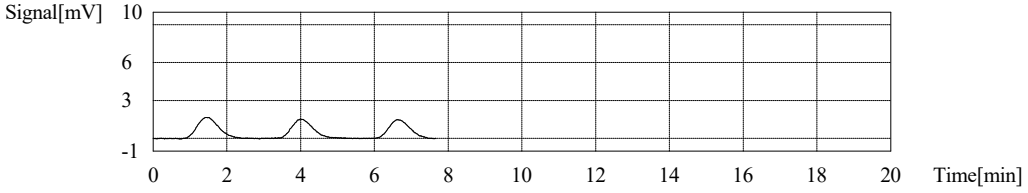
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.832	0.5125mg/L	50uL	1.000		01.03.2024.2024_01_03_11_09_20.cal	3/10/2024 12:22:10 PM
2	1.421	0.3975mg/L	50uL	1.000		01.03.2024.2024_01_03_11_09_20.cal	3/10/2024 12:24:42 PM
3	1.695	0.4741mg/L	50uL	1.000		01.03.2024.2024_01_03_11_09_20.cal	3/10/2024 12:27:12 PM

TOC-Control L Report

Mean Area 6.373
Mean Conc. 1.783mg/L



Sample

Sample Name: CCV
Sample ID: 325100212
Origin: 01.03.2024.cal
Status Completed
Chk. Result

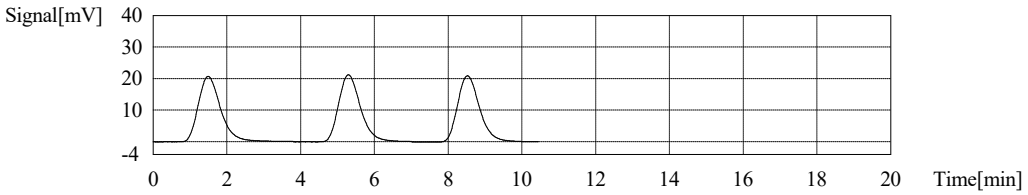
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:24.57mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	87.93	24.60mg/L	50uL	1.000		01.03.2024.2024_01_03_11_09_20.cal	3/10/2024 2:37:22 PM
2	87.87	24.58mg/L	50uL	1.000		01.03.2024.2024_01_03_11_09_20.cal	3/10/2024 2:40:49 PM
3	87.65	24.52mg/L	50uL	1.000		01.03.2024.2024_01_03_11_09_20.cal	3/10/2024 2:44:30 PM

Mean Area 87.82
Mean Conc. 24.57mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: 01.03.2024.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1316mg/L

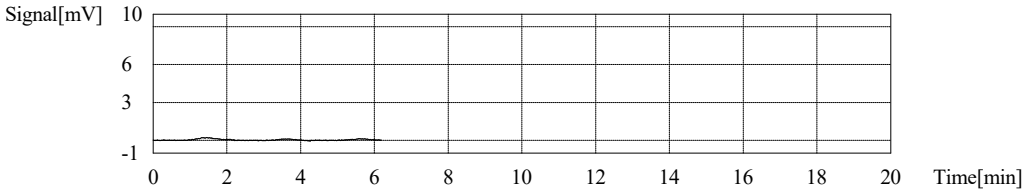
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.6866	0.1921mg/L	50uL	1.000		01.03.2024.2024_01_03_11_09_20.cal	3/10/2024 2:52:57 PM
2	0.4759	0.1331mg/L	50uL	1.000		01.03.2024.2024_01_03_11_09_20.cal	3/10/2024 2:55:14 PM
3	0.2491	0.06968mg/L	50uL	1.000		01.03.2024.2024_01_03_11_09_20.cal	3/10/2024 2:57:22 PM

TOC-Control L Report

Mean Area 0.4705
Mean Conc. 0.1316mg/L



Sample

Sample Name: HS24021563-02
Sample ID:
Origin: 01.03.2024.cal
Status Completed
Chk. Result

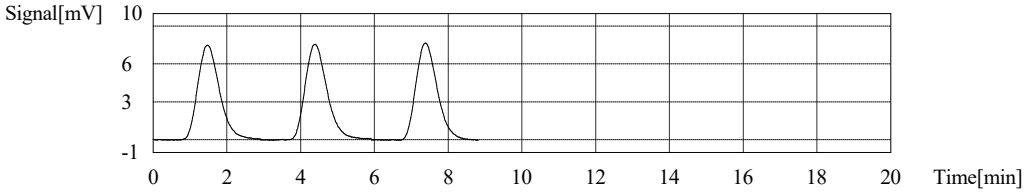
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:8.694mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	30.89	8.641mg/L	50uL	1.000		01.03.2024.2024_01_03_11_09_20.cal	3/10/2024 3:06:39 PM
2	31.02	8.677mg/L	50uL	1.000		01.03.2024.2024_01_03_11_09_20.cal	3/10/2024 3:09:54 PM
3	31.33	8.764mg/L	50uL	1.000		01.03.2024.2024_01_03_11_09_20.cal	3/10/2024 3:13:03 PM

Mean Area 31.08
Mean Conc. 8.694mg/L



Sample

Sample Name: HS24021563-02MS
Sample ID:
Origin: 01.03.2024.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:17.29mg/L

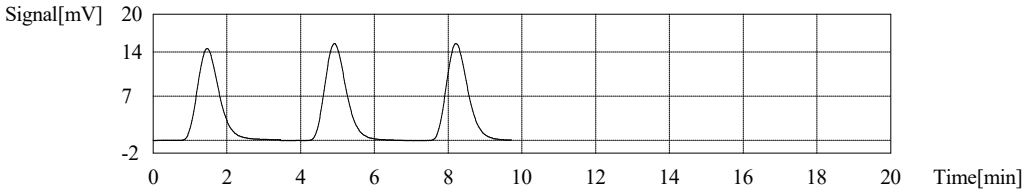
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	60.15	16.83mg/L	50uL	1.000		01.03.2024.2024_01_03_11_09_20.cal	3/10/2024 3:22:45 PM
2	62.63	17.52mg/L	50uL	1.000		01.03.2024.2024_01_03_11_09_20.cal	3/10/2024 3:26:18 PM
3	62.62	17.52mg/L	50uL	1.000		01.03.2024.2024_01_03_11_09_20.cal	3/10/2024 3:29:29 PM

TOC-Control L Report

Mean Area 61.80
Mean Conc. 17.29mg/L



Sample

Sample Name: HS24021563-02MSD
Sample ID:
Origin: 01.03.2024.cal
Status Completed
Chk. Result

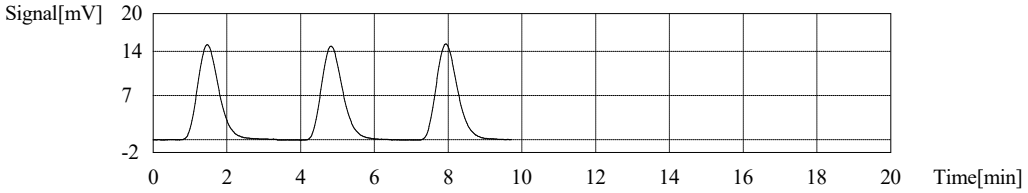
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:17.10mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	60.97	17.06mg/L	50uL	1.000		01.03.2024.2024_01_03_11_09_20.cal	3/10/2024 3:39:06 PM
2	60.21	16.84mg/L	50uL	1.000		01.03.2024.2024_01_03_11_09_20.cal	3/10/2024 3:42:30 PM
3	62.18	17.39mg/L	50uL	1.000		01.03.2024.2024_01_03_11_09_20.cal	3/10/2024 3:46:00 PM

Mean Area 61.12
Mean Conc. 17.10mg/L



Sample

Sample Name: HS24021563-05
Sample ID:
Origin: 01.03.2024.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.596mg/L

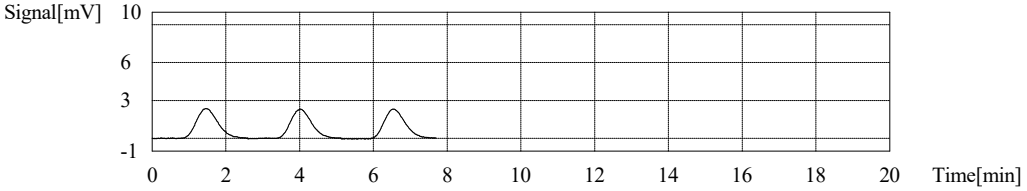
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	9.452	2.644mg/L	50uL	1.000		01.03.2024.2024_01_03_11_09_20.cal	3/10/2024 3:54:51 PM
2	9.047	2.531mg/L	50uL	1.000		01.03.2024.2024_01_03_11_09_20.cal	3/10/2024 3:57:37 PM
3	9.337	2.612mg/L	50uL	1.000		01.03.2024.2024_01_03_11_09_20.cal	3/10/2024 4:00:26 PM

TOC-Control L Report

Mean Area 9.279
Mean Conc. 2.596mg/L



Sample

Sample Name: HS24021563-06
Sample ID:
Origin: 01.03.2024.cal
Status Completed
Chk. Result

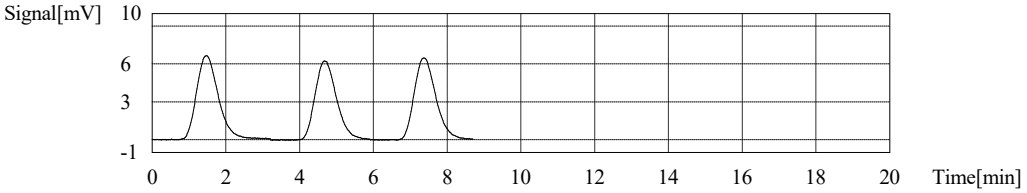
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:7.396mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	27.32	7.642mg/L	50uL	1.000		01.03.2024.2024_01_03_11_09_20.cal	3/10/2024 4:09:54 PM
2	25.44	7.116mg/L	50uL	1.000		01.03.2024.2024_01_03_11_09_20.cal	3/10/2024 4:12:52 PM
3	26.56	7.430mg/L	50uL	1.000		01.03.2024.2024_01_03_11_09_20.cal	3/10/2024 4:15:53 PM

Mean Area 26.44
Mean Conc. 7.396mg/L



Sample

Sample Name: CCV
Sample ID: 325100212
Origin: 01.03.2024.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.57mg/L

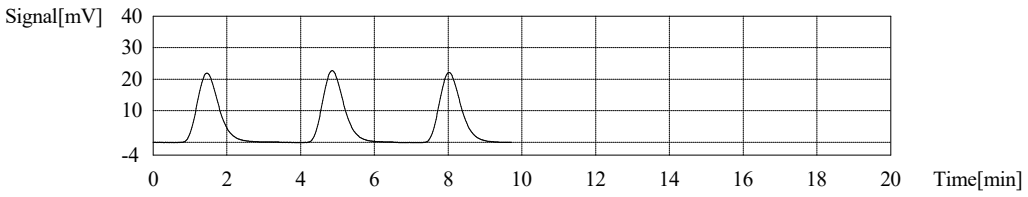
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	90.49	25.31mg/L	50uL	1.000		01.03.2024.2024_01_03_11_09_20.cal	3/10/2024 4:54:35 PM
2	92.67	25.92mg/L	50uL	1.000		01.03.2024.2024_01_03_11_09_20.cal	3/10/2024 4:58:01 PM
3	91.05	25.47mg/L	50uL	1.000		01.03.2024.2024_01_03_11_09_20.cal	3/10/2024 5:01:24 PM

TOC-Control L Report

Mean Area 91.40
Mean Conc. 25.57mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: 01.03.2024.cal
Status Completed
Chk. Result

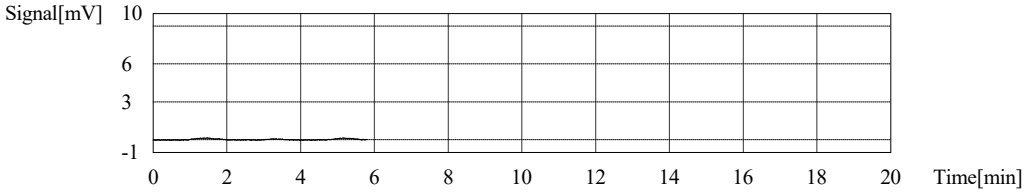
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.07433mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.2672	0.07475mg/L	50uL	1.000		01.03.2024.2024_01_03_11_09_20.cal	3/10/2024 5:09:33 PM
2	0.1094	0.03060mg/L	50uL	1.000		01.03.2024.2024_01_03_11_09_20.cal	3/10/2024 5:11:40 PM
3	0.4205	0.1176mg/L	50uL	1.000		01.03.2024.2024_01_03_11_09_20.cal	3/10/2024 5:13:53 PM

Mean Area 0.2657
Mean Conc. 0.07433mg/L



Sample

Sample Name: MBLK-03092024
Sample ID:
Origin: 01.03.2024.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.03416mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.3664	0.1025mg/L	50uL	1.000		01.03.2024.2024_01_03_11_09_20.cal	3/10/2024 5:22:14 PM
2	0.000	0.000mg/L	50uL	1.000		01.03.2024.2024_01_03_11_09_20.cal	3/10/2024 5:24:22 PM
3	0.000	0.000mg/L	50uL	1.000		01.03.2024.2024_01_03_11_09_20.cal	3/10/2024 5:26:30 PM

HS24021563 Eurofin Lab J162062-1 Std_Tal_L4 Final Report

ALS WO# HS24021563

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: James Guin
ALS Group USA, Corp
10450 Stancliff Rd.
Suite 210
Houston TX 77099

Generated 03/14/2024

JOB DESCRIPTION

HS24021563

JOB NUMBER

410-162062-1

Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster PA 17601

See page two for job notes and contact information.

my EOL

Eurofins Lancaster Laboratories Environment Testing, LLC

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated
03/14/2024

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Eurofins Lancaster Laboratories Environment Testing, LLC

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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Definitions/Glossary

Client: ALS Group USA, Corp
Job ID: 410-162062-1
Project/Site: HS24021563

Qualifiers

GC VOA

Qualifier	Qualifier Description
cn	Refer to Case Narrative for further detail
F1	MS and/or MSD recovery exceeds control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
410-162062-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 2/28/2024 9:40 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.4°C.

GC VOA
Method RSK_175_CO2_D5: The matrix spike / matrix spike duplicate (MS/MSD) recoveries were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits. Samples were reanalyzed and recoveries were outside control limits for one or more analytes. HS24021563-02 46WW02-240226 (410-162062-1)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: ALS Group USA, Corp
Project/Site: HS24021563

Job ID: 410-162062-1

Client Sample ID: HS24021563-02 46WW02-240226 — Lab Sample ID: 410-162062-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon dioxide	100000	F1 cn	12000	5600	ug/L	1		RSK-175	Total/NA

Client Sample ID: HS24021563-05 46WW16-240226 — Lab Sample ID: 410-162062-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon dioxide	46000		12000	5600	ug/L	1		RSK-175	Total/NA

Client Sample ID: HS24021563-06 46WW05-240226 — Lab Sample ID: 410-162062-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon dioxide	210000		12000	5600	ug/L	1		RSK-175	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: ALS Group USA, Corp
Project/Site: HS24021563

Job ID: 410-162062-1

Client Sample ID: HS24021563-02 46WW02-240226

Lab Sample ID: 410-162062-1

Date Collected: 02/26/24 08:15
Matrix: Water
Date Received: 02/28/24 09:40

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	100000	F1 cn	12000	5600	ug/L		03/04/24 10:36	03/04/24 11:49	1

Client Sample ID: HS24021563-05 46WW16-240226

Lab Sample ID: 410-162062-2

Date Collected: 02/26/24 10:35
Matrix: Water
Date Received: 02/28/24 09:40

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	46000		12000	5600	ug/L		03/04/24 10:36	03/04/24 12:40	1

Client Sample ID: HS24021563-06 46WW05-240226

Lab Sample ID: 410-162062-3

Date Collected: 02/26/24 11:20
Matrix: Water
Date Received: 02/28/24 09:40

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	210000		12000	5600	ug/L		03/04/24 10:36	03/04/24 12:47	1

Default Detection Limits

Client: ALS Group USA, Corp
Project/Site: HS24021563

Job ID: 410-162062-1

Method: RSK-175 - Dissolved Gases (GC)

Prep: RSK-175

Analyte	RL	MDL	Units
Carbon dioxide	12000	5600	ug/L

QC Sample Results

Client: ALS Group USA, Corp
Project/Site: HS24021563

Job ID: 410-162062-1

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 410-479323/1-A
Matrix: Water
Analysis Batch: 479281

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 479323

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	<5600		12000	5600	ug/L		03/04/24 10:36	03/04/24 10:41	1

Lab Sample ID: LCS 410-479323/2-A
Matrix: Water
Analysis Batch: 479281

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 479323

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Carbon dioxide			35800	36400		ug/L		102	80 - 122		

Lab Sample ID: 410-162062-1 MS
Matrix: Water
Analysis Batch: 479281

Client Sample ID: HS24021563-02 46WW02-240226
Prep Type: Total/NA
Prep Batch: 479323

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Carbon dioxide	100000	F1 cn	35800	96200	F1	ug/L		-12	80 - 122		

Lab Sample ID: 410-162062-1 MSD
Matrix: Water
Analysis Batch: 479281

Client Sample ID: HS24021563-02 46WW02-240226
Prep Type: Total/NA
Prep Batch: 479323

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon dioxide	100000	F1 cn	35800	94200	F1	ug/L		-18	80 - 122	2	20

QC Association Summary

Client: ALS Group USA, Corp
Project/Site: HS24021563

Job ID: 410-162062-1

GC VOA

Analysis Batch: 479281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-162062-1	HS24021563-02 46WW02-240226	Total/NA	Water	RSK-175	479323
410-162062-2	HS24021563-05 46WW16-240226	Total/NA	Water	RSK-175	479323
410-162062-3	HS24021563-06 46WW05-240226	Total/NA	Water	RSK-175	479323
MB 410-479323/1-A	Method Blank	Total/NA	Water	RSK-175	479323
LCS 410-479323/2-A	Lab Control Sample	Total/NA	Water	RSK-175	479323
410-162062-1 MS	HS24021563-02 46WW02-240226	Total/NA	Water	RSK-175	479323
410-162062-1 MSD	HS24021563-02 46WW02-240226	Total/NA	Water	RSK-175	479323

Prep Batch: 479323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-162062-1	HS24021563-02 46WW02-240226	Total/NA	Water	RSK-175	
410-162062-2	HS24021563-05 46WW16-240226	Total/NA	Water	RSK-175	
410-162062-3	HS24021563-06 46WW05-240226	Total/NA	Water	RSK-175	
MB 410-479323/1-A	Method Blank	Total/NA	Water	RSK-175	
LCS 410-479323/2-A	Lab Control Sample	Total/NA	Water	RSK-175	
410-162062-1 MS	HS24021563-02 46WW02-240226	Total/NA	Water	RSK-175	
410-162062-1 MSD	HS24021563-02 46WW02-240226	Total/NA	Water	RSK-175	

Lab Chronicle

Client: ALS Group USA, Corp
Project/Site: HS24021563

Job ID: 410-162062-1

Client Sample ID: HS24021563-02 46WW02-240226

Lab Sample ID: 410-162062-1
Matrix: Water
Date Collected: 02/26/24 08:15
Date Received: 02/28/24 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	RSK-175			479323	HQR6	ELLE	03/04/24 10:36
Total/NA	Analysis	RSK-175		1	479281	LXF2	ELLE	03/04/24 11:49

Client Sample ID: HS24021563-05 46WW16-240226

Lab Sample ID: 410-162062-2
Matrix: Water
Date Collected: 02/26/24 10:35
Date Received: 02/28/24 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	RSK-175			479323	HQR6	ELLE	03/04/24 10:36
Total/NA	Analysis	RSK-175		1	479281	LXF2	ELLE	03/04/24 12:40

Client Sample ID: HS24021563-06 46WW05-240226

Lab Sample ID: 410-162062-3
Matrix: Water
Date Collected: 02/26/24 11:20
Date Received: 02/28/24 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	RSK-175			479323	HQR6	ELLE	03/04/24 10:36
Total/NA	Analysis	RSK-175		1	479281	LXF2	ELLE	03/04/24 12:47

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: ALS Group USA, Corp
Job ID: 410-162062-1
Project/Site: HS24021563

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Louisiana (All)	NELAP	02055	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
RSK-175	RSK-175	Water	Carbon dioxide

Texas	NELAP	T104704194-23-46	08-31-24

Method Summary

Client: ALS Group USA, Corp
Project/Site: HS24021563

Job ID: 410-162062-1

Method	Method Description	Protocol	Laboratory
RSK-175	Dissolved Gases (GC)	RSK	ELLE
RSK-175	Dissolved Gases Prep	RSK	ELLE

Protocol References:

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: ALS Group USA, Corp
Project/Site: HS24021563

Job ID: 410-162062-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-162062-1	HS24021563-02 46WW02-240226	Water	02/26/24 08:15	02/28/24 09:40
410-162062-2	HS24021563-05 46WW16-240226	Water	02/26/24 10:35	02/28/24 09:40
410-162062-3	HS24021563-06 46WW05-240226	Water	02/26/24 11:20	02/28/24 09:40

GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-162062-1

SDG No.:

Instrument ID: 19506-B Analysis Batch Number: 369251

Lab Sample ID: IC 410-369251/5 Client Sample ID:

Date Analyzed: 04/27/23 09:59 Lab File ID: 312023_04_27BB.0005.d GC Column: HP Plot ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon dioxide	2.06	Baseline Smoothing	WN7O	04/28/23 07:18

Lab Sample ID: IC 410-369251/10 Client Sample ID:

Date Analyzed: 04/27/23 10:37 Lab File ID: 312023_04_27BB.0010.d GC Column: HP Plot ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon dioxide	1.98	Baseline Smoothing	WN7O	04/28/23 07:17

GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-162062-1

SDG No.:

Instrument ID: 19506-B Analysis Batch Number: 479281

Lab Sample ID: MB 410-479323/1-A Client Sample ID:

Date Analyzed: 03/04/24 10:41 Lab File ID: 312024_3_4BB.0003.d GC Column: 19809 ID: 1(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon dioxide	2.05	Peak not integrated	LXF2	03/05/24 04:06

Lab Sample ID: 410-162062-3 Client Sample ID: HS24021563-06 46WW05-240226

Date Analyzed: 03/04/24 12:47 Lab File ID: 312024_3_4BB.0015.d GC Column: 19809 ID: 1(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon dioxide	2.01	Assign Peak	LXF2	03/05/24 04:06

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-162062-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
EPH_CO2ICV_00002	09/29/23	09/29/22	DI Water, Lot In House	1 mL	EPH_CO2XX_00002	0.0018 g	Carbon dioxide	547000 ppb
.EPH_CO2XX_00002	09/29/23	Air Products, Lot A214157			(Purchased Reagent)		Carbon dioxide	30.3889 %
EPH_CO2MS_00004	07/16/23	07/18/22	DI Water, Lot In House	1 g	EPH_CO2CRV_00002	0.0018 g	Carbon dioxide	1791000 ppb
.EPH_CO2CRV_00002	07/16/23	Praxair, Lot 4-11-18			(Purchased Reagent)		Carbon dioxide	99.5 %
EPH_CO2MS_00006	07/18/24	07/18/23	DI Water, Lot In House	1 g	EPH_CO2CRV_00003	0.0018 g	Carbon dioxide	1791000 ppb
.EPH_CO2CRV_00003	07/18/24	Praxair, Lot 4-11-18			(Purchased Reagent)		Carbon dioxide	99.5 %

Method RSK-175 CO2 DOD

Dissolved Gases (GC) by Method RSK_175_CO2 DOD

FORM III
GC VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-162062-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 312024_3_4BB.0004.d

Lab ID: LCS 410-479323/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Carbon dioxide	35800	36400	102	80-122	

Column to be used to flag recovery and RPD values

FORM III RSK-175

FORM III
GC VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-162062-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 312024_3_4BB.0011.d

Lab ID: 410-162062-1 MS Client ID: HS24021563-02 46WW02-240226 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Carbon dioxide	35800	100000	96200	-12	80-122	F1

Column to be used to flag recovery and RPD values

FORM III RSK-175

FORM III
GC VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-162062-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 312024_3_4BB.0012.d

Lab ID: 410-162062-1 MSD Client ID: HS24021563-02 46WW02-240226 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Carbon dioxide	35800	94200	-18	2	20	80-122	F1

Column to be used to flag recovery and RPD values

FORM III RSK-175

FORM IV
GC VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-162062-1

SDG No.:

Lab File ID: 312024_3_4BB.0003.d Lab Sample ID: MB 410-479323/1-A

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: 19506-B Date Analyzed: 03/04/2024 10:41

GC Column: 19809 ID: 1(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-479323/2-A	312024_3_4BB.0004.d	03/04/2024 10:48
HS24021563-02 46WW02-240226	410-162062-1	312024_3_4BB.0010.d	03/04/2024 11:49
HS24021563-02 46WW02-240226 MS	410-162062-1 MS	312024_3_4BB.0011.d	03/04/2024 11:57
HS24021563-02 46WW02-240226 MSD	410-162062-1 MSD	312024_3_4BB.0012.d	03/04/2024 12:05
HS24021563-05 46WW16-240226	410-162062-2	312024_3_4BB.0014.d	03/04/2024 12:40
HS24021563-06 46WW05-240226	410-162062-3	312024_3_4BB.0015.d	03/04/2024 12:47

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-162062-1

SDG No.:

Client Sample ID: HS24021563-02 46WW02-240226
Lab Sample ID: 410-162062-1

Matrix: Water
Lab File ID: 312024_3_4BB.0010.d

Analysis Method: RSK-175
Date Collected: 02/26/2024 08:15

Sample wt/vol: 5(mL)
Date Analyzed: 03/04/2024 11:49

Soil Aliquot Vol:
Dilution Factor: 1

Soil Extract Vol.:
GC Column: 19809 ID: 1(mm)

Purge Volume:
Heated Purge: (Y/N) N pH: 7.0

% Moisture: % Solids:
Level: (low/med) Low

Analysis Batch No.: 479281
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-38-9	Carbon dioxide	100000	F1 cn	12000	5600

Report Date: 05-Mar-2024 04:07:08 Chrom Revision: 2.3 23-Feb-2024 16:51:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240304-107769.b\312024_3_4BB.0010.d				
Lims ID:	410-162062-A-1-A				
Client ID:	HS24021563-02 46WW02-240226				
Sample Type:	Client				
Inject. Date:	04-Mar-2024 11:49:00	ALS Bottle#:	0	Worklist Smp#:	10
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0107769-010				
Operator ID:		Instrument ID:	19506-B		
Method:	\\chromfs\Lancaster\ChromData\19506-B\20240304-107769.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	05-Mar-2024 04:07:05	Calib Date:	27-Apr-2023 10:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0010.d				
Column 1 :	ShinCarbon ST Microplacked GC (1.00 mm)		Det: 0FIDA		
Process Host:	CTX1650				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.035	2.045	-0.010	330685235	H 100508	

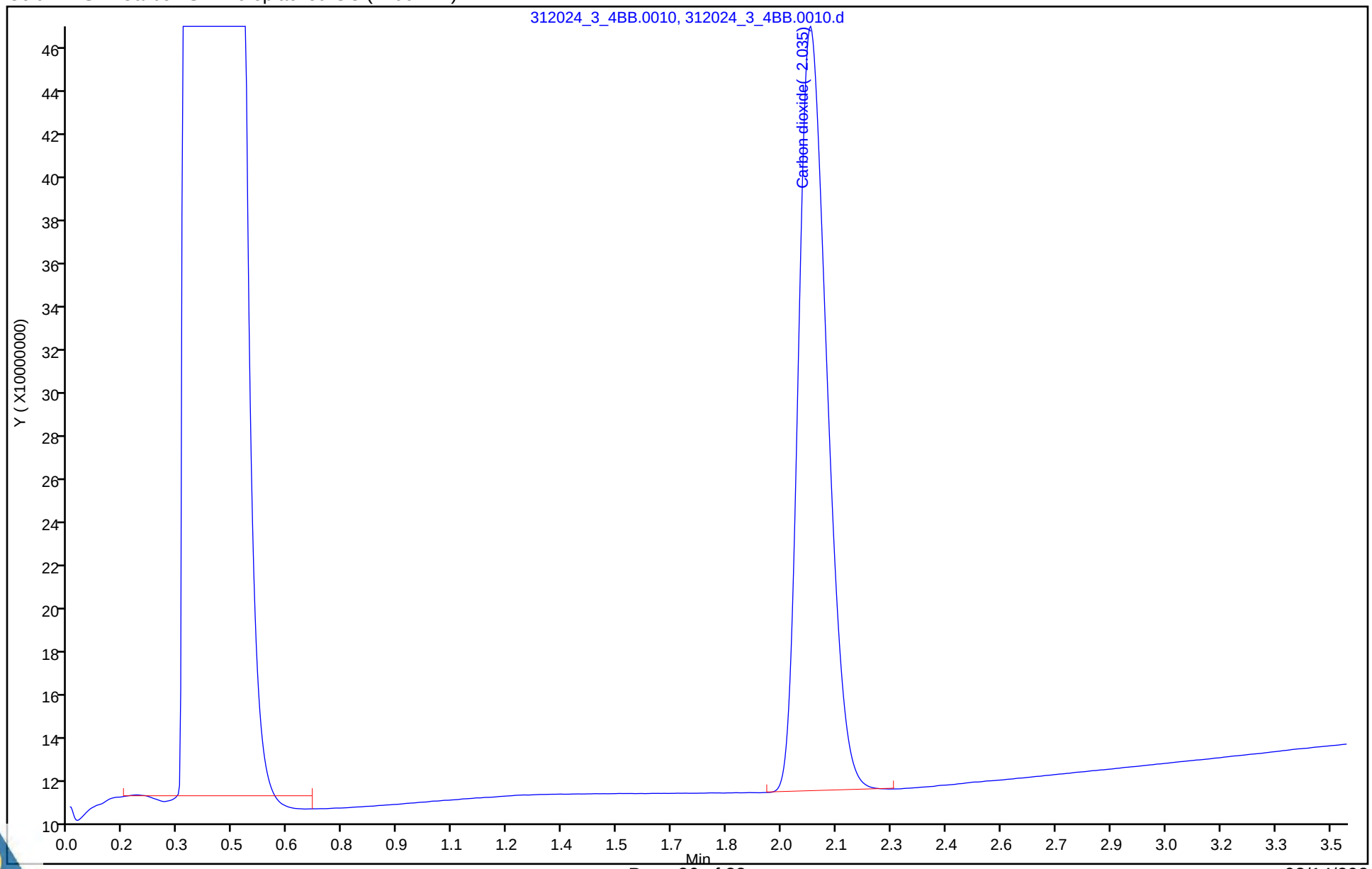
Report Date: 05-Mar-2024 04:07:08 Chrom Revision: 2.3 23-Feb-2024 16:51:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240304-107769.b\312024_3_4BB.0010.d

Injection Date:	04-Mar-2024 11:49:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	410-162062-A-1-A	Lab Sample ID:	410-162062-1	Worklist Smp#:	10
Client ID:	HS24021563-02 46WW02-240226				
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: ShinCarbon ST Microplacked GC (1.00 mm)



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-162062-1

SDG No.:

Client Sample ID: HS24021563-05 46WW16-240226
Lab Sample ID: 410-162062-2

Matrix: Water
Lab File ID: 312024_3_4BB.0014.d

Analysis Method: RSK-175
Date Collected: 02/26/2024 10:35

Sample wt/vol: 5(mL)
Date Analyzed: 03/04/2024 12:40

Soil Aliquot Vol:
Dilution Factor: 1

Soil Extract Vol.:
GC Column: 19809 ID: 1(mm)

Purge Volume:
Heated Purge: (Y/N) N pH: 7.0

% Moisture: % Solids:
Level: (low/med) Low

Analysis Batch No.: 479281
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-38-9	Carbon dioxide	46000		12000	5600

Report Date: 05-Mar-2024 04:07:10 Chrom Revision: 2.3 23-Feb-2024 16:51:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240304-107769.b\312024_3_4BB.0014.d
Lims ID: 410-162062-A-2-A
Client ID: HS24021563-05 46WW16-240226
Sample Type: Client
Inject. Date: 04-Mar-2024 12:40:00 ALS Bottle#: 0 Worklist Smp#: 14
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 410-0107769-014
Operator ID: Instrument ID: 19506-B

Method: \\chromfs\Lancaster\ChromData\19506-B\20240304-107769.b\RSK_CO2_19506B.m
Limit Group: GCV - RSK175 CO2
Last Update: 05-Mar-2024 04:07:09 Calib Date: 27-Apr-2023 10:37:00
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0010.d

Column 1 : ShinCarbon ST Microplacked GC (1.00 mm) Det: 0FIDA
Process Host: CTX1650

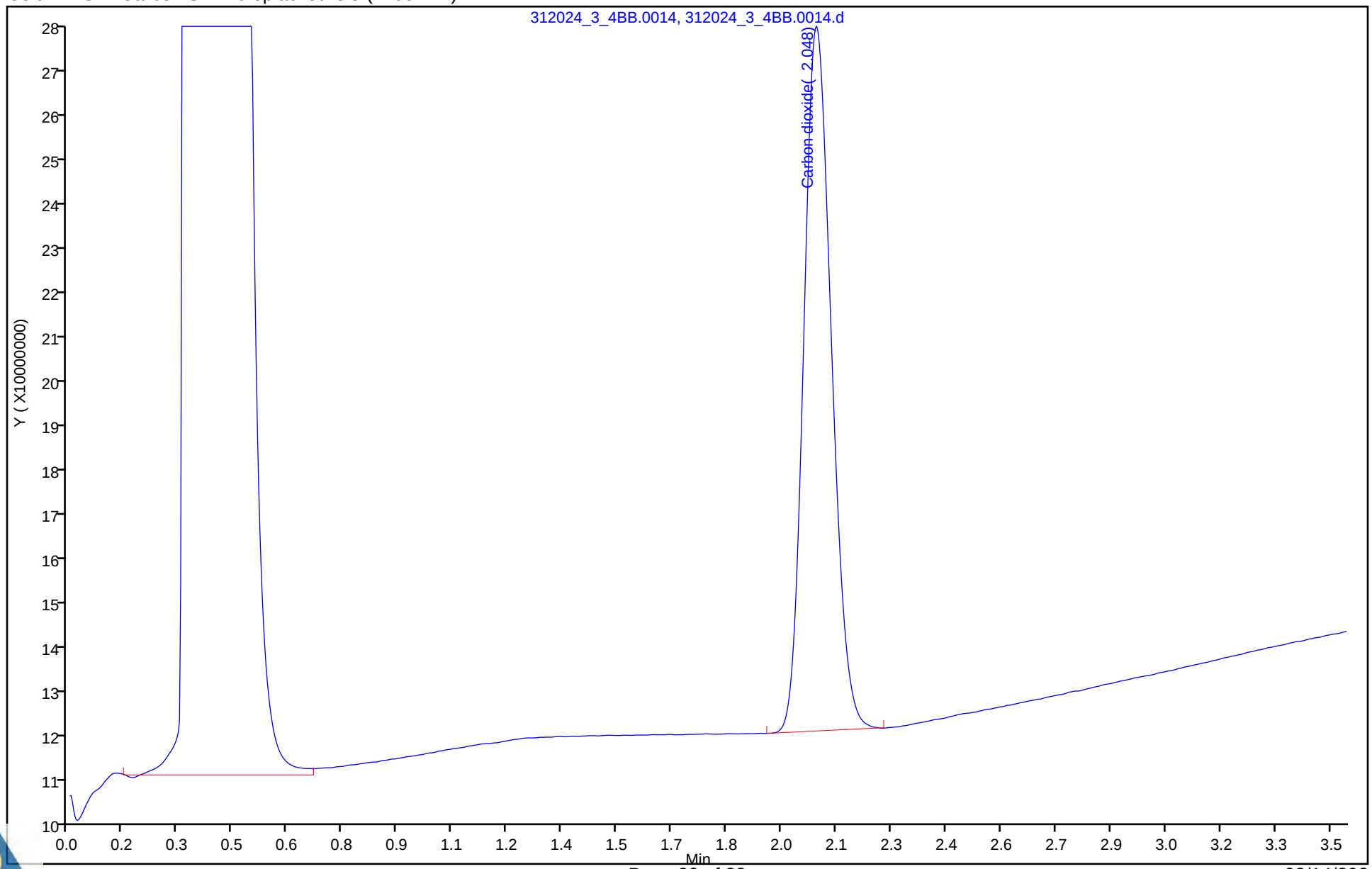
Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.048	2.045	0.003	151327842	45995	H

Report Date: 05-Mar-2024 04:07:10 Chrom Revision: 2.3 23-Feb-2024 16:51:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240304-107769.b\312024_3_4BB.0014.d				
Injection Date:	04-Mar-2024 12:40:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	410-162062-A-2-A	Lab Sample ID:	410-162062-2	Worklist Smp#:	14
Client ID:	HS24021563-05 46WW16-240226				
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: ShinCarbon ST Microplacked GC (1.00 mm)



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-162062-1

SDG No.:

Client Sample ID: HS24021563-06 46WW05-240226
Lab Sample ID: 410-162062-3

Matrix: Water
Lab File ID: 312024_3_4BB.0015.d

Analysis Method: RSK-175
Date Collected: 02/26/2024 11:20

Sample wt/vol: 5(mL)
Date Analyzed: 03/04/2024 12:47

Soil Aliquot Vol:
Dilution Factor: 1

Soil Extract Vol.:
GC Column: 19809 ID: 1(mm)

Purge Volume:
Heated Purge: (Y/N) N pH: 6.0

% Moisture: % Solids:
Level: (low/med) Low

Analysis Batch No.: 479281
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-38-9	Carbon dioxide	210000		12000	5600

Report Date: 05-Mar-2024 04:07:10 Chrom Revision: 2.3 23-Feb-2024 16:51:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240304-107769.b\312024_3_4BB.0015.d				
Lims ID:	410-162062-A-3-A				
Client ID:	HS24021563-06 46WW05-240226				
Sample Type:	Client				
Inject. Date:	04-Mar-2024 12:47:00	ALS Bottle#:	0	Worklist Smp#:	15
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0107769-015				
Operator ID:		Instrument ID:	19506-B		
Method:	\\chromfs\Lancaster\ChromData\19506-B\20240304-107769.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	05-Mar-2024 04:07:09	Calib Date:	27-Apr-2023 10:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0010.d				
Column 1 :	ShinCarbon ST Microplacked GC (1.00 mm)		Det: 0FIDA		
Process Host:	CTX1650				
First Level Reviewer: LXF2		Date:	05-Mar-2024 04:06:46		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.012	2.045	-0.033	700772717H	212993	a

QC Flag Legend

Processing Flags

H - Response Measured by Height

Review Flags

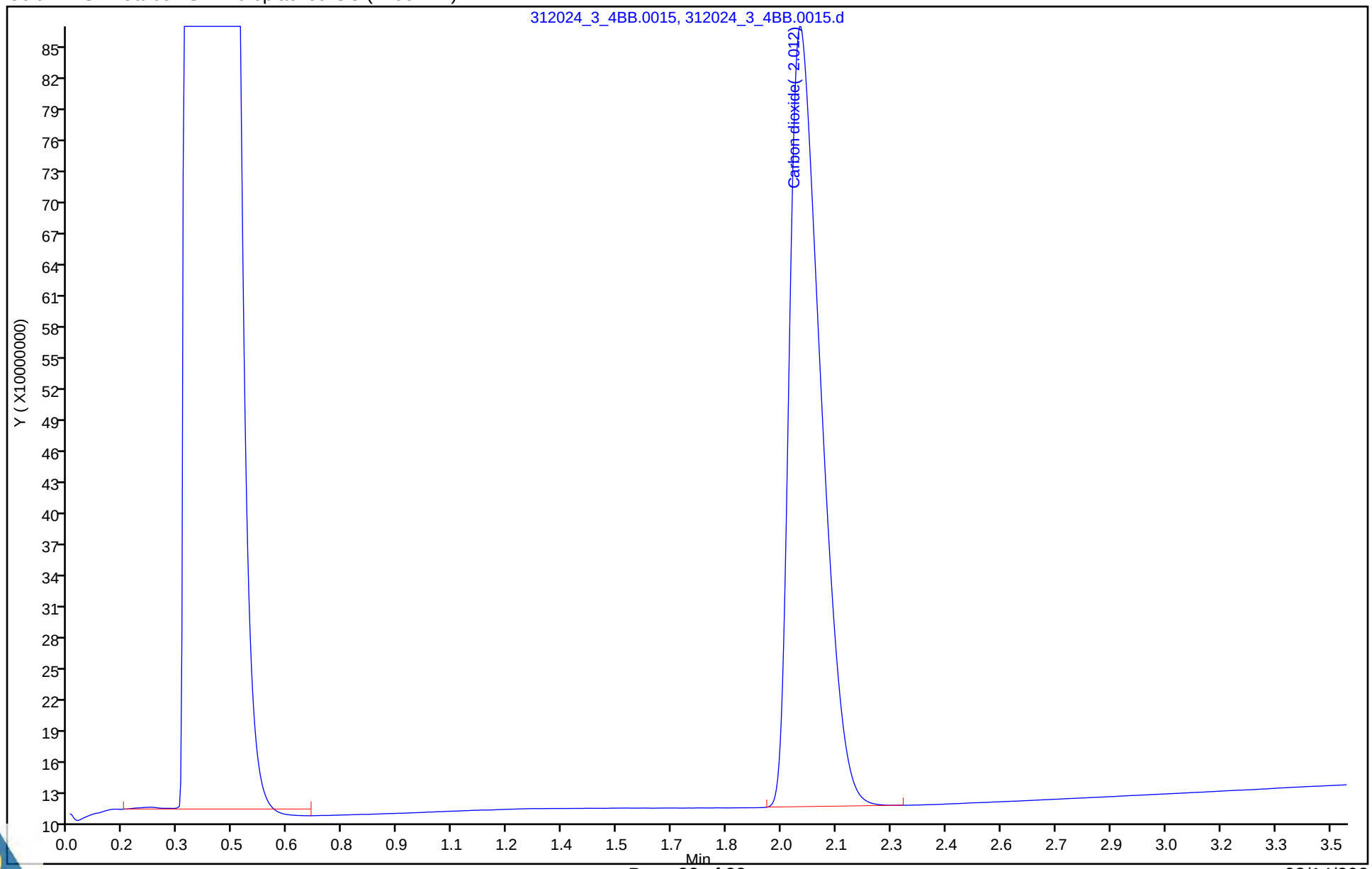
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Report Date: 05-Mar-2024 04:07:10 Chrom Revision: 2.3 23-Feb-2024 16:51:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240304-107769.b\312024_3_4BB.0015.d				
Injection Date:	04-Mar-2024 12:47:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	410-162062-A-3-A	Lab Sample ID:	410-162062-3	Worklist Smp#:	15
Client ID:	HS24021563-06 46WW05-240226				
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: ShinCarbon ST Microplacked GC (1.00 mm)



Report Date: 05-Mar-2024 04:07:10 Chrom Revision: 2.3 23-Feb-2024 16:51:14

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

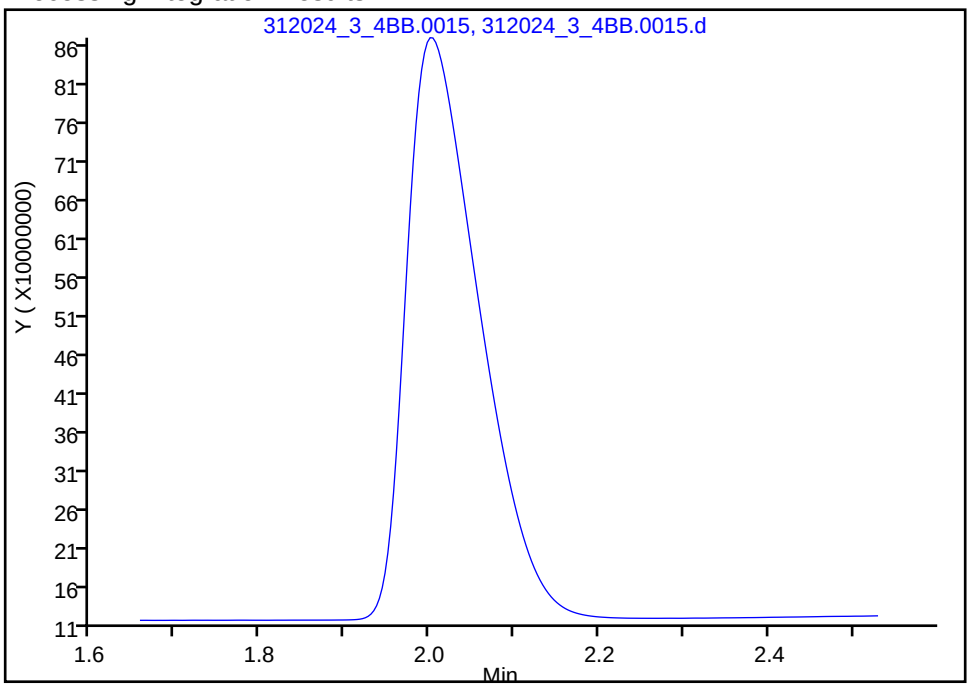
Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240304-107769.b\312024_3_4BB.0015.d				
Injection Date:	04-Mar-2024 12:47:00	Instrument ID:	19506-B		
Lims ID:	410-162062-A-3-A	Lab Sample ID:	410-162062-3		
Client ID:	HS24021563-06 46WW05-240226				
Operator ID:		ALS Bottle#:	0	Worklist Smp#:	15
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		
Column:	ShinCarbon ST Microplacked GC (1.00 mm)	Detector	0FIDA		

1 Carbon dioxide, CAS: 124-38-9

Signal: 1

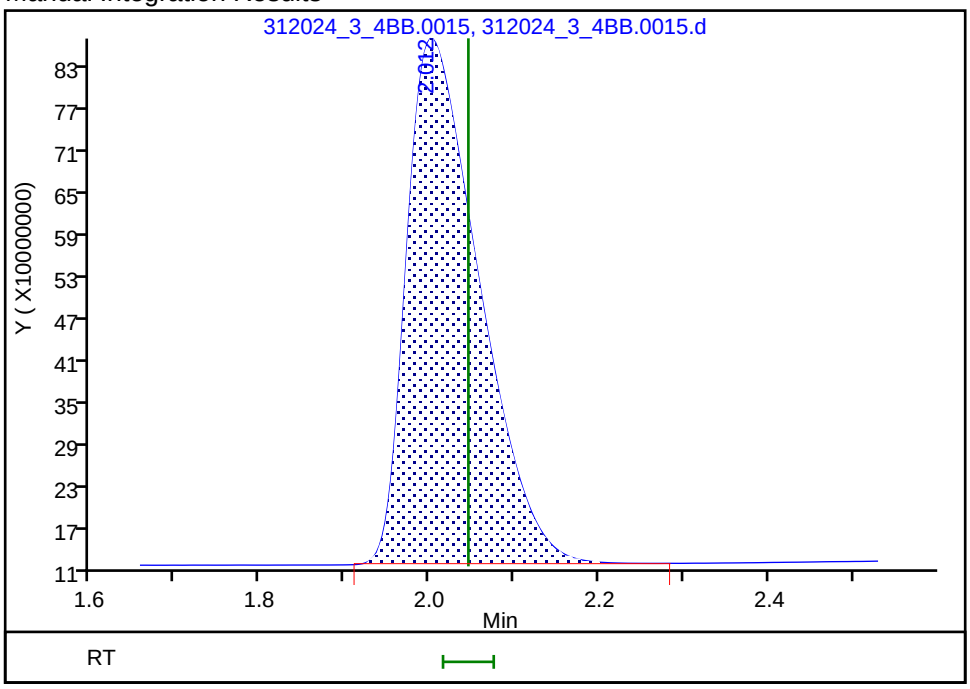
Not Detected
Expected RT: 2.05

Processing Integration Results



Manual Integration Results

RT: 2.01
Height: 700772717
Amount: 212993
Amount Units: ug/l



Reviewer: LXF2, 05-Mar-2024 04:06:45 -05:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Assign Peak

FORM VI
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-162062-1 Analy Batch No.: 369251

SDG No.:

Instrument ID: 19506-B GC Column: HP Plot ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/27/2023 09:59 Calibration End Date: 04/27/2023 10:37 Calibration ID: 49603

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-369251/5	312023_04_27BB.0005.d
Level 2	IC 410-369251/6	312023_04_27BB.0006.d
Level 3	ICRT 410-369251/7	312023_04_27BB.0007.d
Level 4	IC 410-369251/8	312023_04_27BB.0008.d
Level 5	IC 410-369251/9	312023_04_27BB.0009.d
Level 6	IC 410-369251/10	312023_04_27BB.0010.d

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
Carbon dioxide	2.060	2.059	2.054	2.043	2.024	1.983					2.024 - 2.084	2.037

FORM VI
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-162062-1 Analy Batch No.: 369251

SDG No.:

Instrument ID: 19506-B GC Column: HP Plot ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/27/2023 09:59 Calibration End Date: 04/27/2023 10:37 Calibration ID: 49603

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-369251/5	312023_04_27BB.0005.d
Level 2	IC 410-369251/6	312023_04_27BB.0006.d
Level 3	ICRT 410-369251/7	312023_04_27BB.0007.d
Level 4	IC 410-369251/8	312023_04_27BB.0008.d
Level 5	IC 410-369251/9	312023_04_27BB.0009.d
Level 6	IC 410-369251/10	312023_04_27BB.0010.d

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
Carbon dioxide	3853.7 3132.6	3271.4 2761.6	3403.0	3318.5	Ave		3290.12214				10.8		20.0			

Note: The M1 coefficient is the same as Ave CF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-162062-1 Analy Batch No.: 369251

SDG No.:

Instrument ID: 19506-B GC Column: HP Plot ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/27/2023 09:59 Calibration End Date: 04/27/2023 10:37 Calibration ID: 49603

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-369251/5	312023_04_27BB.0005.d
Level 2	IC 410-369251/6	312023_04_27BB.0006.d
Level 3	ICRT 410-369251/7	312023_04_27BB.0007.d
Level 4	IC 410-369251/8	312023_04_27BB.0008.d
Level 5	IC 410-369251/9	312023_04_27BB.0009.d
Level 6	IC 410-369251/10	312023_04_27BB.0010.d

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Carbon dioxide	Ave	41411686 989211697	70308888	121893696	297170647	561047460	10746 358200	21492	35820	89550	179100

Curve Type Legend:
Ave = Average by Height

Report Date: 28-Apr-2023 07:19:05 Chrom Revision: 2.3 20-Apr-2023 08:27:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0005.d
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 27-Apr-2023 09:59:00 ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 410-0082537-005
Operator ID: Instrument ID: 19506-B
Sublist: chrom-RSK_CO2_19506B*sub1

Method: \\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\RSK_CO2_19506B.m
Limit Group: GCV - RSK175 CO2
Last Update: 28-Apr-2023 07:19:05 Calib Date: 27-Apr-2023 10:37:00
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0010.d

Column 1 : HP Plot (0.00 mm) Det: 0FIDA
Process Host: CTX1628

First Level Reviewer: WN7O Date: 28-Apr-2023 07:18:31

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.060	2.054	0.006	41411686H	10746	12587	M

QC Flag Legend

Processing Flags
H - Response Measured by Height
Review Flags
M - Manually Integrated

Reagents:

EPH_CO2MS_00004 Amount Added: 30.00 Units: uL

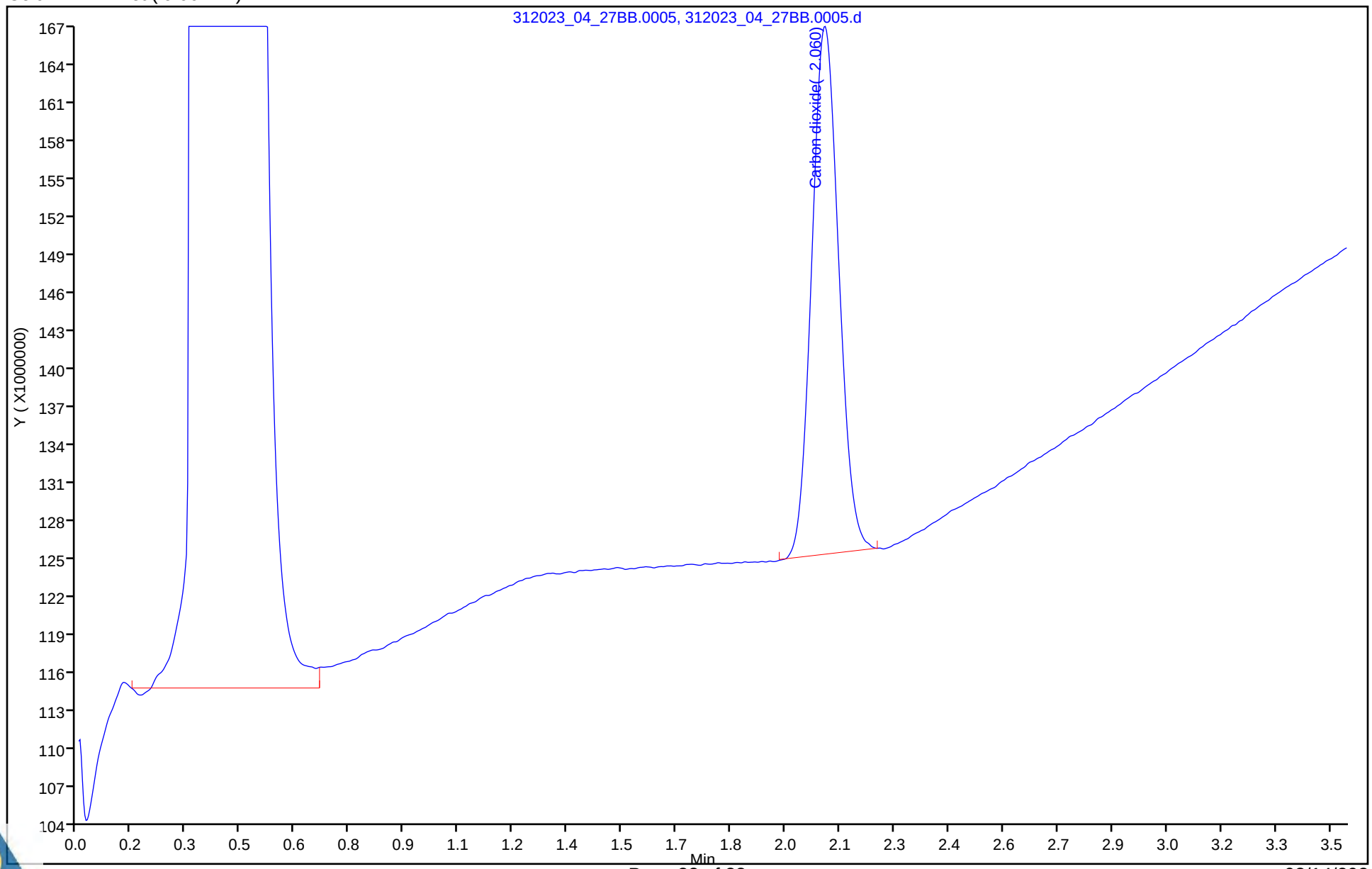
Report Date: 28-Apr-2023 07:19:05 Chrom Revision: 2.3 20-Apr-2023 08:27:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0005.d

Injection Date:	27-Apr-2023 09:59:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	ic			Worklist Smp#:	5
Client ID:					
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: HP Plot (0.00 mm)



Report Date: 28-Apr-2023 07:19:05 Chrom Revision: 2.3 20-Apr-2023 08:27:48

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

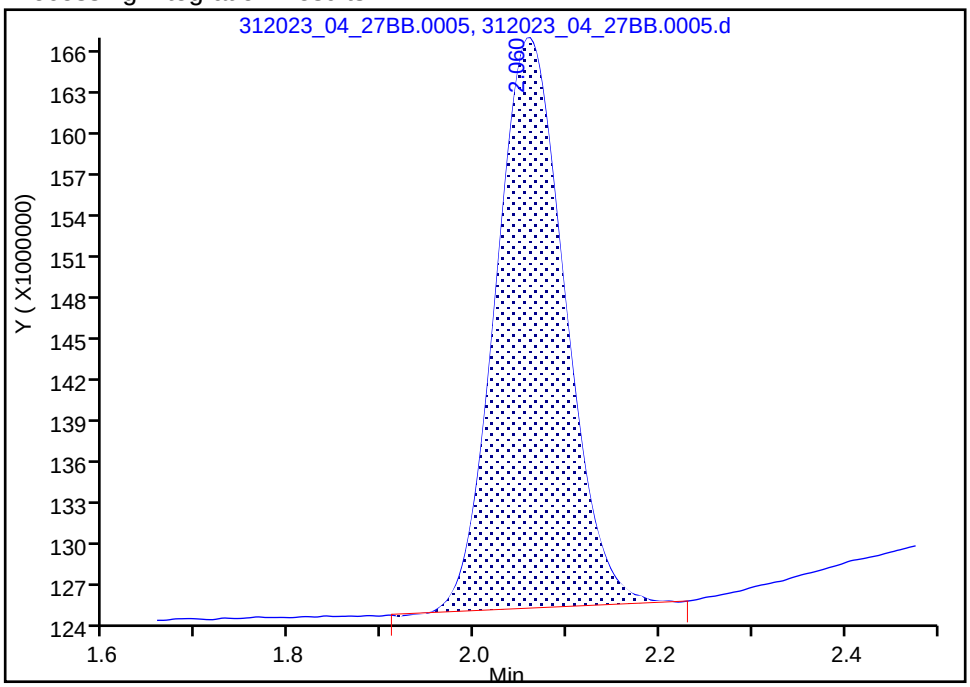
Data File: \\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0005.d
Injection Date: 27-Apr-2023 09:59:00 Instrument ID: 19506-B
Lims ID: ic
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Method: RSK_CO2_19506B Limit Group: GCV - RSK175 CO2
Column: HP Plot (0.00 mm) Detector 0FIDA

1 Carbon dioxide, CAS: 124-38-9

Signal: 1

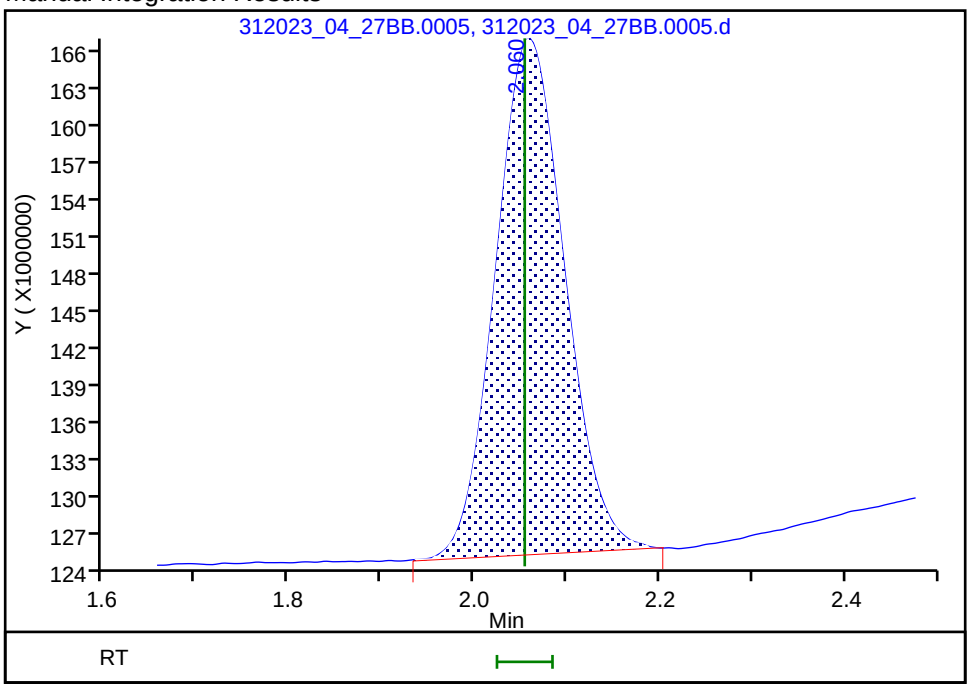
Processing Integration Results

RT: 2.06
Height: 40493056
Amount: 12361
Amount Units: ug/l



Manual Integration Results

RT: 2.06
Height: 41411686
Amount: 12587
Amount Units: ug/l



Reviewer: WN7O, 28-Apr-2023 07:18:28
Audit Action: Manually Integrated
Audit Reason: Baseline Smoothing

Report Date: 28-Apr-2023 07:19:06 Chrom Revision: 2.3 20-Apr-2023 08:27:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0006.d				
Lims ID:	ic				
Client ID:					
Sample Type:	IC	Calib Level:	2		
Inject. Date:	27-Apr-2023 10:06:00	ALS Bottle#:	0	Worklist Smp#:	6
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0082537-006				
Operator ID:		Instrument ID:	19506-B		
Sublist:	chrom-RSK_CO2_19506B*sub1				
Method:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	28-Apr-2023 07:19:06	Calib Date:	27-Apr-2023 10:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0010.d				
Column 1 :	HP Plot (0.00 mm)		Det: 0FIDA		
Process Host:	CTX1628				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.059	2.054	0.005	70308888	H 21492	21370	

Reagents:

EPH_CO2MS_00004 Amount Added: 60.00 Units: uL

Report Date: 28-Apr-2023 07:19:06 Chrom Revision: 2.3 20-Apr-2023 08:27:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0006.d

Injection Date: 27-Apr-2023 10:06:00 Instrument ID: 19506-B Operator ID:

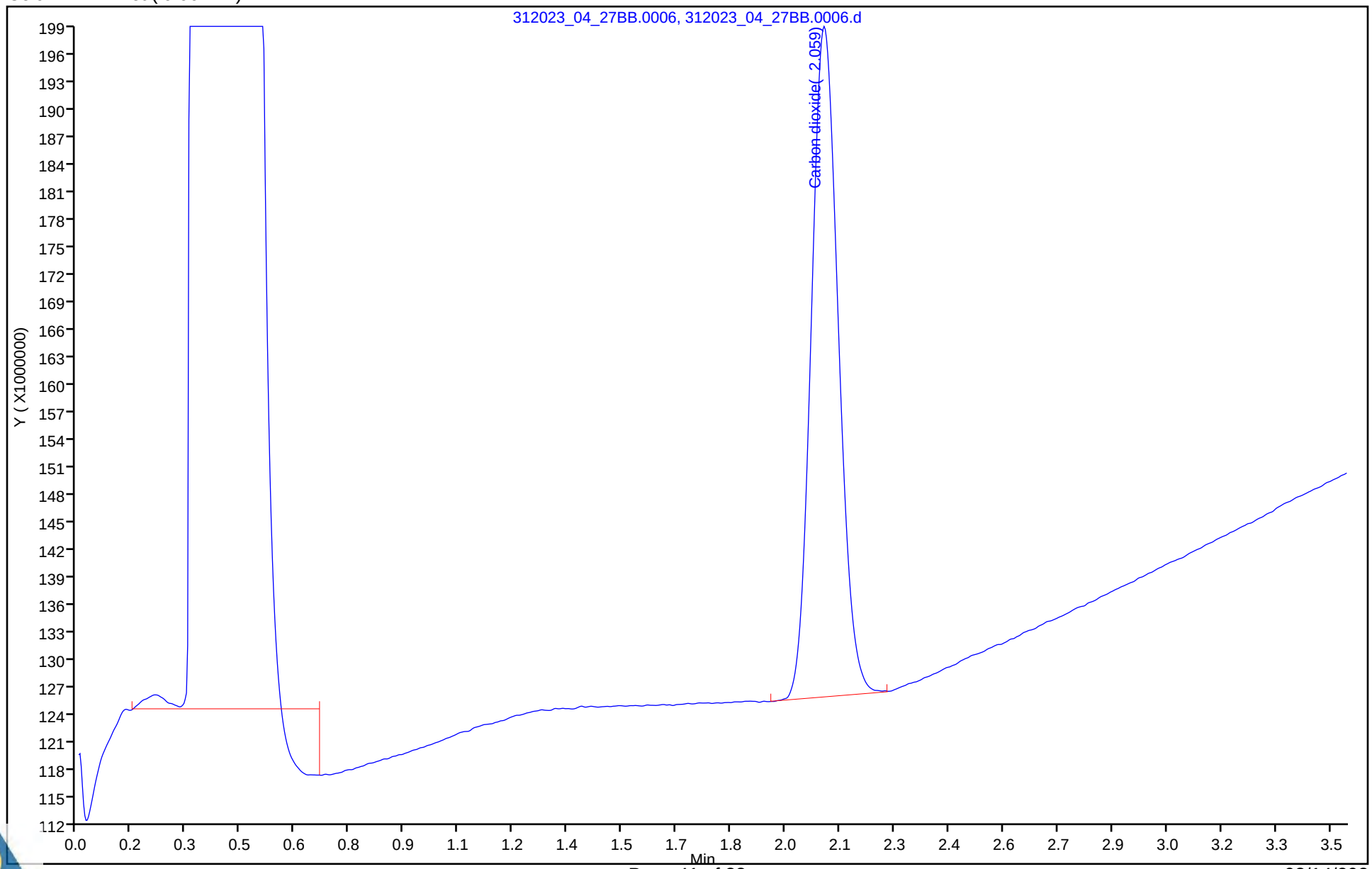
Lims ID: ic Worklist Smp#: 6

Client ID:

Purge Vol: 1.000 mL Dil. Factor: 1.0000 ALS Bottle#: 0

Method: RSK_CO2_19506B Limit Group: GCV - RSK175 CO2

Column: HP Plot (0.00 mm)



Report Date: 28-Apr-2023 07:19:08 Chrom Revision: 2.3 20-Apr-2023 08:27:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0007.d				
Lims ID:	icrt				
Client ID:					
Sample Type:	ICRT	Calib Level:	3		
Inject. Date:	27-Apr-2023 10:14:00	ALS Bottle#:	0	Worklist Smp#:	7
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0082537-007				
Operator ID:		Instrument ID:	19506-B		
Sublist:	chrom-RSK_CO2_19506B*sub1				
Method:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	28-Apr-2023 07:19:08	Calib Date:	27-Apr-2023 10:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0010.d				
Column 1 :	HP Plot (0.00 mm)		Det: 0FIDA		
Process Host:	CTX1628				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.054	2.054	0.000	121893696	H 35820	37048	

Reagents:

EPH_CO2MS_00004 Amount Added: 100.00 Units: uL

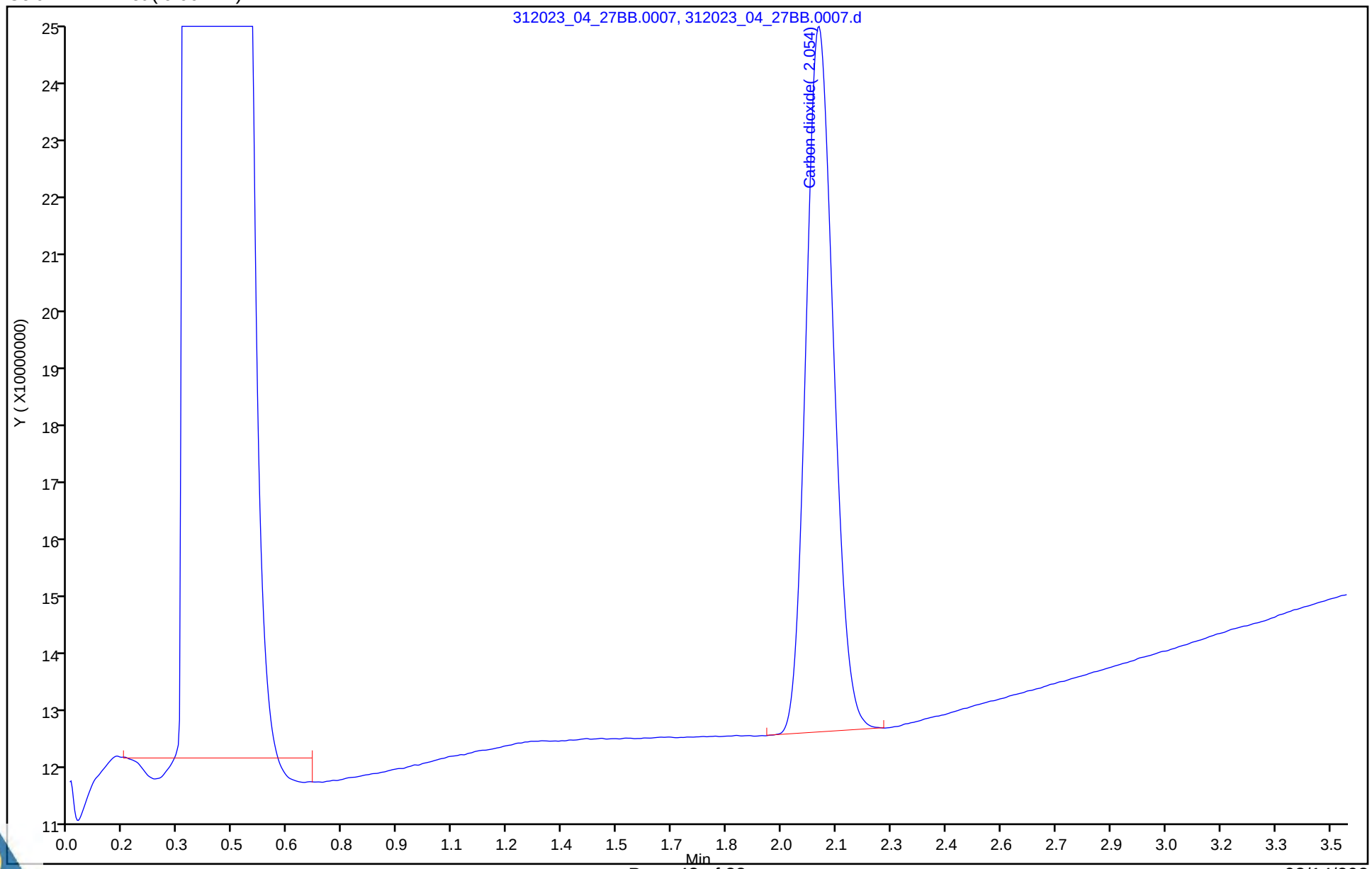
Report Date: 28-Apr-2023 07:19:08 Chrom Revision: 2.3 20-Apr-2023 08:27:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0007.d

Injection Date:	27-Apr-2023 10:14:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	icrt			Worklist Smp#:	7
Client ID:					
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: HP Plot (0.00 mm)



Report Date: 28-Apr-2023 07:19:09 Chrom Revision: 2.3 20-Apr-2023 08:27:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0008.d				
Lims ID:	ic				
Client ID:					
Sample Type:	IC	Calib Level:	4		
Inject. Date:	27-Apr-2023 10:22:00	ALS Bottle#:	0	Worklist Smp#:	8
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0082537-008				
Operator ID:		Instrument ID:	19506-B		
Sublist:	chrom-RSK_CO2_19506B*sub1				
Method:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	28-Apr-2023 07:19:09	Calib Date:	27-Apr-2023 10:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0010.d				
Column 1 :	HP Plot (0.00 mm)		Det: 0FIDA		
Process Host:	CTX1628				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.043	2.054	-0.011	297170647	H 89550	90322	

Reagents:

EPH_CO2MS_00004 Amount Added: 250.00 Units: uL

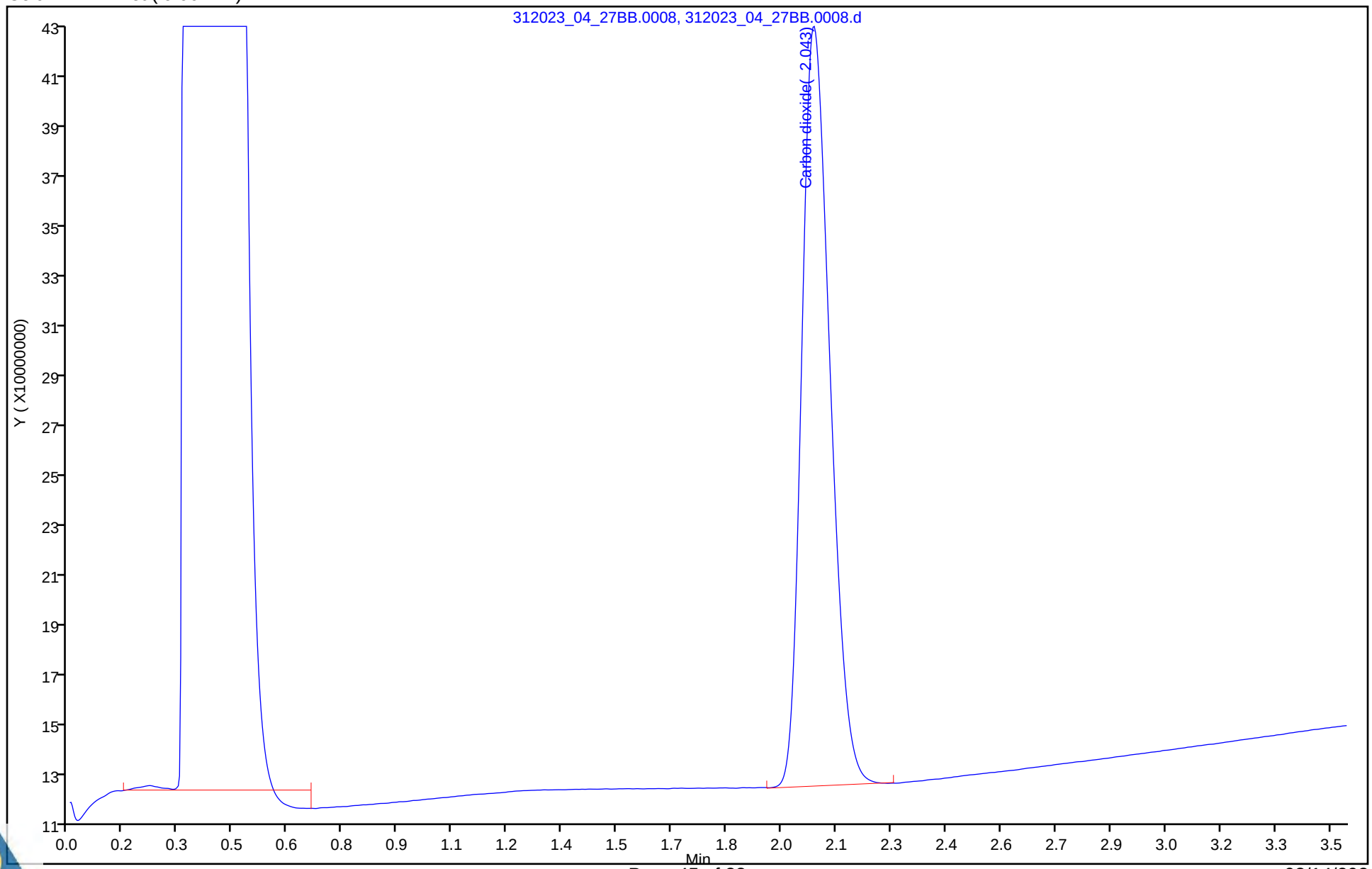
Report Date: 28-Apr-2023 07:19:09 Chrom Revision: 2.3 20-Apr-2023 08:27:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0008.d

Injection Date:	27-Apr-2023 10:22:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	ic			Worklist Smp#:	8
Client ID:					
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: HP Plot (0.00 mm)



Report Date: 28-Apr-2023 07:19:10 Chrom Revision: 2.3 20-Apr-2023 08:27:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0009.d				
Lims ID:	ic				
Client ID:					
Sample Type:	IC	Calib Level:	5		
Inject. Date:	27-Apr-2023 10:30:00	ALS Bottle#:	0	Worklist Smp#:	9
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0082537-009				
Operator ID:		Instrument ID:	19506-B		
Sublist:	chrom-RSK_CO2_19506B*sub1				
Method:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	28-Apr-2023 07:19:10	Calib Date:	27-Apr-2023 10:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0010.d				
Column 1 :	HP Plot (0.00 mm)		Det: 0FIDA		
Process Host:	CTX1628				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.024	2.054	-0.030	561047460	H 179100	170525	

Reagents:

EPH_CO2MS_00004 Amount Added: 500.00 Units: uL

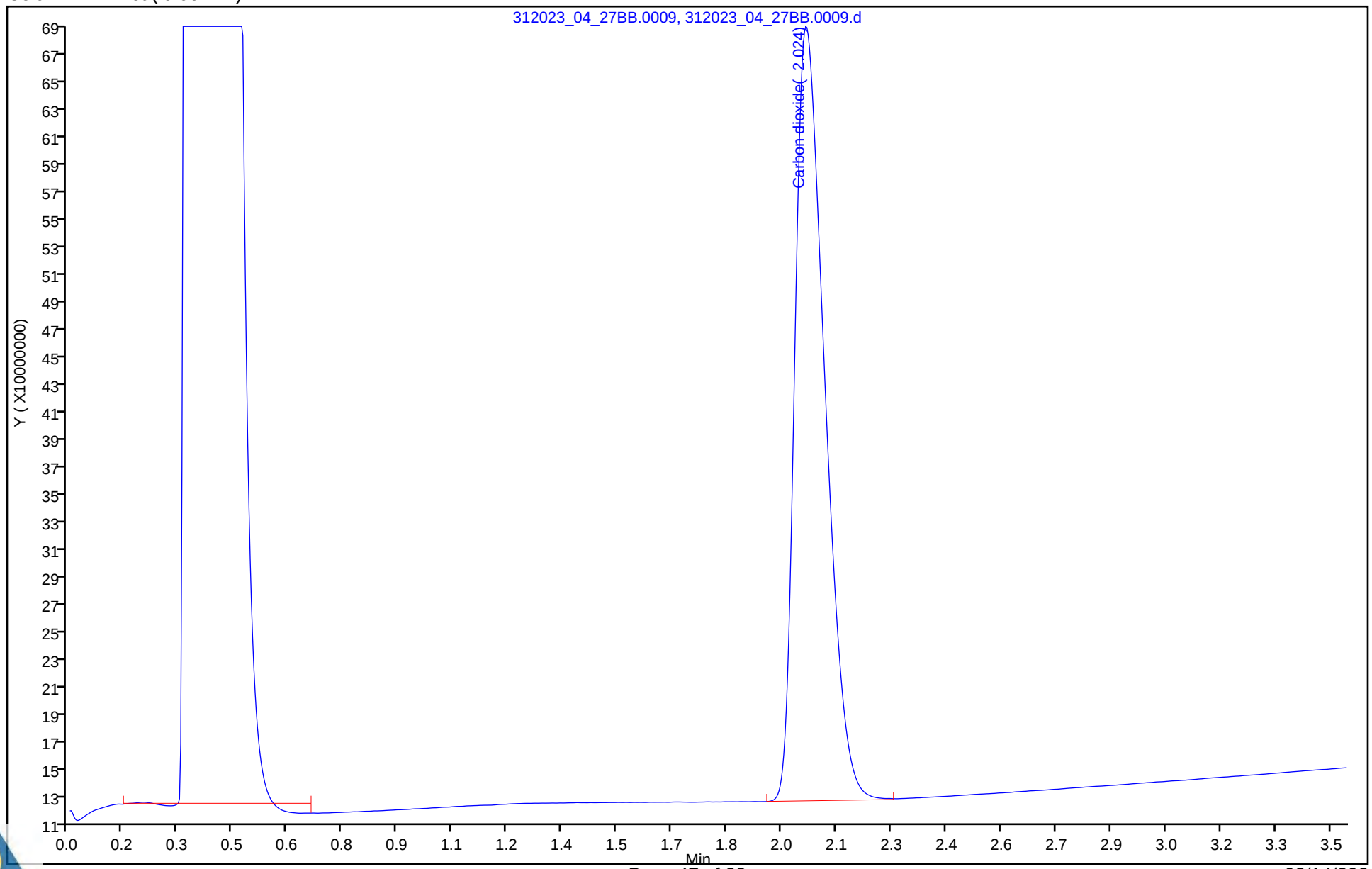
Report Date: 28-Apr-2023 07:19:10 Chrom Revision: 2.3 20-Apr-2023 08:27:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0009.d

Injection Date:	27-Apr-2023 10:30:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	ic			Worklist Smp#:	9
Client ID:					
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: HP Plot (0.00 mm)



Report Date: 28-Apr-2023 07:19:12 Chrom Revision: 2.3 20-Apr-2023 08:27:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0010.d
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 27-Apr-2023 10:37:00 ALS Bottle#: 0 Worklist Smp#: 10
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 410-0082537-010
Operator ID: Instrument ID: 19506-B
Sublist: chrom-RSK_CO2_19506B*sub1

Method: \\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\RSK_CO2_19506B.m
Limit Group: GCV - RSK175 CO2
Last Update: 28-Apr-2023 07:19:11 Calib Date: 27-Apr-2023 10:37:00
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0010.d

Column 1 : HP Plot (0.00 mm) Det: 0FIDA
Process Host: CTX1628

First Level Reviewer: WN7O Date: 28-Apr-2023 07:17:52

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	1.983	2.054	-0.071	989211697H	358200	300661	Ma

QC Flag Legend

Processing Flags
H - Response Measured by Height
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

EPH_CO2MS_00004 Amount Added: 1000.00 Units: uL

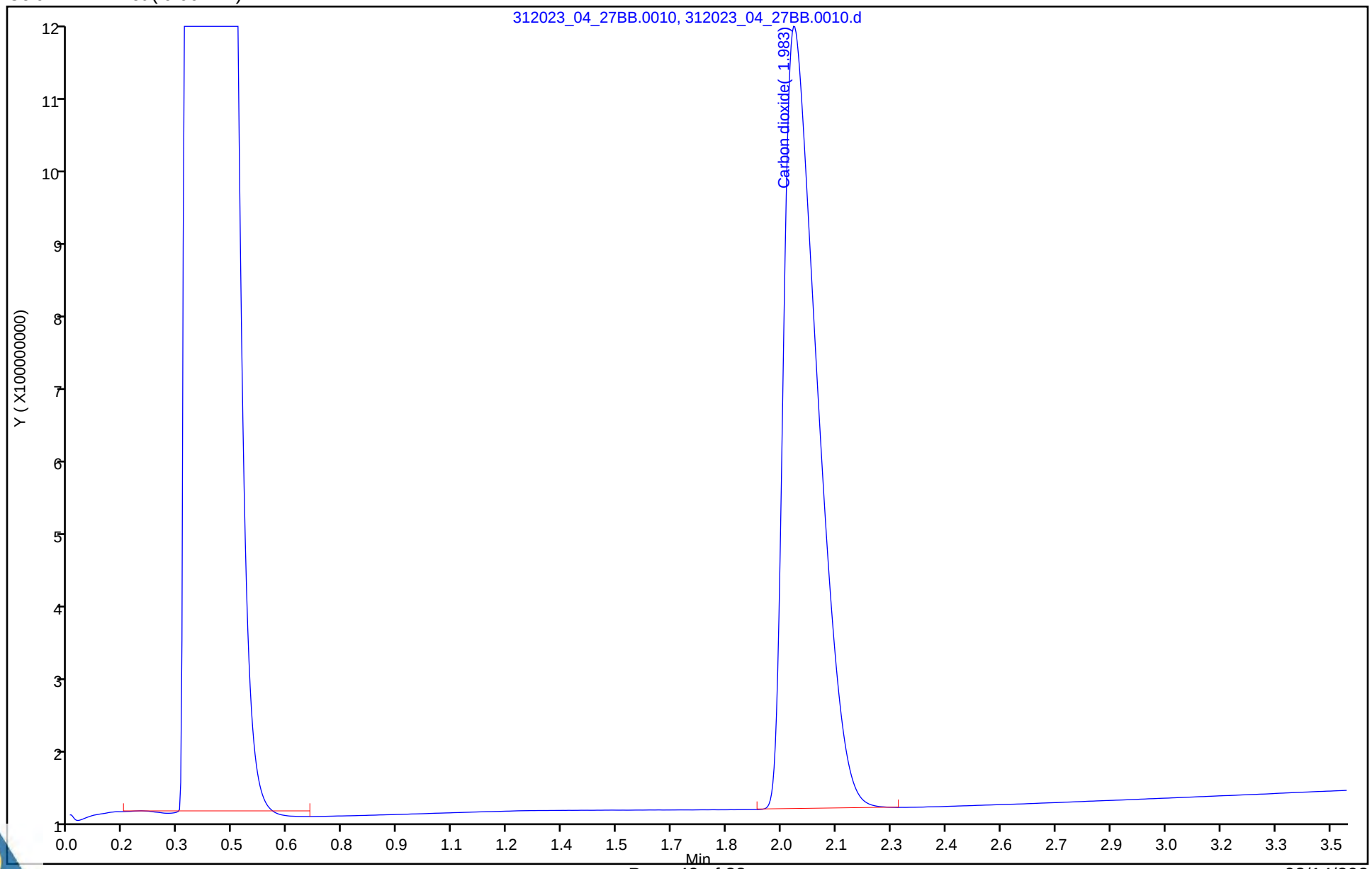
Report Date: 28-Apr-2023 07:19:12 Chrom Revision: 2.3 20-Apr-2023 08:27:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0010.d

Injection Date:	27-Apr-2023 10:37:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	ic			Worklist Smp#:	10
Client ID:					
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: HP Plot (0.00 mm)



Report Date: 28-Apr-2023 07:19:12 Chrom Revision: 2.3 20-Apr-2023 08:27:48

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

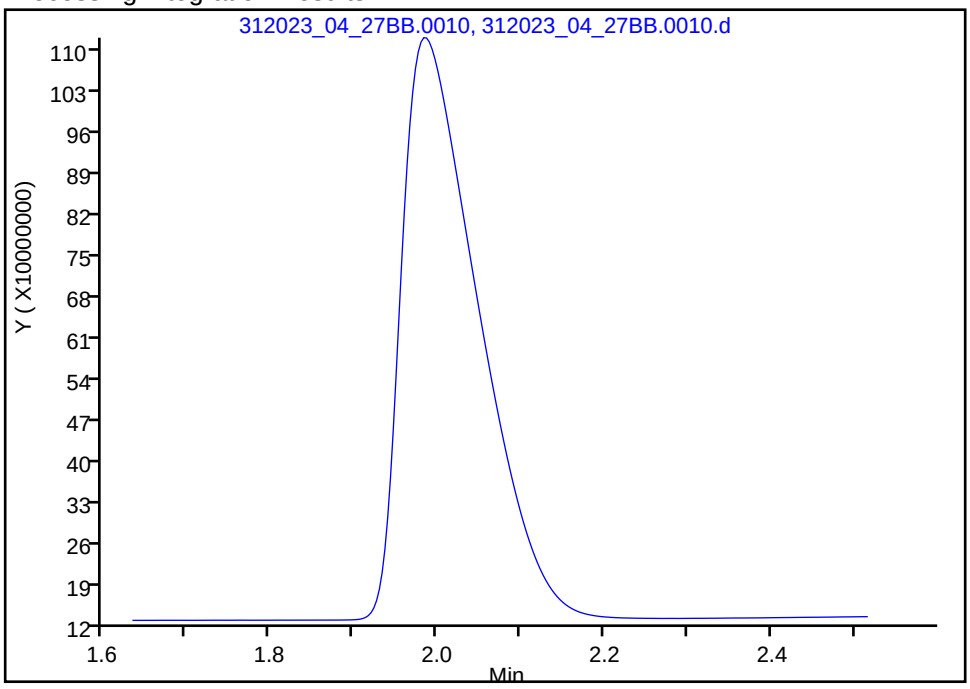
Data File:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0010.d		
Injection Date:	27-Apr-2023 10:37:00	Instrument ID:	19506-B
Lims ID:	ic		
Client ID:			
Operator ID:		ALS Bottle#:	0 Worklist Smp#: 10
Purge Vol:	1.000 mL	Dil. Factor:	1.0000
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2
Column:	HP Plot (0.00 mm)	Detector	0FIDA

1 Carbon dioxide, CAS: 124-38-9

Signal: 1

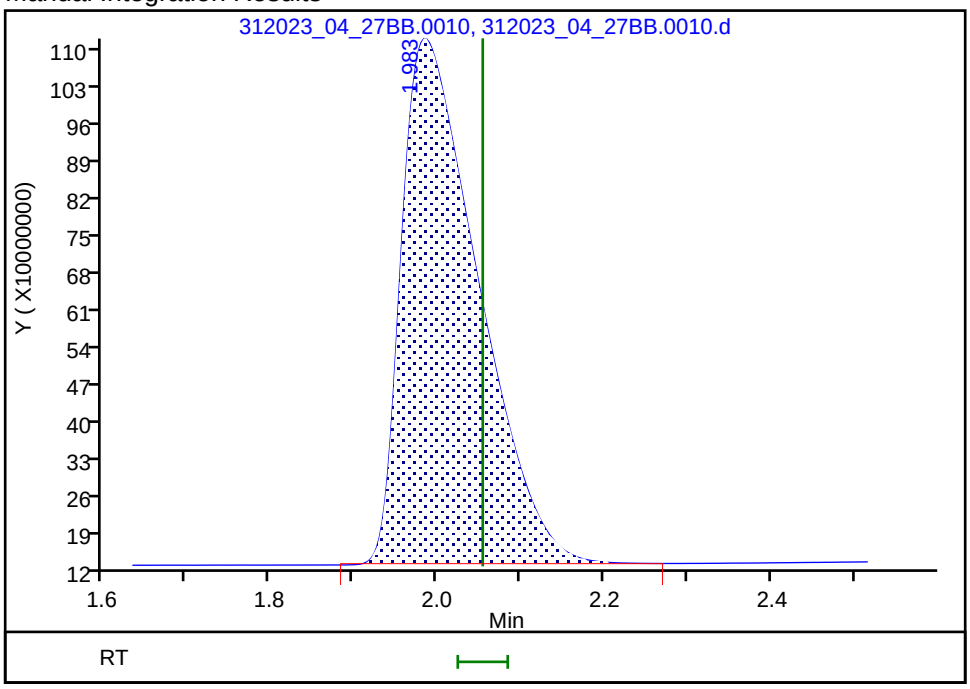
Not Detected
Expected RT: 2.05

Processing Integration Results



Manual Integration Results

RT: 1.98
Height: 989211697
Amount: 300661
Amount Units: ug/l



Reviewer: WN7O, 28-Apr-2023 07:17:41
Audit Action: Manually Integrated
Audit Reason: Baseline Smoothing

Calibration / Carbon dioxide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	HEIGHT
RF Rounding:	0

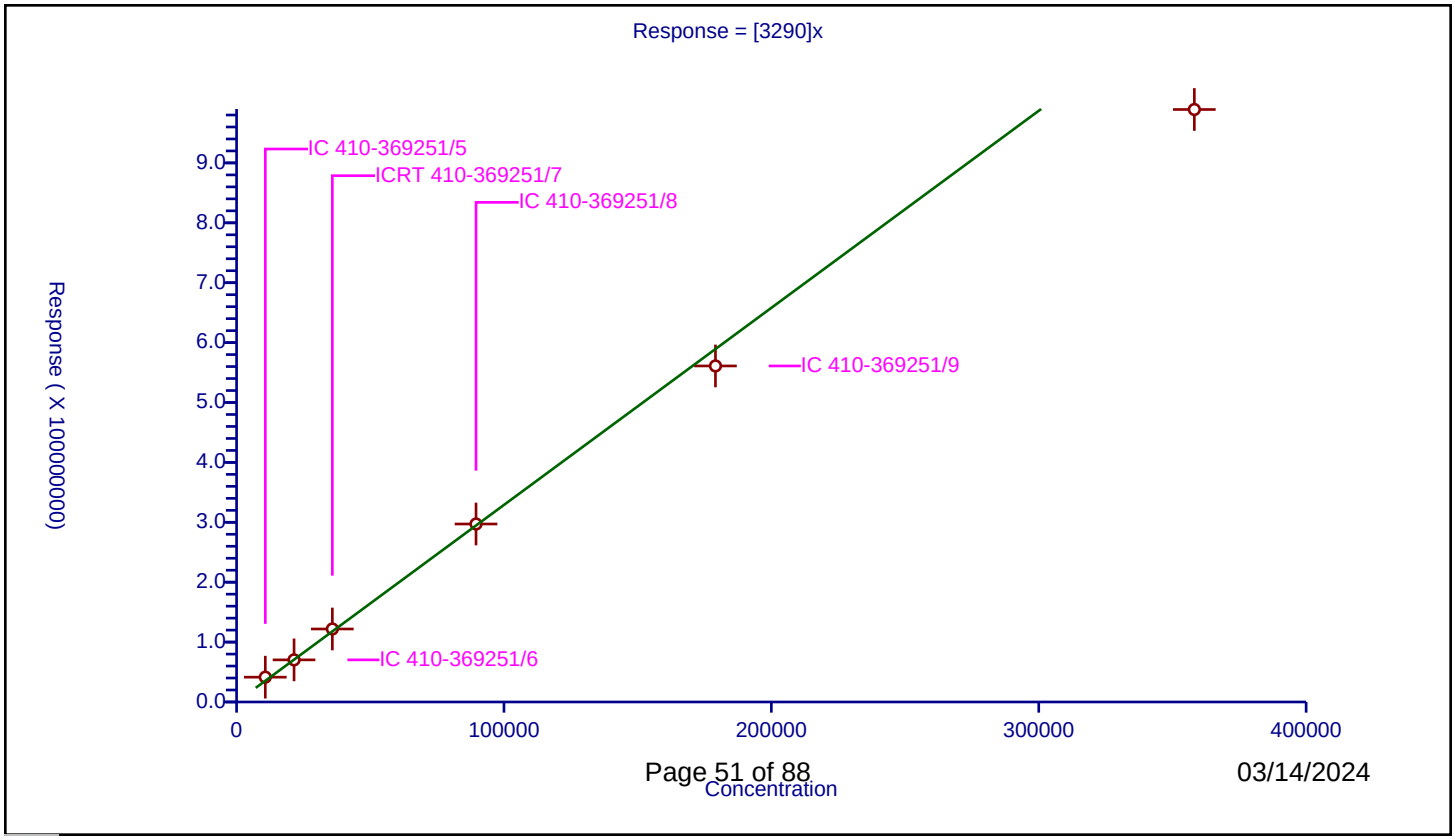
Curve Coefficients

Intercept:	0
Slope:	3290

Error Coefficients

Standard Error:	85700000
Relative Standard Error:	10.8
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.977

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 410-369251/5	10746.0	41411686.0			3853.683789	Y
2	IC 410-369251/6	21492.0	70308888.0			3271.398102	Y
3	ICRT 410-369251/7	35820.0	121893696.0			3402.950754	Y
4	IC 410-369251/8	89550.0	297170647.0			3318.48852	Y
5	IC 410-369251/9	179100.0	561047460.0			3132.5933	Y
6	IC 410-369251/10	358200.0	989211697.0			2761.618361	Y



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-162062-1

SDG No.:

Lab Sample ID: ICV 410-369251/13 Calibration Date: 04/27/2023 11:01

Instrument ID: 19506-B Calib Start Date: 04/27/2023 09:59

GC Column: HP Plot ID: 0.53(mm) Calib End Date: 04/27/2023 10:37

Lab File ID: 312023_04_27BB.0013.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Carbon dioxide	Ave	3290	3122		33200	35000	-5.1	15.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-162062-1

SDG No.:

Lab Sample ID: ICV 410-369251/13 Calibration Date: 04/27/2023 11:01

Instrument ID: 19506-B Calib Start Date: 04/27/2023 09:59

GC Column: HP Plot ID: 0.53(mm) Calib End Date: 04/27/2023 10:37

Lab File ID: 312023_04_27BB.0013.d Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Carbon dioxide	2.06	2.02	2.08

Report Date: 28-Apr-2023 08:51:00 Chrom Revision: 2.3 20-Apr-2023 08:27:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0013.d				
Lims ID:	icv				
Client ID:					
Sample Type:	ICV				
Inject. Date:	27-Apr-2023 11:01:00	ALS Bottle#:	0	Worklist Smp#:	13
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0082537-013				
Operator ID:		Instrument ID:	19506-B		
Sublist:					
Method:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	28-Apr-2023 08:50:24	Calib Date:	27-Apr-2023 10:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0010.d				
Column 1 :	HP Plot (0.00 mm)		Det: 0FIDA		
Process Host:	CTX1654				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.057	2.054	0.003	109307674	H 35008	33223	

Reagents:

EPH_CO2ICV_00002 Amount Added: 320.00 Units: uL

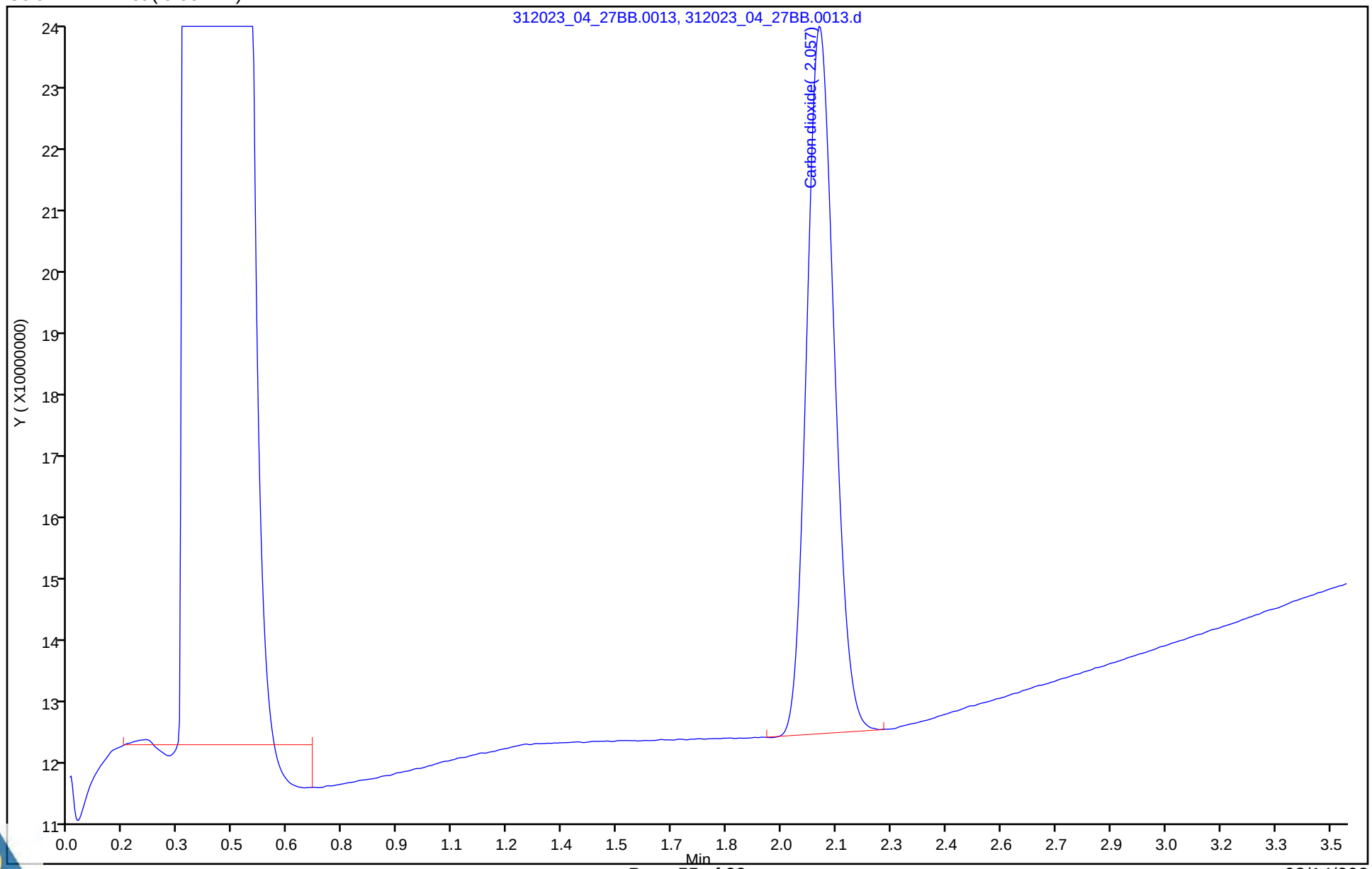
Report Date: 28-Apr-2023 08:51:00 Chrom Revision: 2.3 20-Apr-2023 08:27:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0013.d

Injection Date:	27-Apr-2023 11:01:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	icv			Worklist Smp#:	13
Client ID:					
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: HP Plot (0.00 mm)



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-162062-1

SDG No.:

Lab Sample ID: CCVRT 410-479281/2 Calibration Date: 03/04/2024 10:10

Instrument ID: 19506-B Calib Start Date: 04/27/2023 09:59

GC Column: 19809 ID: 1.00(mm) Calib End Date: 04/27/2023 10:37

Lab File ID: 312024_3_4BB.0002.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Carbon dioxide	Ave	3290	3636		39600	35800	10.5	15.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-162062-1

SDG No.:

Lab Sample ID: CCVRT 410-479281/2 Calibration Date: 03/04/2024 10:10

Instrument ID: 19506-B Calib Start Date: 04/27/2023 09:59

GC Column: 19809 ID: 1.00(mm) Calib End Date: 04/27/2023 10:37

Lab File ID: 312024_3_4BB.0002.d Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Carbon dioxide	2.05	2.02	2.08

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240304-107769.b\312024_3_4BB.0002.d				
Lims ID:	ccvrt				
Client ID:					
Sample Type:	CCVRT				
Inject. Date:	04-Mar-2024 10:10:00	ALS Bottle#:	0	Worklist Smp#:	2
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:	ccvrt				
Misc. Info.:	410-0107769-002				
Operator ID:		Instrument ID:	19506-B		
Sublist:	chrom-RSK_CO2_19506B*sub1				
Method:	\\chromfs\Lancaster\ChromData\19506-B\20240304-107769.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	05-Mar-2024 04:07:05	Calib Date:	27-Apr-2023 10:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0010.d				
Column 1 :	ShinCarbon ST Microplacked GC (1.00 mm)		Det: 0FIDA		
Process Host:	CTX1650				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.045	2.045	0.000	130226317	H 35820	39581	

Reagents:

EPH_CO2MS_00006 Amount Added: 100.00 Units: uL

Report Date: 05-Mar-2024 04:07:06 Chrom Revision: 2.3 23-Feb-2024 16:51:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240304-107769.b\312024_3_4BB.0002.d

Injection Date: 04-Mar-2024 10:10:00 Instrument ID: 19506-B Operator ID:

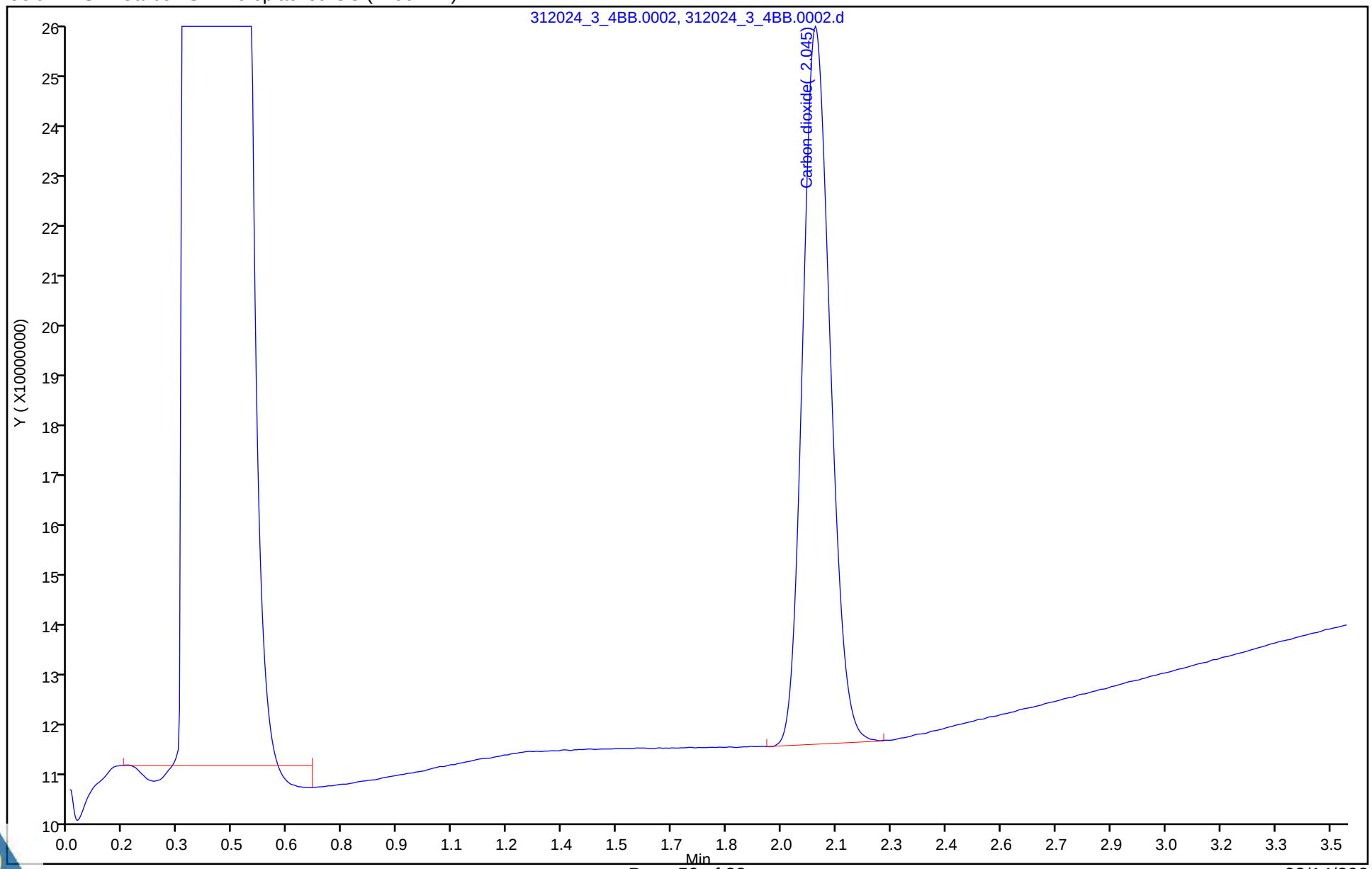
Lims ID: ccvrt Worklist Smp#: 2

Client ID:

Purge Vol: 1.000 mL Dil. Factor: 1.0000 ALS Bottle#: 0

Method: RSK_CO2_19506B Limit Group: GCV - RSK175 CO2

Column: ShinCarbon ST Microplacked GC (1.00 mm)



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-162062-1

SDG No.:

Lab Sample ID: CCV 410-479281/13 Calibration Date: 03/04/2024 12:13

Instrument ID: 19506-B Calib Start Date: 04/27/2023 09:59

GC Column: 19809 ID: 1.00(mm) Calib End Date: 04/27/2023 10:37

Lab File ID: 312024_3_4BB.0013.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Carbon dioxide	Ave	3290	2946		32100	35800	-10.4	15.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-162062-1

SDG No.:

Lab Sample ID: CCV 410-479281/13
Calibration Date: 03/04/2024 12:13

Instrument ID: 19506-B
Calib Start Date: 04/27/2023 09:59

GC Column: 19809 ID: 1.00(mm)
Calib End Date: 04/27/2023 10:37

Lab File ID: 312024_3_4BB.0013.d
Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Carbon dioxide	2.05	2.02	2.08

Report Date: 05-Mar-2024 04:07:09 Chrom Revision: 2.3 23-Feb-2024 16:51:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240304-107769.b\312024_3_4BB.0013.d				
Lims ID:	ccv				
Client ID:					
Sample Type:	CCV				
Inject. Date:	04-Mar-2024 12:13:00	ALS Bottle#:	0	Worklist Smp#:	13
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0107769-013				
Operator ID:		Instrument ID:	19506-B		
Sublist:	chrom-RSK_CO2_19506B*sub1				
Method:	\\chromfs\Lancaster\ChromData\19506-B\20240304-107769.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	05-Mar-2024 04:07:09	Calib Date:	27-Apr-2023 10:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0010.d				
Column 1 :	ShinCarbon ST Microplacked GC (1.00 mm)		Det: 0FIDA		
Process Host:	CTX1650				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.053	2.045	0.008	105541510	H 35820	32078	

Reagents:

EPH_CO2MS_00006 Amount Added: 100.00 Units: uL

Report Date: 05-Mar-2024 04:07:09 Chrom Revision: 2.3 23-Feb-2024 16:51:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240304-107769.b\312024_3_4BB.0013.d

Injection Date: 04-Mar-2024 12:13:00 Instrument ID: 19506-B Operator ID:

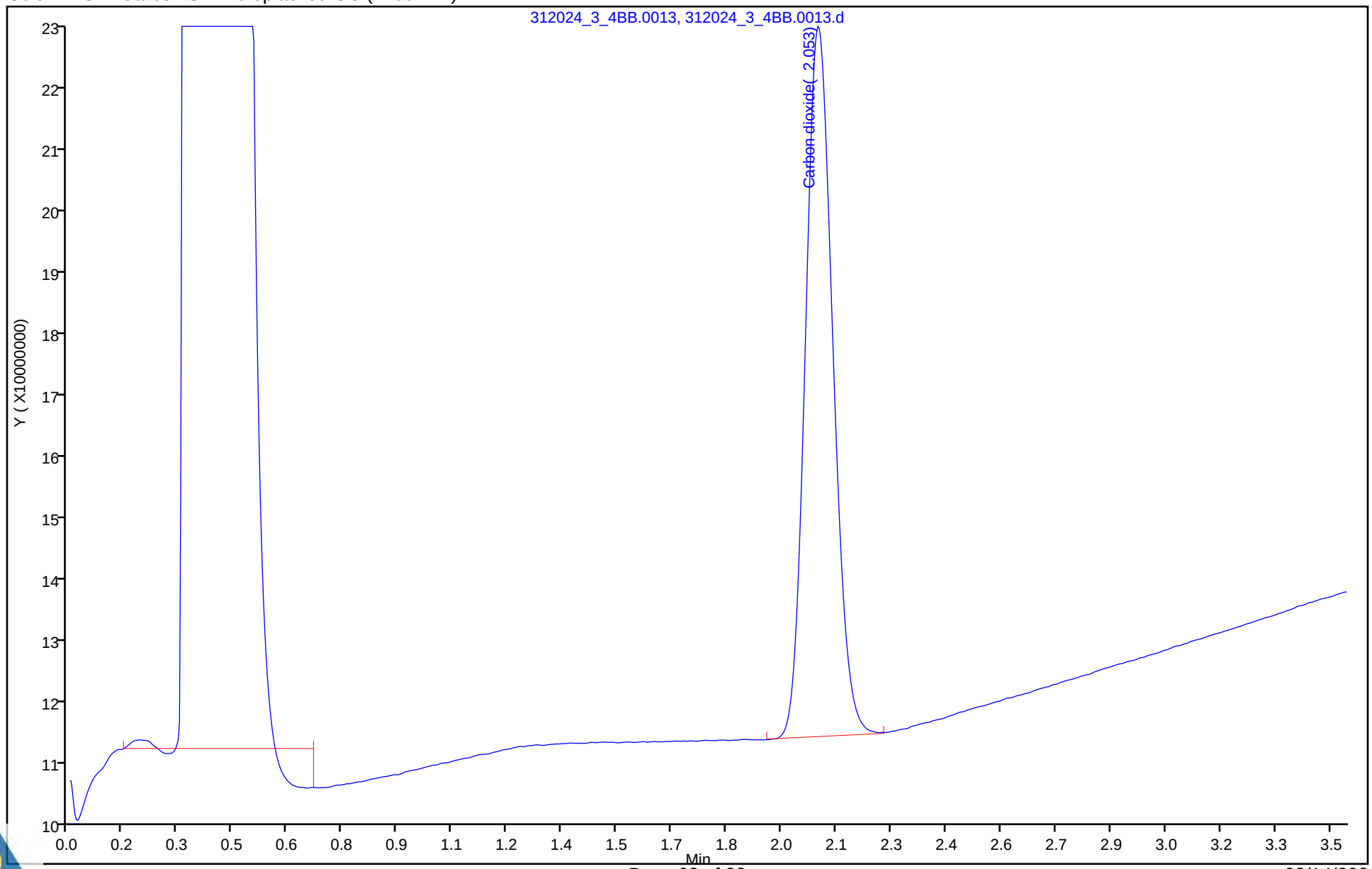
Lims ID: ccv Worklist Smp#: 13

Client ID:

Purge Vol: 1.000 mL Dil. Factor: 1.0000 ALS Bottle#: 0

Method: RSK_CO2_19506B Limit Group: GCV - RSK175 CO2

Column: ShinCarbon ST Microplacked GC (1.00 mm)



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-162062-1

SDG No.:

Lab Sample ID: CCV 410-479281/22 Calibration Date: 03/04/2024 13:41

Instrument ID: 19506-B Calib Start Date: 04/27/2023 09:59

GC Column: 19809 ID: 1.00(mm) Calib End Date: 04/27/2023 10:37

Lab File ID: 312024_3_4BB.0022.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Carbon dioxide	Ave	3290	3110		33900	35800	-5.5	15.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-162062-1

SDG No.:

Lab Sample ID: CCV 410-479281/22 Calibration Date: 03/04/2024 13:41

Instrument ID: 19506-B Calib Start Date: 04/27/2023 09:59

GC Column: 19809 ID: 1.00(mm) Calib End Date: 04/27/2023 10:37

Lab File ID: 312024_3_4BB.0022.d Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Carbon dioxide	2.05	2.02	2.08

Report Date: 05-Mar-2024 04:07:12 Chrom Revision: 2.3 23-Feb-2024 16:51:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240304-107769.b\312024_3_4BB.0022.d				
Lims ID:	ccv				
Client ID:					
Sample Type:	CCV				
Inject. Date:	04-Mar-2024 13:41:00	ALS Bottle#:	0	Worklist Smp#:	22
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0107769-022				
Operator ID:		Instrument ID:	19506-B		
Sublist:	chrom-RSK_CO2_19506B*sub1				
Method:	\\chromfs\Lancaster\ChromData\19506-B\20240304-107769.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	05-Mar-2024 04:07:12	Calib Date:	27-Apr-2023 10:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0010.d				
Column 1 :	ShinCarbon ST Microplacked GC (1.00 mm)		Det: 0FIDA		
Process Host:	CTX1650				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.052	2.045	0.007	111406185	H 35820	33861	

Reagents:

EPH_CO2MS_00006 Amount Added: 100.00 Units: uL

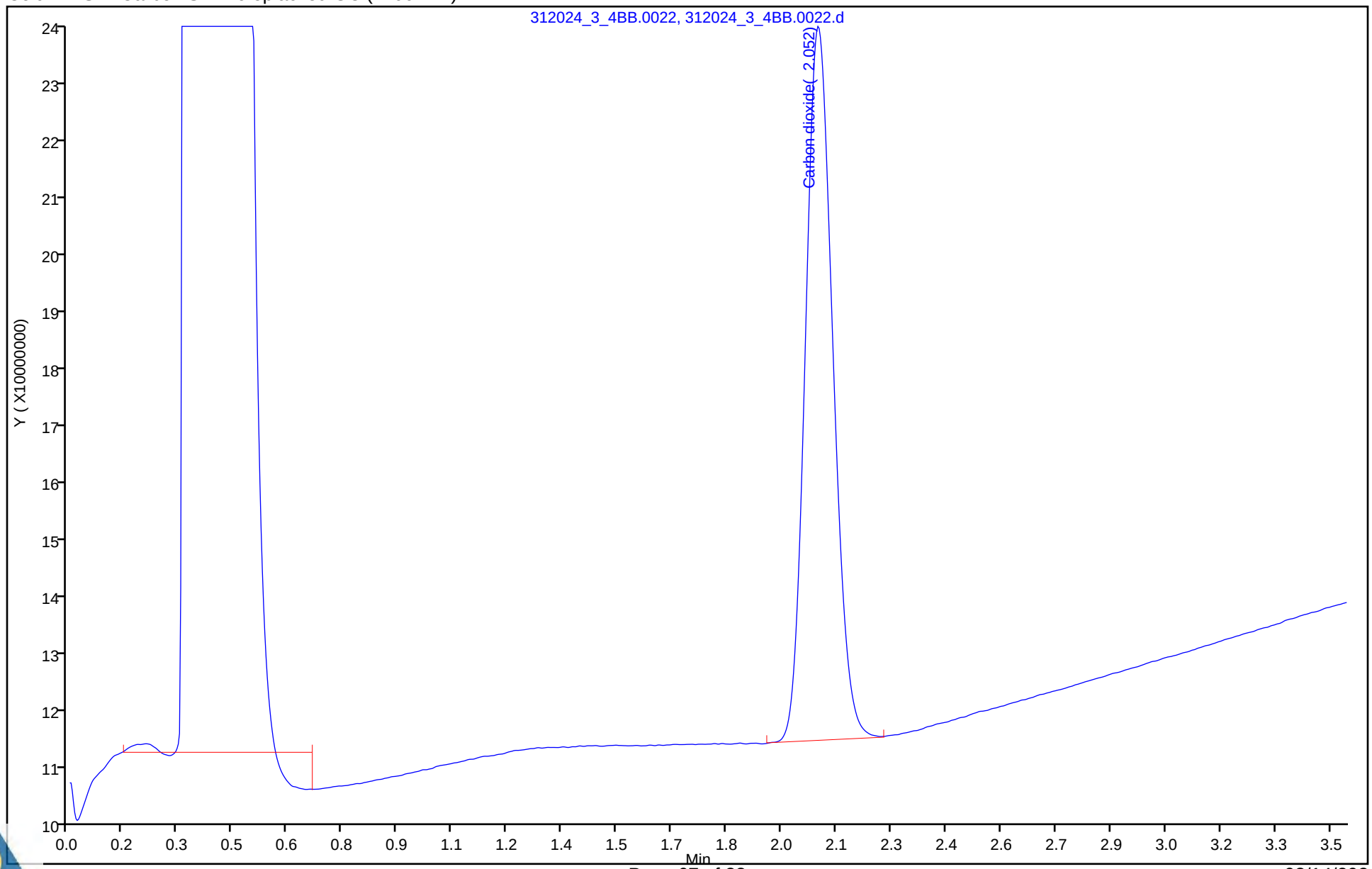
Report Date: 05-Mar-2024 04:07:12 Chrom Revision: 2.3 23-Feb-2024 16:51:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240304-107769.b\312024_3_4BB.0022.d

Injection Date:	04-Mar-2024 13:41:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	ccv			Worklist Smp#:	22
Client ID:					
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: ShinCarbon ST Microplacked GC (1.00 mm)



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-162062-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-479323/1-A

Matrix: Water Lab File ID: 312024_3_4BB.0003.d

Analysis Method: RSK-175 Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/04/2024 10:41

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: 19809 ID: 1(mm)

Purge Volume: Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 479281 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-38-9	Carbon dioxide	<5600		12000	5600

Report Date: 05-Mar-2024 04:07:06 Chrom Revision: 2.3 23-Feb-2024 16:51:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240304-107769.b\312024_3_4BB.0003.d				
Lims ID:	MB 410-479323/1-A				
Client ID:					
Sample Type:	MB				
Inject. Date:	04-Mar-2024 10:41:00	ALS Bottle#:	0	Worklist Smp#:	3
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0107769-003				
Operator ID:		Instrument ID:	19506-B		
Method:	\\chromfs\Lancaster\ChromData\19506-B\20240304-107769.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	05-Mar-2024 04:07:05	Calib Date:	27-Apr-2023 10:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0010.d				
Column 1 :	ShinCarbon ST Microplacked GC (1.00 mm)		Det: 0FIDA		
Process Host:	CTX1650				
First Level Reviewer: LXF2		Date:	05-Mar-2024 04:06:21		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.053	2.045	0.008	1312431H		398.9	Ma

QC Flag Legend

Processing Flags

H - Response Measured by Height

Review Flags

M - Manually Integrated

a - User Assigned ID

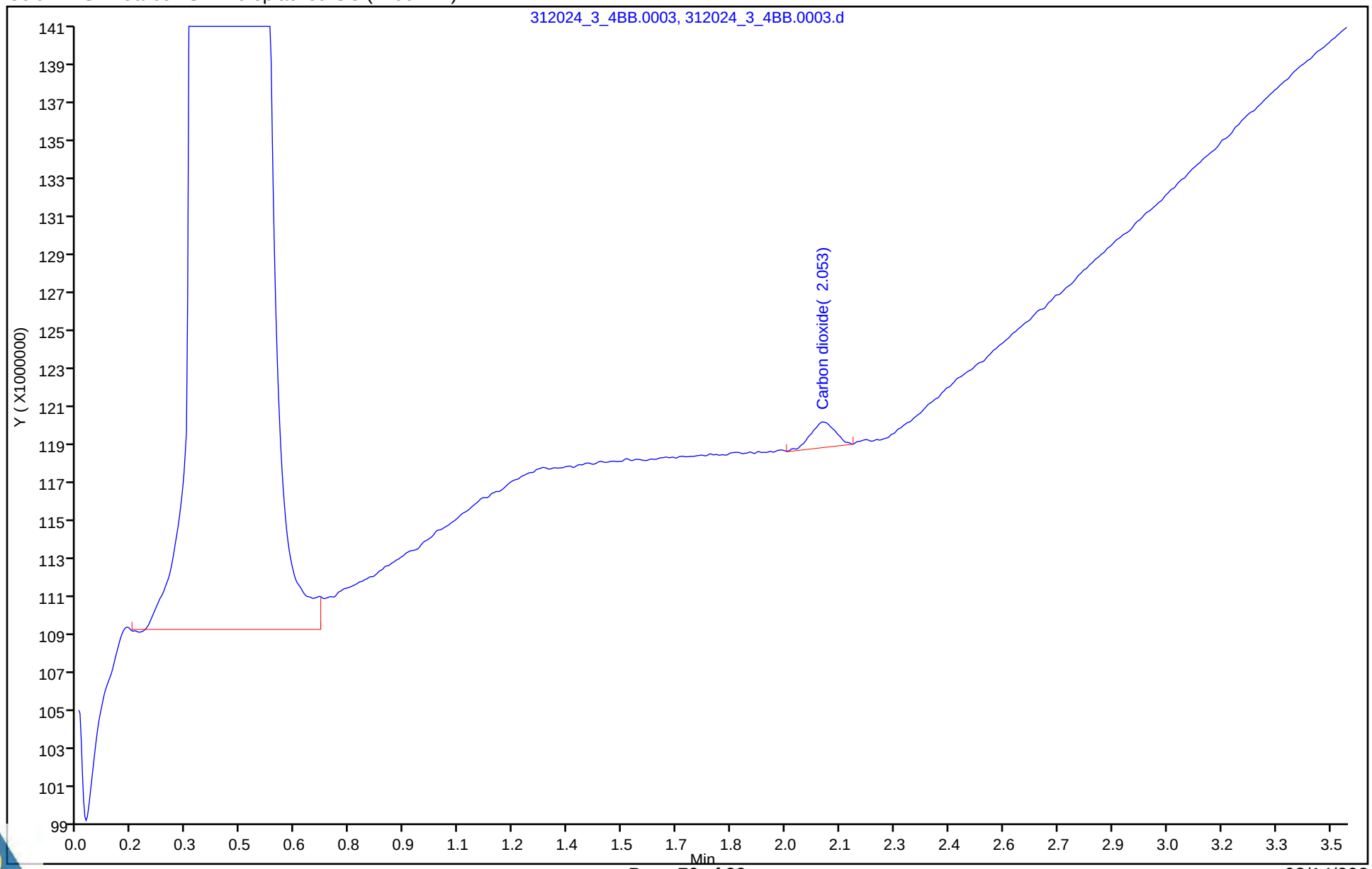
Report Date: 05-Mar-2024 04:07:06 Chrom Revision: 2.3 23-Feb-2024 16:51:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240304-107769.b\312024_3_4BB.0003.d

Injection Date:	04-Mar-2024 10:41:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	MB 410-479323/1-A			Worklist Smp#:	3
Client ID:					
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: ShinCarbon ST Microplacked GC (1.00 mm)



Report Date: 05-Mar-2024 04:07:06 Chrom Revision: 2.3 23-Feb-2024 16:51:14

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

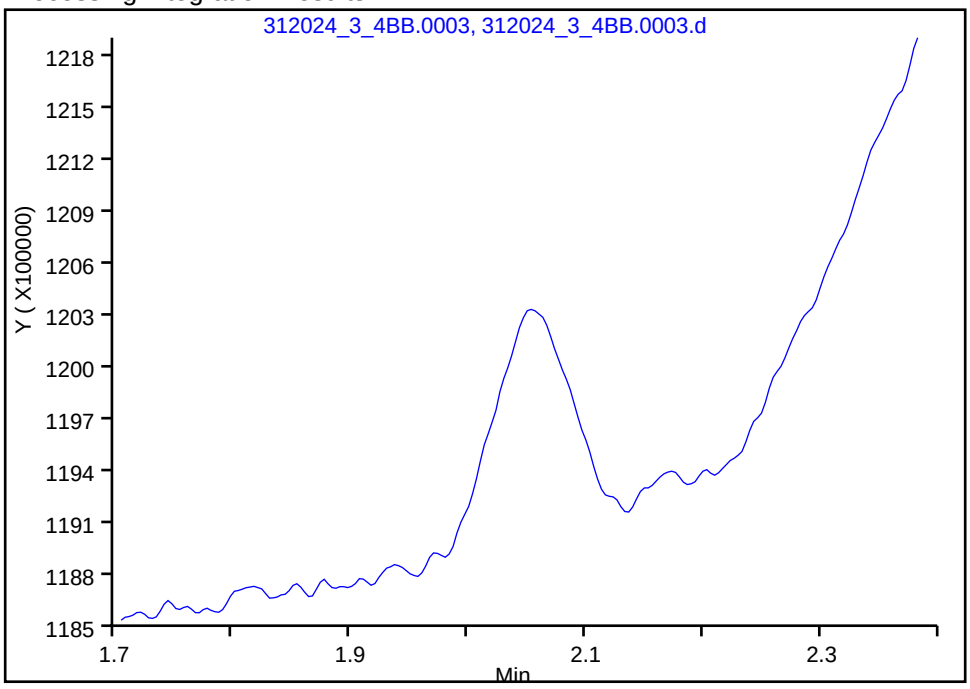
Data File: \\chromfs\Lancaster\ChromData\19506-B\20240304-107769.b\312024_3_4BB.0003.d
Injection Date: 04-Mar-2024 10:41:00 Instrument ID: 19506-B
Lims ID: MB 410-479323/1-A
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 3
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Method: RSK_CO2_19506B Limit Group: GCV - RSK175 CO2
Column: ShinCarbon ST Microplacked GC (1.00 mm) Detector 0FIDA

1 Carbon dioxide, CAS: 124-38-9

Signal: 1

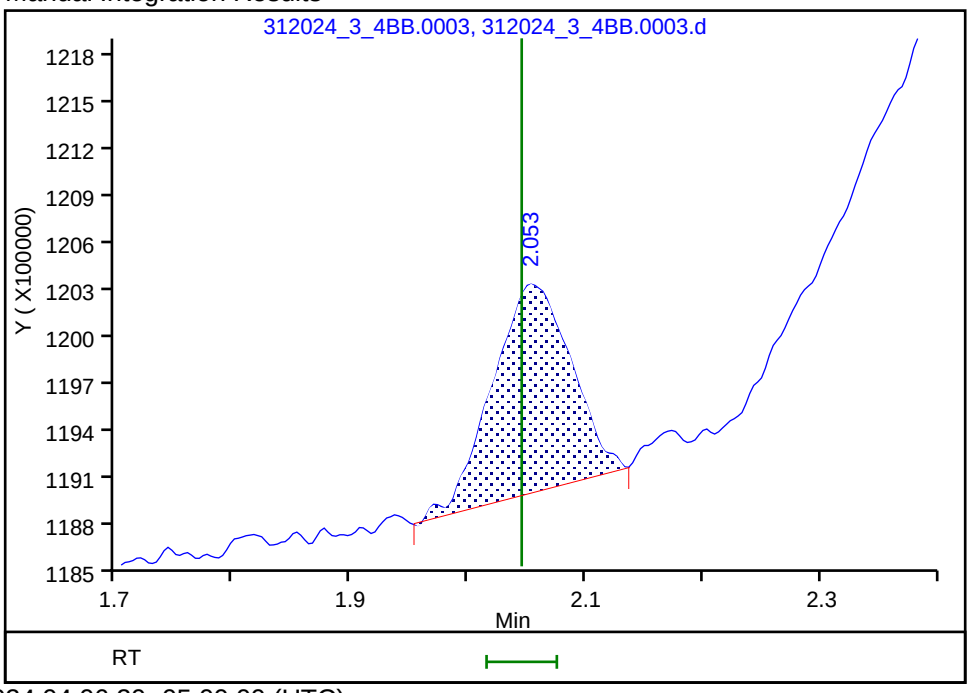
Not Detected
Expected RT: 2.05

Processing Integration Results



Manual Integration Results

RT: 2.05
Height: 1312431
Amount: 398.9004
Amount Units: ug/l



Reviewer: LXF2, 05-Mar-2024 04:06:20 -05:00:00 (UTC)
Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Peak not integrated

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-162062-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-479323/2-A

Matrix: Water Lab File ID: 312024_3_4BB.0004.d

Analysis Method: RSK-175 Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/04/2024 10:48

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: 19809 ID: 1(mm)

Purge Volume: Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 479281 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-38-9	Carbon dioxide	36400		12000	5600

Report Date: 05-Mar-2024 04:07:06 Chrom Revision: 2.3 23-Feb-2024 16:51:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240304-107769.b\312024_3_4BB.0004.d
Lims ID: LCS 410-479323/2-A
Client ID:
Sample Type: LCS
Inject. Date: 04-Mar-2024 10:48:00 ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 410-0107769-004
Operator ID: Instrument ID: 19506-B

Method: \\chromfs\Lancaster\ChromData\19506-B\20240304-107769.b\RSK_CO2_19506B.m
Limit Group: GCV - RSK175 CO2
Last Update: 05-Mar-2024 04:07:05 Calib Date: 27-Apr-2023 10:37:00
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0010.d

Column 1 : ShinCarbon ST Microplacked GC (1.00 mm) Det: 0FIDA
Process Host: CTX1650

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.048	2.045	0.003	119892630	H 35820	36440	

Report Date: 05-Mar-2024 04:07:06 Chrom Revision: 2.3 23-Feb-2024 16:51:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240304-107769.b\312024_3_4BB.0004.d

Injection Date: 04-Mar-2024 10:48:00 Instrument ID: 19506-B Operator ID:

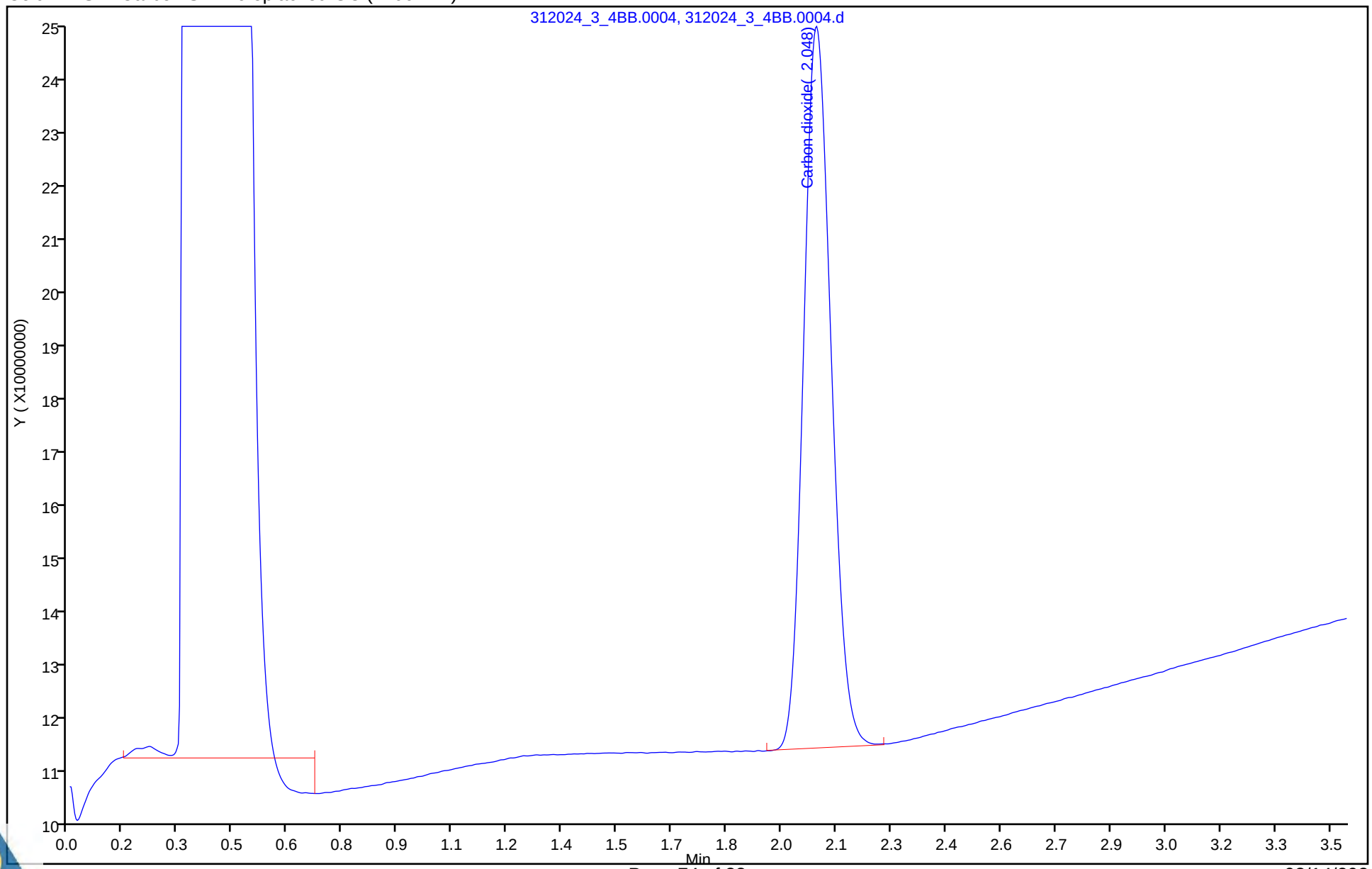
Lims ID: LCS 410-479323/2-A Worklist Smp#: 4

Client ID:

Purge Vol: 1.000 mL Dil. Factor: 1.0000 ALS Bottle#: 0

Method: RSK_CO2_19506B Limit Group: GCV - RSK175 CO2

Column: ShinCarbon ST Microplacked GC (1.00 mm)



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-162062-1

SDG No.:

Client Sample ID: HS24021563-02 46WW02-240226 MS
Lab Sample ID: 410-162062-1 MS

Matrix: Water
Lab File ID: 312024_3_4BB.0011.d

Analysis Method: RSK-175
Date Collected: 02/26/2024 08:15

Sample wt/vol: 5(mL)
Date Analyzed: 03/04/2024 11:57

Soil Aliquot Vol:
Dilution Factor: 1

Soil Extract Vol.:
GC Column: 19809 ID: 1(mm)

Purge Volume:
Heated Purge: (Y/N) N pH: 7.0

% Moisture: % Solids:
Level: (low/med) Low

Analysis Batch No.: 479281
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-38-9	Carbon dioxide	96200		12000	5600

Report Date: 05-Mar-2024 04:07:09 Chrom Revision: 2.3 23-Feb-2024 16:51:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240304-107769.b\312024_3_4BB.0011.d				
Lims ID:	410-162062-A-1-B MS				
Client ID:	HS24021563-02 46WW02-240226				
Sample Type:	MS				
Inject. Date:	04-Mar-2024 11:57:00	ALS Bottle#:	0	Worklist Smp#:	11
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0107769-011				
Operator ID:		Instrument ID:	19506-B		
Method:	\\chromfs\Lancaster\ChromData\19506-B\20240304-107769.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	05-Mar-2024 04:07:05	Calib Date:	27-Apr-2023 10:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0010.d				
Column 1 :	ShinCarbon ST Microplacked GC (1.00 mm)		Det: 0FIDA		
Process Host:	CTX1650				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.036	2.045	-0.009	316637894	H 35820	96239	

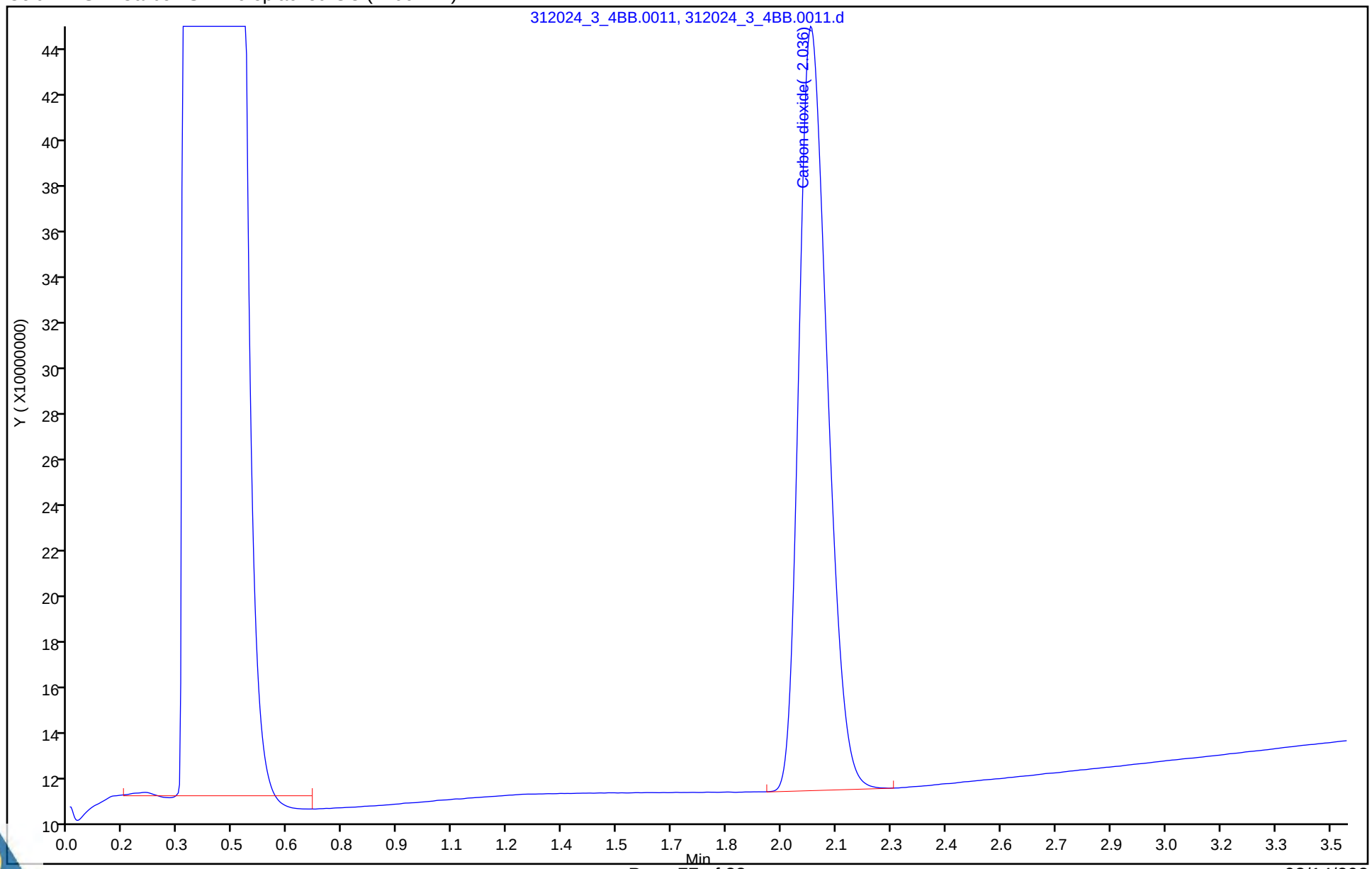
Report Date: 05-Mar-2024 04:07:09 Chrom Revision: 2.3 23-Feb-2024 16:51:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240304-107769.b\312024_3_4BB.0011.d

Injection Date:	04-Mar-2024 11:57:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	410-162062-A-1-B MS			Worklist Smp#:	11
Client ID:	HS24021563-02 46WW02-240226				
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: ShinCarbon ST Microplacked GC (1.00 mm)



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-162062-1

SDG No.:

Client Sample ID: HS24021563-02 46WW02-240226 MSD
Lab Sample ID: 410-162062-1 MSD

Matrix: Water
Lab File ID: 312024_3_4BB.0012.d

Analysis Method: RSK-175
Date Collected: 02/26/2024 08:15

Sample wt/vol: 5(mL)
Date Analyzed: 03/04/2024 12:05

Soil Aliquot Vol:
Dilution Factor: 1

Soil Extract Vol.:
GC Column: 19809 ID: 1(mm)

Purge Volume:
Heated Purge: (Y/N) N pH: 7.0

% Moisture: % Solids:
Level: (low/med) Low

Analysis Batch No.: 479281
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-38-9	Carbon dioxide	94200		12000	5600

Report Date: 05-Mar-2024 04:07:09 Chrom Revision: 2.3 23-Feb-2024 16:51:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240304-107769.b\312024_3_4BB.0012.d				
Lims ID:	410-162062-A-1-C MSD				
Client ID:	HS24021563-02 46WW02-240226				
Sample Type:	MSD				
Inject. Date:	04-Mar-2024 12:05:00	ALS Bottle#:	0	Worklist Smp#:	12
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0107769-012				
Operator ID:		Instrument ID:	19506-B		
Method:	\\chromfs\Lancaster\ChromData\19506-B\20240304-107769.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	05-Mar-2024 04:07:05	Calib Date:	27-Apr-2023 10:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0010.d				
Column 1 :	ShinCarbon ST Microplacked GC (1.00 mm)		Det: 0FIDA		
Process Host:	CTX1650				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.037	2.045	-0.008	309783668	H 35820	94156	

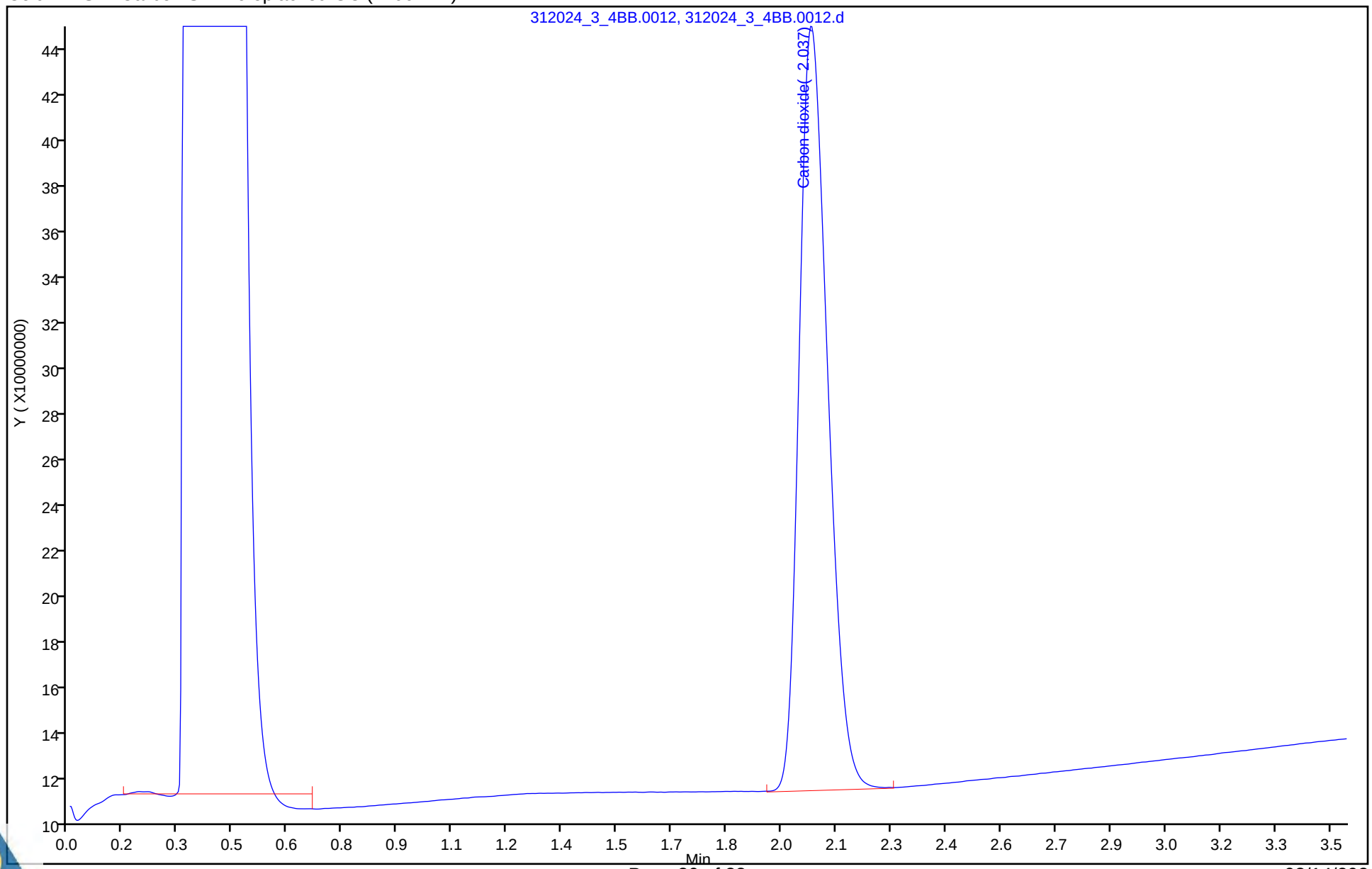
Report Date: 05-Mar-2024 04:07:09 Chrom Revision: 2.3 23-Feb-2024 16:51:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240304-107769.b\312024_3_4BB.0012.d

Injection Date:	04-Mar-2024 12:05:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	410-162062-A-1-C MSD			Worklist Smp#:	12
Client ID:	HS24021563-02 46WW02-240226				
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: ShinCarbon ST Microplacked GC (1.00 mm)



GC VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-162062-1

SDG No.:

Instrument ID: 19506-B Start Date: 04/27/2023 09:16

Analysis Batch Number: 369251 End Date: 04/27/2023 17:34

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
PIBLK 410-369251/3		04/27/2023 09:16	1		HP Plot 0.53(mm)
IC 410-369251/5		04/27/2023 09:59	1	312023_04_27BB.0005.d	HP Plot 0.53(mm)
IC 410-369251/6		04/27/2023 10:06	1	312023_04_27BB.0006.d	HP Plot 0.53(mm)
ICRT 410-369251/7		04/27/2023 10:14	1	312023_04_27BB.0007.d	HP Plot 0.53(mm)
IC 410-369251/8		04/27/2023 10:22	1	312023_04_27BB.0008.d	HP Plot 0.53(mm)
IC 410-369251/9		04/27/2023 10:30	1	312023_04_27BB.0009.d	HP Plot 0.53(mm)
IC 410-369251/10		04/27/2023 10:37	1	312023_04_27BB.0010.d	HP Plot 0.53(mm)
PIBLK 410-369251/11		04/27/2023 10:45	1		HP Plot 0.53(mm)
ICVL 410-369251/12		04/27/2023 10:53	1		HP Plot 0.53(mm)
ICV 410-369251/13		04/27/2023 11:01	1	312023_04_27BB.0013.d	HP Plot 0.53(mm)
ZZZZZ		04/27/2023 11:45	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 11:52	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 12:01	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 12:08	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 12:16	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 12:24	1		HP Plot 0.53(mm)
CCV 410-369251/20		04/27/2023 12:31	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 13:03	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 13:10	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 13:18	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 13:26	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 13:33	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 13:41	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 13:49	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 13:57	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 14:04	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 14:12	1		HP Plot 0.53(mm)
CCV 410-369251/31		04/27/2023 14:20	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 14:38	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 14:50	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 14:58	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 15:06	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 15:15	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 15:23	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 15:31	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 15:39	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 15:47	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 15:56	1		HP Plot 0.53(mm)
CCV 410-369251/42		04/27/2023 16:04	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 16:12	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 16:20	1		HP Plot 0.53(mm)

GC VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC

Job No.: 410-162062-1

SDG No.:

Instrument ID: 19506-B

Start Date: 04/27/2023 09:16

Analysis Batch Number: 369251

End Date: 04/27/2023 17:34

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/27/2023 16:28	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 16:37	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 16:45	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 16:53	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 17:01	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 17:09	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 17:18	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 17:26	1		HP Plot 0.53(mm)
CCV 410-369251/53		04/27/2023 17:34	1		HP Plot 0.53(mm)

GC VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-162062-1

SDG No.:

Instrument ID: 19506-B Start Date: 03/04/2024 10:10

Analysis Batch Number: 479281 End Date: 03/04/2024 13:41

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVRT 410-479281/2		03/04/2024 10:10	1	312024_3_4BB.0002.d	19809 1(mm)
MB 410-479323/1-A		03/04/2024 10:41	1	312024_3_4BB.0003.d	19809 1(mm)
LCS 410-479323/2-A		03/04/2024 10:48	1	312024_3_4BB.0004.d	19809 1(mm)
ZZZZZ		03/04/2024 11:11	1		19809 1(mm)
ZZZZZ		03/04/2024 11:18	1		19809 1(mm)
ZZZZZ		03/04/2024 11:27	1		19809 1(mm)
ZZZZZ		03/04/2024 11:34	1		19809 1(mm)
ZZZZZ		03/04/2024 11:42	1		19809 1(mm)
410-162062-1	HS24021563-02 46WW02-240226	03/04/2024 11:49	1	312024_3_4BB.0010.d	19809 1(mm)
410-162062-1 MS	HS24021563-02 46WW02-240226 MS	03/04/2024 11:57	1	312024_3_4BB.0011.d	19809 1(mm)
410-162062-1 MSD	HS24021563-02 46WW02-240226 MSD	03/04/2024 12:05	1	312024_3_4BB.0012.d	19809 1(mm)
CCV 410-479281/13		03/04/2024 12:13	1	312024_3_4BB.0013.d	19809 1(mm)
410-162062-2	HS24021563-05 46WW16-240226	03/04/2024 12:40	1	312024_3_4BB.0014.d	19809 1(mm)
410-162062-3	HS24021563-06 46WW05-240226	03/04/2024 12:47	1	312024_3_4BB.0015.d	19809 1(mm)
ZZZZZ		03/04/2024 12:55	1		19809 1(mm)
ZZZZZ		03/04/2024 13:03	1		19809 1(mm)
ZZZZZ		03/04/2024 13:10	1		19809 1(mm)
ZZZZZ		03/04/2024 13:18	1		19809 1(mm)
ZZZZZ		03/04/2024 13:26	1		19809 1(mm)
ZZZZZ		03/04/2024 13:33	1		19809 1(mm)
CCV 410-479281/22		03/04/2024 13:41	1	312024_3_4BB.0022.d	19809 1(mm)

GC VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-162062-1

SDG No.:

Batch Number: 369251 Batch Start Date: 04/27/23 09:16 Batch Analyst: Kennedy, Johanna C

Batch Method: RSK-175 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	EPH_CO2ICV 00002	EPH_CO2MS 00004		
IC 410-369251/5		RSK-175			5 mL	5 mL		30 uL		
IC 410-369251/6		RSK-175			5 mL	5 mL		60 uL		
ICRT 410-369251/7		RSK-175			5 mL	5 mL		100 uL		
IC 410-369251/8		RSK-175			5 mL	5 mL		250 uL		
IC 410-369251/9		RSK-175			5 mL	5 mL		500 uL		
IC 410-369251/10		RSK-175			5 mL	5 mL		1000 uL		
ICV 410-369251/13		RSK-175			5 mL	5 mL	320 uL			

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-162062-1

SDG No.:

Batch Number: 479323 Batch Start Date: 03/04/24 10:36 Batch Analyst: Omorogbe, Malachi

Batch Method: RSK-175 Batch End Date: 03/04/24 11:04

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	Initial pH	InitialAmount	FinalAmount	Headspace	EPH_CO2MS 00006	AnalysisComment
MB 410-479323/1		RSK-175, RSK-175				5 mL	5 mL			
LCS 410-479323/2		RSK-175, RSK-175				5 mL	5 mL		0.1 mL	
410-162062-A-1	HS24021563-02 46WW02-240226	RSK-175, RSK-175	Water	T	7 SU	5 mL	5 mL	No		
410-162062-A-1 MS	HS24021563-02 46WW02-240226	RSK-175, RSK-175	Water	T	7 SU	5 mL	5 mL	No	0.1 mL	
410-162062-A-1 MSD	HS24021563-02 46WW02-240226	RSK-175, RSK-175	Water	T	7 SU	5 mL	5 mL	No	0.1 mL	
410-162062-A-2	HS24021563-05 46WW16-240226	RSK-175, RSK-175	Water	T	7 SU	5 mL	5 mL	No		
410-162062-A-3	HS24021563-06 46WW05-240226	RSK-175, RSK-175	Water	T	6 SU	5 mL	5 mL	No		ph 6

Batch Notes	
Pipette/Syringe/Dispenser ID	7105
pH Indicator ID	10BDH2631

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

410-162062 Chain of Custody

10450 Stancliff Rd, Ste 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

Subcontract Chain of Custody

SAMPLING STATE: **Colorado** **COC ID:** **24877**

SUBCONTRACT TO:

Eurofins Lancaster Laboratories Envt Testing
2425 New Holland Pike
Lancaster, PA 17601 **Phone:** +1 717 656 2300

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	James Guin
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	James.Guin@alsglobal.com
Alternate Contact:	Jumoke M. Lawal
Email:	jumoke.lawal@alsglobal.com

INVOICE INFORMATION:

Company:	ALS Houston
Contact:	Accounts Payable
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Reference:	HS24021563
TSR:	Sonia West

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS24021563-02**	**46WW02-240226**	**Groundwater**	**26 Feb 2024 08:15**
	RSK-CO2; DoD Level II & IV, Equ_APTIM_GISKey			12 Mar 2024
2.	**HS24021563-05**	**46WW16-240226**	**Groundwater**	**26 Feb 2024 10:35**
	RSK-CO2; DoD Level II & IV, Equ_APTIM_GISKey			12 Mar 2024
3.	**HS24021563-06**	**46WW05-240226**	**Groundwater**	**26 Feb 2024 11:20**
	RSK-CO2; DoD Level II & IV, Equ_APTIM_GISKey			12 Mar 2024

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.
Hs24021563-02 = ms/msd

QC Level: DOD IV (DoD Data Package)

Relinquished By: _____ Date/Time: FEB 27 2024 1200

Received By: _____ Date/Time: 2/28/24 09:40

Cooler ID(s): _____ Temperature(s): _____

B: 4.5
C: 4.4

Login Sample Receipt Checklist

Client: ALS Group USA, Corp

Job Number: 410-162062-1

Login Number: 162062
List Number: 1
Creator: Arroyo, Haley

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

QUARTERLY EVALUATION REPORT 2ND QUARTER (APRIL-JUNE) 2024 GROUNDWATER TREATMENT PLANT LONGHORN ARMY AMMUNITION PLANT KARNACK, TEXAS

March 2025

Prepared For:

Longhorn Army Ammunition Plant
Karnack, Texas

Under Contract To:



U.S. Army Corps of Engineers
Tulsa District
Tulsa, Oklahoma

Contract Number: W912BV23C0007
Solicitation Number: W912BV23R0022

Prepared By:

Poarch Creek Indians, Government Services, LLC and Bhate Environmental Services, Inc. Joint Venture
11921 Freedom Drive, Suite 550
Reston, VA 20190
1-251-333-1127

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ACRONYMS AND ABBREVIATIONS

<	Less than
≤	Less than or equal to
“	Inch
%	Percent
§	Section
°F	Degrees Fahrenheit
AECOM	AECOM Technical Services, Inc.
AIX	Sample collected after the first IX vessel
AMCV(s)	Air Monitoring Comparison Value(s)
amsl	Above mean sea level
Ark-La-Tex	Ark-La-Tex Electric
bgs	Below ground surface
Bhate	Bhate Environmental Associates, Inc.
BIX	Sample collected before the first IX vessel
BLOC	Bloc Design Build, LLC
C3H6	propene
CFC 11	trichlorofluoromethane
CFC 12	dichlorodifluoromethane
CFC 113	trichlorotrifluoroethane
COC	Chemical of Concern
DCA	Dichloroethane
DCE	Dichloroethene
DVQ	Data validation qualifier
ESD	Explanation of Significant Difference
ESL(s)	Effects Screening Level(s)
FBR	Fluidized bed reactor
ft	Feet or foot
gpd	Gallons per day
gph	Gallons per hour
gpm	Gallons per minute
GWTP	Groundwater Treatment Plant

HCl	Hydrochloric acid
HDPE	High density polyethylene
ICT(s)	Interception-collection trench(es)
INF	Intermediate-Range Nuclear Forces Treaty
IX	Ion exchange
J	Estimated concentration
J+	Concentration biased high
lbs/hr	Pounds per hour
LHAAP	Longhorn Army Ammunition Plant
MC	Methylene chloride
MCL(s)	Maximum Contaminant Level(s)
µg/L	Micrograms per liter
mg/L	Milligrams per liter
$Mg(OH)_2$	Magnesium hydroxide
mV	Millivolts
NA	Not applicable or not analyzed
NaOH	Sodium hydroxide
No.	Number
NV	No Value
ORP	Oxidation-reduction potential
PCE	Tetrachloroethene
PCL	Protective Concentration Level
pH	Potential of Hydrogen
PID	Photoionization detector
PLC	Programmable Logic Controller
psi	Pounds per square inch
ROD	Record of Decision
S.U.	Standard Unit
TAC	Texas Administrative Code
TCE	Trichloroethene
TCEQ	Texas Commission on Environmental Quality
TK	Tank

tpy	Tons per year
U	Non-detected, reported to the limit of detection
UJ	Estimated non-detect due to quality control discrepancy
USACE	United States Army Corps of Engineers
USEPA	United States Environmental Protection Agency
VC	Vinyl chloride
VOC(s)	Volatile Organic Compound(s)

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EXECUTIVE SUMMARY

The operation of the Groundwater Treatment Plant (GWTP) is part of the Interim Remedial Action at Burning Ground Number (No.) 3, also referred to as Longhorn Army Ammunition Plant (LHAAP)-18/24. A historical pilot test for nearby landfill LHAAP-16 resulted in the installation of eight extraction wells which also contributed groundwater to the GWTP, but ceased after implementation of the final remedy in September 2019. The groundwater treated from LHAAP-18/24 is discussed in detail within this report. However, the GWTP also receives and treats groundwater extracted from LHAAP-17, beginning in August 2022, which is discussed as part of the overall volume of water received and discharged.

The groundwater remediation processing for Burning Ground No. 3 at LHAAP includes the following operable systems:

- Equalization tank (water storage);
- Pretreatment system (metals removal);
- Sludge treatment system (thickening and devolatilization);
- Air stripper system;
- Perchlorate treatment system (fluidized bed reactor [FBR] and ion exchange [IX] vessels);
- Various pumps, meters, piping, and valves tying the treatment systems together; and
- Programmable Logic Controller (PLC) that communicates the status of the operable systems, including the extraction wells, to a central computer that can then notify the operators of shut-downs and similar issues remotely.

Contaminated water from the extraction wells and interception-collection trenches (ICTs) is pumped into the GWTP and stored in the equalization storage tank. The contaminated water is then pumped to the pretreatment system for precipitation of metals. The sludge from the pretreatment system is delivered to the sludge treatment system to be thickened and air stripped of volatile organic compounds (VOCs). The water from the pretreatment system is delivered to the air stripper system for removal of VOCs. Water treated by the air stripper is stored in the effluent storage tank for further treatment by the perchlorate system, which consists of an FBR and IX vessels.

To provide the integration necessary for proper water process management, a stand-alone central PLC, which interfaces with the LHAAP-17 equalization tank via a radio transmitter, and operator console is used to control the operating systems of the GWTP.

The pretreatment system and air stripper system are equipped with instrument junction boxes and motor starter control panels. The control panels contain a transformer, run indication lights, motor starters, hand or automatic switches, and relays to interface with the central PLC. The LHAAP-17 extraction system includes a radio transmitter that communicates directly with the GWTP PLC. The control panels have monitors and/or logic to monitor the operating parameters and to determine any occurrence of abnormal conditions.

Interface relays will indicate to the central PLC when there is a problem within the systems. The central PLC will provide the logic for the proper action required for that specific set of circumstances.

Groundwater extraction, treatment, discharge, and monitoring activities consist of:

- Continuous extraction of groundwater from multiple ICTs and extraction wells at LHAAP-18/24;
- Continuous extraction of groundwater from two extraction wells at LHAAP-17;
- Treatment of extracted groundwater for heavy metals, chlorinated compounds, and perchlorate using precipitation, air stripping, and biological methods, respectively;
- Evaluation of the hydraulic effectiveness of the extraction system by groundwater monitoring and groundwater elevation measurements;
- Monitoring and analysis of treated groundwater to ensure compliance with the discharge limits; and
- Discharge of treated water to Harrison Bayou or to a holding pond (Intermediate-Range Nuclear Forces Treaty [INF] Pond), or the treated water may be released as irrigation water on LHAAP-18/24.

The location of the extraction wells and ICTs at LHAAP-18/24 is shown on **Figure A-1** in **Appendix A**. The process flow diagram of the GWTP is shown on **Figure A-2** in **Appendix A**. **Figure ES-1** shows the monthly total volume of groundwater that was extracted from the ICTs and extraction wells at LHAAP-18/24 between March 2018 and June 2024, at LHAAP-16 between March 2018 and September 2019, and at LHAAP-17 between August 2022 and June 2024. Historical details regarding the operation of the GWTP, including downtime and resolutions are discussed in Section 1.1.1 of this Quarterly Evaluation Report.

During the 3rd Quarter of 2022 (July – September), the adjacent site (LHAAP-17) groundwater extraction system was brought online and integrated into the GWTP. The LHAAP-17 groundwater extraction system was plumbed into the existing underground piping infrastructure that runs between LHAAP-16 and the GWTP. The LHAAP-17 extraction system includes a radio transmitter that communicates directly with the GWTP PLC. The LHAAP-17 extraction system was started up on 5 August 2022. Through the end of June 2024, 1,012,366 gallons of groundwater have been pumped from LHAAP-17 to the GWTP.

As shown on **Figure ES-1**, the total extracted groundwater volume from LHAAP-18/24 during the 2nd Quarter of 2024 was 629,702 gallons, with an additional 86,976 gallons extracted from LHAAP-17. The extracted groundwater volume from LHAAP-18/24 was recorded monthly as the sum of the difference between the flow meter totalizer reading at each ICT between the beginning and end of each month.

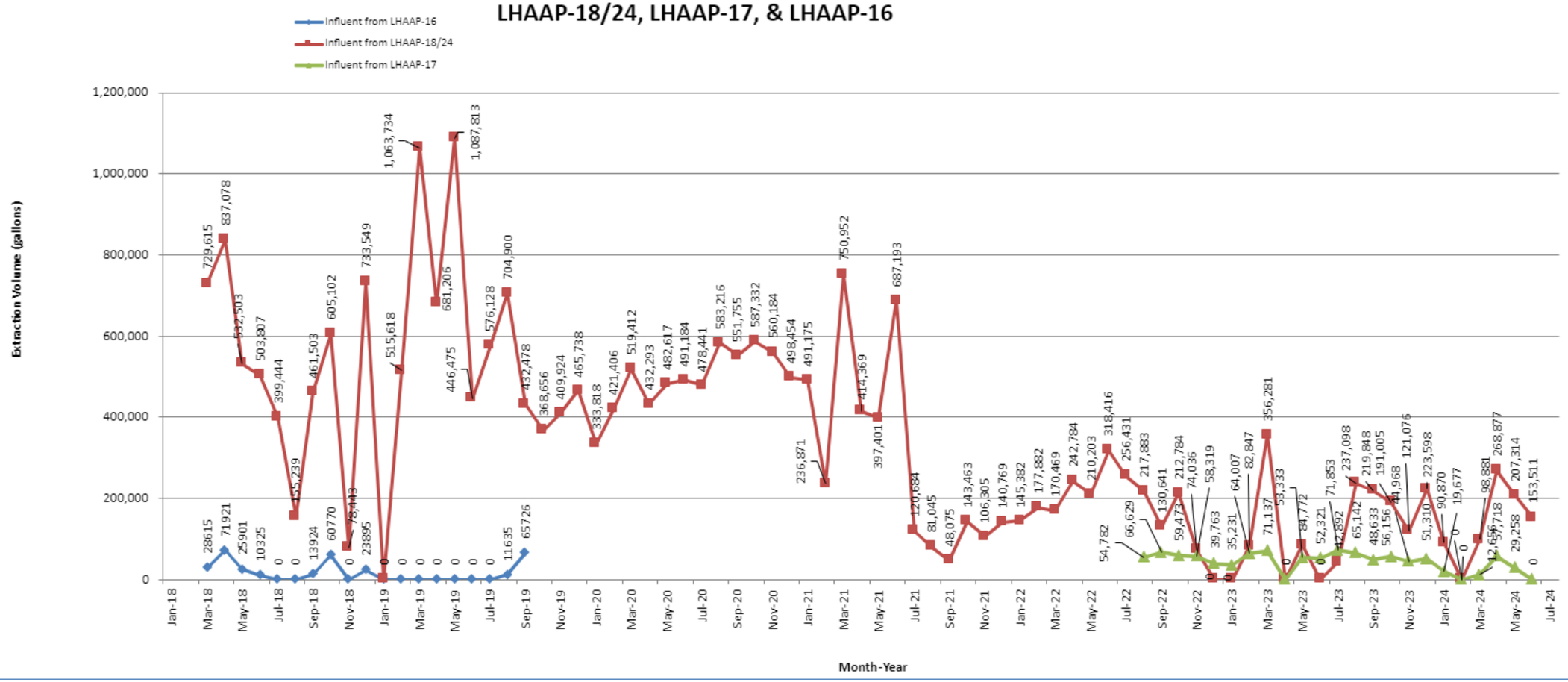
No water was discharged from the GWTP to the INF pond. An estimated 401,551 gallons of treated groundwater was released from the GWTP to Harrison Bayou during the 2nd Quarter of 2024. **Table ES-1** presents the INF Pond staff gauge readings by date, which is used to determine the freeboard available in the pond.

During the 2nd Quarter of 2024, monthly GWTP influent samples were collected for perchlorate analysis on 10 April 2024 and 8 May 2024. The perchlorate levels were measured at 10,400 micrograms per liter (µg/L) on 10 April 2024 and 24,100 µg/L on 8 May 2024. A quarterly influent sample was collected on 21 May 2024 during the 2nd Quarter and perchlorate was detected at 21,000 µg/L. Grab perchlorate samples from the GWTP effluent were collected weekly prior to and after the first IX vessel to confirm perchlorate treatment prior to discharge. All samples confirmed that GWTP discharges were below the Harrison Bayou Maximum Allowable Daily Discharge Perchlorate Concentration (589 µg/L).

The treated water quantities each month since March 2018 and discharged into the Harrison Bayou are shown on **Figure ES-2**.

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Figure ES-1. Groundwater Recovery from January 2018 through June 2024
LHAAP-18/24, LHAAP-17, & LHAAP-16



Note: Starting in September 2019, no groundwater was extracted subsequent to the final remedy of injections being implemented at LHAAP-16.

Figure ES-2. Treated Groundwater Discharged Monthly from March 2018 through June 2024

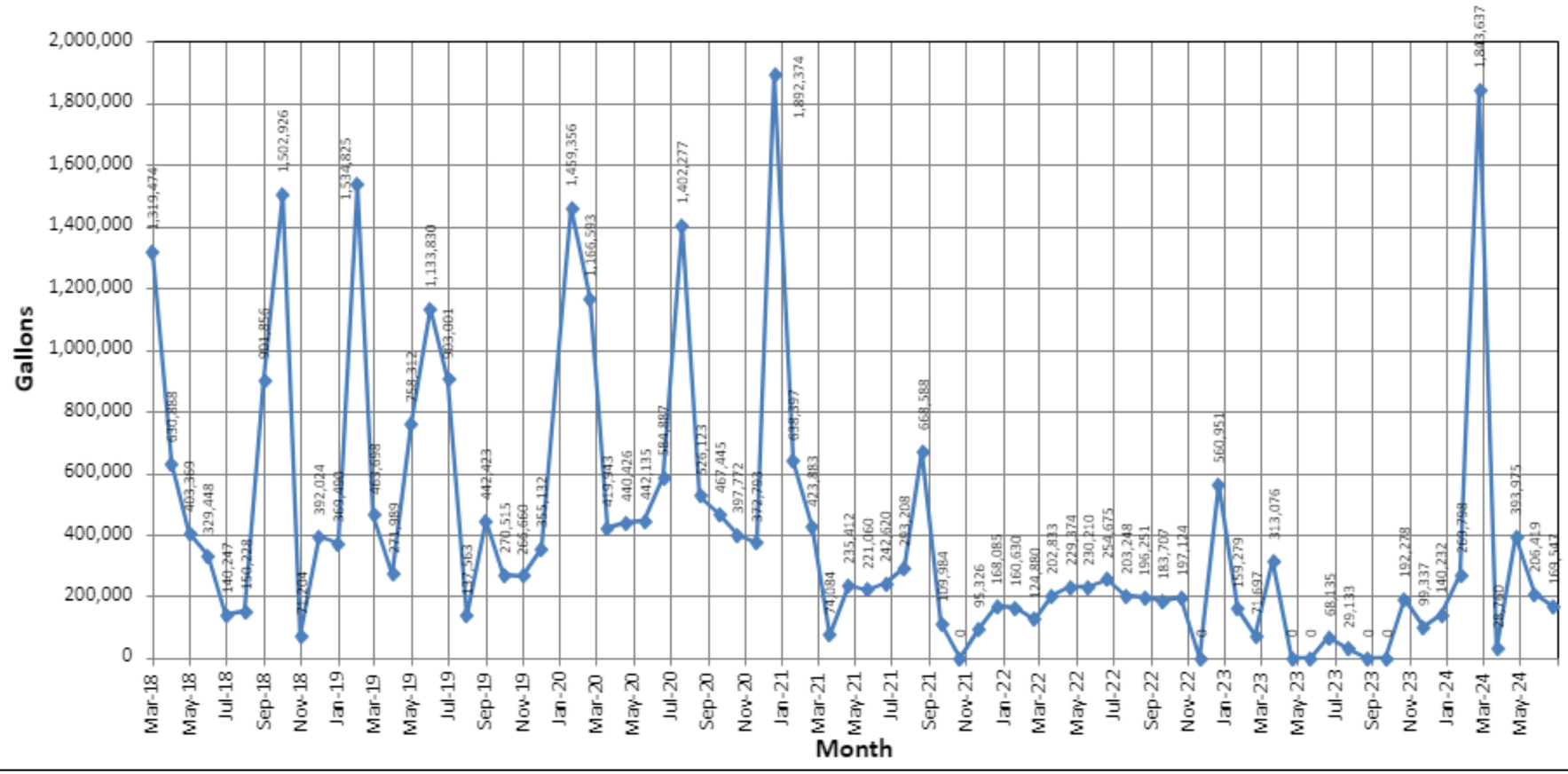


Table ES-1. Discharge Information to Harrison Bayou during 2nd Quarter 2024

DATE	Harrison Bayou Flow (gpm)	Maximum Rate Allowed (gpm)	Released From GWTP To Harrison Bayou (gallons)	Released From INF Pond to Harrison Bayou (gallons)	Released From GWTP to INF Pond (gallons)	Combined Total Released to Harrison Bayou (gallons)	INF Pond Staff Reading (feet) (6.20 = 3 feet Freeboard)
04/01/2024	NA	NA	0	0	0	0	0.00
04/02/2024	834	184	9,389	0	0	9,389	0.00
04/03/2024	736	162	9,486	0	0	9,486	0.00
04/04/2024	516	113	6,460	0	0	6,460	0.00
04/05/2024	442	97	0	0	0	0	0.00
04/06/2024	419	91	0	0	0	0	0.00
04/07/2024	376	82	0	0	0	0	0.00
04/08/2024	305	67	38,393	0	0	38,393	0.00
04/09/2024	Flood Stage	Maximum	4,878	0	0	4,878	0.00
04/10/2024	Flood Stage	Maximum	5,959	0	0	5,959	0.00
04/11/2024	Flood Stage	Maximum	10,220	0	0	10,220	0.00
04/12/2024	Flood Stage	Maximum	0	0	0	0	0.00
04/13/2024	Flood Stage	Maximum	0	0	0	0	0.00
04/14/2024	21,208	4,676	0	0	0	0	0.00
04/15/2024	18,203	4,015	38,651	0	0	38,651	0.00
04/16/2024	15,185	3,349	0	0	0	0	0.00
04/17/2024	11,986	2,593	6,775	0	0	6,775	0.00
04/18/2024	9,810	2,122	6,106	0	0	6,106	0.00
04/19/2024	8,975	1,938	0	0	0	0	0.00
04/20/2024	7,563	1,633	0	0	0	0	0.00
04/21/2024	Flood Stage	Maximum	0	0	0	0	0.00
04/22/2024	Flood Stage	Maximum	43,639	0	0	43,639	0.00
04/23/2024	24,818	5,369	0	0	0	0	0.00
04/24/2024	20,221	4,374	0	0	0	0	0.00
04/25/2024	16,658	3,603	10,123	0	0	10,123	0.00
04/26/2024	13,298	2,872	0	0	0	0	0.00

DATE	Harrison Bayou Flow (gpm)	Maximum Rate Allowed (gpm)	Released From GWTP To Harrison Bayou (gallons)	Released From INF Pond to Harrison Bayou (gallons)	Released From GWTP to INF Pond (gallons)	Combined Total Released to Harrison Bayou (gallons)	INF Pond Staff Reading (feet) (6.20 = 3 feet Freeboard)
04/27/2024	10,035	2,167	0	0	0	0	0.00
04/28/2024	8,578	1,852	0	0	0	0	0.00
04/29/2024	8,830	1,910	26,761	0	0	26,761	0.00
04/30/2024	7,931	1,715	2,829	0	0	2,829	0.00
05/01/2024	5,702	1,233	4,045	0	0	4,045	0.00
05/02/2024	5,373	1,162	2,090	0	0	2,090	0.00
05/03/2024	7,298	1,569	0	0	0	0	0.00
05/04/2024	6,657	1,431	0	0	0	0	0.00
05/05/2024	6,209	1,334	0	0	0	0	0.00
05/06/2024	5,406	1,169	17,004	0	0	17,004	0.00
05/07/2024	4,748	1,027	0	0	0	0	0.00
05/08/2024	3,706	801	3,104	0	0	3,104	0.00
05/09/2024	3,303	714	4,686	0	0	4,686	0.00
05/10/2024	3,110	668	0	0	0	0	0.00
05/11/2024	2,856	614	0	0	0	0	0.00
05/12/2024	2,377	511	0	0	0	0	0.00
05/13/2024	25,703	5,560	18,860	0	0	18,860	0.00
05/14/2024	20,914	4,524	0	0	0	0	0.00
05/15/2024	18,219	3,941	6,195	0	0	6,195	0.00
05/16/2024	15,539	3,361	0	0	0	0	0.00
05/17/2024	11,289	2,427	0	0	0	0	0.00
05/18/2024	9,856	2,119	0	0	0	0	0.00
05/19/2024	7,508	1,614	0	0	0	0	0.00
05/20/2024	5,704	1,234	23,621	0	0	23,621	0.00
05/21/2024	4,838	1,046	589	0	0	589	0.00
05/22/2024	4,025	870	9,977	0	0	9,977	0.00
05/23/2024	3,284	710	0	0	0	0	0.00
05/24/2024	NA	NA	0	0	0	0	0.00
05/25/2024	NA	NA	0	0	0	0	0.00
05/26/2024	NA	NA	0	0	0	0	0.00
05/27/2024	NA	NA	0	0	0	0	0.00

DATE	Harrison Bayou Flow (gpm)	Maximum Rate Allowed (gpm)	Released From GWTP To Harrison Bayou (gallons)	Released From INF Pond to Harrison Bayou (gallons)	Released From GWTP to INF Pond (gallons)	Combined Total Released to Harrison Bayou (gallons)	INF Pond Staff Reading (feet) (6.20 = 3 feet Freeboard)
05/28/2024	NA	NA	0	0	0	0	0.00
05/29/2024	NA	NA	0	0	0	0	0.00
05/30/2024	NA	NA	0	0	0	0	0.00
05/31/2024	NA	NA	0	0	0	0	0.00
06/01/2024	NA	NA	0	0	0	0	0.00
06/02/2024	NA	NA	0	0	0	0	0.00
06/03/2024	NA	NA	0	0	0	0	0.00
06/04/2024	NA	NA	0	0	0	0	0.00
06/05/2024	NA	NA	0	0	0	0	0.00
06/06/2024	NA	NA	0	0	0	0	0.00
06/07/2024	NA	NA	0	0	0	0	0.00
06/08/2024	NA	NA	0	0	0	0	0.00
06/09/2024	NA	NA	0	0	0	0	0.00
06/10/2024	NA	NA	0	0	0	0	0.00
06/11/2024	Flood Stage	Maximum	8,446	0	0	8,446	0.00
06/12/2024	Flood Stage	Maximum	3,036	0	0	3,036	0.00
06/13/2024	16,322	3,531	9,479	0	0	9,479	0.00
06/14/2024	13,968	3,017	0	0	0	0	0.00
06/15/2024	11,258	2,431	0	0	0	0	0.00
06/16/2024	9,523	2,056	0	0	0	0	0.00
06/17/2024	7,319	1,583	22,256	0	0	22,256	0.00
06/18/2024	NA	NA	0	0	0	0	0.00
06/19/2024	5,171	1,118	2,044	0	0	2,044	0.00
06/20/2024	3,763	814	9,279	0	0	9,279	0.00
06/21/2024	3,128	675	0	0	0	0	0.00
06/22/2024	2,597	560	0	0	0	0	0.00
06/23/2024	1,955	422	0	0	0	0	0.00
06/24/2024	1,590	344	10,073	0	0	10,073	0.00
06/25/2024	1,346	291	1,948	0	0	1,948	0.00
06/26/2024	1,186	256	4,015	0	0	4,015	0.00

DATE	Harrison Bayou Flow (gpm)	Maximum Rate Allowed (gpm)	Released From GWTP To Harrison Bayou (gallons)	Released From INF Pond to Harrison Bayou (gallons)	Released From GWTP to INF Pond (gallons)	Combined Total Released to Harrison Bayou (gallons)	INF Pond Staff Reading (feet) (6.20 = 3 feet Freeboard)
06/27/2024	NA	NA	0	0	0	0	0.00
06/28/2024	NA	NA	0	0	0	0	0.00
06/29/2024	1,536	331	0	0	0	0	0.00
06/30/2024	1,298	280	21,135	0	0	21,135	0.00
TOTAL	-	**-**	401,551	0	0	401,551	

Notes: The maximum discharge rate from the INF Pond is 170 gallons per minute (gpm) and the maximum discharge rate from the GWTP is 30 gpm.
NA = Not applicable
Treated groundwater volume released over the weekend is included in the total for the next working day. These dates are marked with an asterisk (*).

1 EVALUATION OF GROUNDWATER TREATMENT PLANT

The Groundwater Treatment Plant (GWTP) was constructed as part of the Interim Remedial Action at Burning Ground Number (No.) 3, also referred to as Longhorn Army Ammunition Plant (LHAAP)-18/24, to treat groundwater extracted from interception-collection trenches (ICTs) and extraction wells. **Figure A-1** located in **Appendix A** presents the layout of the ICTs and extraction wells at LHAAP-18/24. The groundwater contamination at LHAAP-18/24 likely resulted from infiltration from an Unlined Evaporation Pond that was used to store manufacturing wastewater and from burning trenches and other industrial processes used to flash pyrotechnic, propellant, and explosive waste streams. The groundwater at LHAAP-18/24 is contaminated mainly with chlorinated ethenes and perchlorate, and with lesser concentrations of 1,4-dioxane.

During the 3rd Quarter of 2022 (July – September), the adjacent site (LHAAP-17) groundwater extraction system was brought online and integrated into the GWTP. The LHAAP-17 groundwater extraction system was plumbed into the existing underground piping infrastructure that runs between LHAAP-16 and the GWTP. The LHAAP-17 extraction system was started up on 5 August 2022. The groundwater at LHAAP-17 is primarily impacted with perchlorate.

The GWTP no longer receives influent from LHAAP-16 due to implementation of the final remedy, which commenced in September 2019. The GWTP had previously received groundwater from eight extraction wells installed at LHAAP-16 as part of a historical treatability study. The extraction wells were installed in 1996 and 1997 at LHAAP-16.

A complete history of major historical operation of the GWTP can be found in the 1st Quarter 2024 report. Throughout the 2nd Quarter of 2024, several power outages occurred. On 20 April 2024, a power glitch occurred at the GWTP, though this glitch was quickly addressed so that air compressors were restarted and the fluidized bed reactor (FBR) could return to its normal operating state. On 27 April 2024, another power outage occurred due to high winds causing wires to touch. Repair of the blown fuse from the overhead power line occurred on 2 May 2024. On 24 May 2024, Ark-La-Tex Electric (Ark-La-Tex) returned to the site to repair a broken bower line and replace more blown fuses. A power glitch at the GWTP occurred on 25 May 2024, though this was able to be quickly addressed so that air compressors were restarted and the FBR returned to normal operating state. On 26 May 2024, the air compressor shut down due to an overload and a leak. This repair was addressed on 3 June 2024.

1.1 Treatment Configuration

The process flow diagram for the GWTP is presented in **Appendix A, Figure A-2**. Groundwater extraction, treatment, discharge, and monitoring activities consist of the following:

- Continuous extraction of groundwater from multiple ICTs and extraction wells located at LHAAP-18/24;
- Continuous extraction of groundwater from two extraction wells located at LHAAP-17;
- Treatment of extracted groundwater for metals, chlorinated compounds, and perchlorate using precipitation, air stripping, and biological methods, respectively;

- Evaluation of the hydraulic effectiveness of the extraction system by groundwater monitoring and groundwater elevation measurements;
- Monitoring and analysis of treated groundwater to ensure compliance with the discharge limits; and
- Discharge of treated water to Harrison Bayou or to a holding pond (Intermediate-Range Nuclear Forces Treaty [INF]] Pond) or the treated water may be released as irrigation water on LHAAP-18/24.

Contaminated water from the extraction wells and ICTs is pumped into the GWTP and stored in the equalization storage tank. The extracted groundwater is then pumped to the pretreatment system for precipitation of metals. The sludge from the pretreatment system is delivered to the sludge treatment system to be thickened, and air stripped of volatile organic compounds (VOCs). The water from the pretreatment system is delivered to the air stripper system for removal of VOCs. Water treated by the air stripper is stored in the effluent storage tank for further treatment by the perchlorate system, which consists of an FBR and ion exchange (IX) vessels. The process flow diagram for the GWTP is presented in **Appendix A, Figure A-2**.

To provide the integration necessary for proper water process management, a stand-alone central Programmable Logic Controller (PLC), which interfaces with the LHAAP-17 equalization tank via a radio transmitter, and an operator console is used to control the operating systems of the GWTP.

The pretreatment and air stripper systems are equipped with instrument junction boxes and motor starter control panels. The control panels contain a transformer, run indication lights, motor starters, hand or automatic switches, and relays to interface with the central PLC. The LHAAP-17 extraction system includes a radio transmitter that communicates directly with the GWTP PLC. The control panels have monitors and/or logic to monitor the operating parameters and to determine occurrence of abnormal conditions. Interface relays will indicate to the central PLC that there is a problem within the systems. The central PLC provides the logic for the proper action required for that specific set of circumstances.

1.1.1 2nd Quarter 2024 GWTP Operation

During the 2nd Quarter of 2024 (April-June), the ICT repairs included replacing pumps at ICT 13F and 13C, replacing flow meters at ICTs 13A, 13B, 14A, and 7, and replacing a motor at ICT 13F. Additionally, motor starter contactors were replaced for ICTs 12A and 12D. A leaking 1 inch (”) union was replaced at ICT 14E, and probe wires were replaced at ICT 13B. Finally, the auto/manual hand switch was replaced at ICT 13C. Previous ICT repairs are summarized in **Table A-1** in **Appendix A.**

In the 2nd Quarter of 2024, the GWTP processed approximately 769,941 gallons of water including influent water from LHAAP-18/24, influent water from LHAAP-17, and rainwater from the secondary containment basin.

During the 2nd Quarter of 2024, the GWTP operated for a total of 187.5 hours. Flow rates for the treatment processes for metals and VOCs ranged between 56 and 160 gpm. The treatment configuration of the plant at these rates (with minor variations) is shown in the following tables.

GWTP Metals Precipitation Operating Parameters

Pretreatment Settings	Tank 200-A $Mg(OH)_2$ Mixing	Tank 200-B NaOH Mixing	Tank 200-C Polymer Mixing	Tank 300 feed line to Air Stripper
pH Adjustment	9.0	10.5	NA	5.0 to meet ≤ 8.0 release from stripper
Feed Pump Settings	Speed 100% Stroke 100% 10 gph $Mg(OH)_2$	Speed 100% Stroke 100% 9.0 gph NaOH	Speed 90% Stroke 100% 40 gph water	Speed 80% Stroke 80% 10 gph HCl
Notes: % - percent, ≤ - less than or equal to, gph - gallons per hour, NaOH - sodium hydroxide, $Mg(OH)_2$ - magnesium hydroxide, HCl – hydrochloric acid, NA - not applicable				

GWTP Air Compressors Operating Parameters

Air Compressors	K-700A	K-700B	K-701
Air Pressure Settings	88 psi	88 psi	105 psi
Note: psi – pounds per square inch			

GWTP Stripper Operating Parameters

pH Setting	7.4
Inlet Pressure Gauge	Not operational
Stripper Pressure Gauge	Not operational
Air Flow Rate	Not operational

GWTP Fluidized Bed Reactor Operating Parameters

Carbon Bed Height	12 ft and 8 to 11”
Recycle Flow Rate	200 gpm
pH	7.1 to 7.4
Recycle ORP	<-430 mV
Note: mV – millivolts, <- less than, ft – feet or foot, “– inch, ORP – oxidation-reduction potential, gpm – gallons per minute, pH – potential of Hydrogen	

1.2 Work Performed at the GWTP

Groundwater extraction, treatment, discharge, and monitoring activities consist of:

- Continuous extraction of groundwater from multiple ICTs and extraction wells at LHAAP-18/24 and LHAAP-17;
- Treatment of extracted groundwater for metals, chlorinated compounds, and perchlorate using precipitation, air stripping, and biological methods, respectively;
- Evaluation of the hydraulic effectiveness of the extraction system by groundwater monitoring;

- Monitoring and analysis of treated groundwater to ensure compliance with the discharge limits; and
- Discharge of treated water to Harrison Bayou or to a holding pond (INF Pond).

Maintenance performed at the GWTP during the 2nd Quarter of 2024 is described in the following subsections.

1.2.1 Major Maintenance

The following major maintenance was completed at the GWTP during this quarterly reporting period:

- On 11 April 2024, Bloc Design Build, LLC (BLOC) was on-site to troubleshoot electrical problems with some of the ICT wells;
- On 15 April 2024, BLOC was on-site to replace motor starter contactors in ICTs 12A and 12D and also replace hand switch in ICT 13C;
- On 29 April 2024, Ark-La-Tex was on-site to replace blown fuses in overhead power line;
- On 2 May 2024, Ark-La-Tex was on-site to replace a blown fuse in the overhead power line;
- On 24 May 2024, Ark-La-Tex was on-site to repair a broken power line and replace the blown fuses in the power line; and
- On 3 June 2024, Industrial Service & Supply was on-site to repair an air compressor at the GWTP.

1.2.2 Routine Maintenance

The following routine maintenance was completed at the GWTP during the 2nd Quarter of 2024:

- Performed housekeeping in the GWTP office, in the Army trailer, in the GWTP shop, and around GWTP and containment area;
- Removed and cleaned basket from 4” strainer on discharge of FBR;
- Performed weekly inspections at Site 17;
- Air sparged & backwashed sand filter;
- Mowed grass around GWTP, GWTP office, Army trailer, deconstruction pad and storage buildings;
- Cleared overgrown vegetation with a bush-hog around ICT wells to allow for maintenance;
- Collected quarterly surface water samples;
- Replaced filter socks in filters before IX vessels;
- Added oil to air compressor at Site 17;
- Repaired access road leading to well 18CPTMW16; and

- Collected annual ICT wells samples.

1.2.2.1 Lubrication

No lubrication maintenance was conducted during the 2nd Quarter of 2024.

1.2.2.2 Air Compressors

On 26 May 2024, the air compressor shut down due to overload. Oil was added to the air compressor, but an oil leak was discovered. The compressor was shut down until 3 June 2024, when an Industrial Services and Supply service technician was able to repair the compressor.

1.2.2.3 Waste Disposal

There was no waste disposal during the 2nd Quarter of 2024.

1.2.2.4 Sand Filter

After the GWTP was down in April 2023, the sand filter partially solidified as sediment in the groundwater settled out. The solidified sand decreased flow through the GWTP from 200 gpm to 50 gpm. Therefore, the sand filter was backwashed and air sparged to loosen built- up sediment, increasing flow through the GWTP to 110 gpm by the end of June 2023. The sand filter continued to be air sparged and backwashed throughout the 2nd Quarter of 2024. However, the current flow rate does not impact GWTP system operation because other limiting factors determine the rate at which groundwater is able to be processed by the plant. Such factors include the FBR, which is limited to pumping groundwater at 10 gpm, in addition to discharge limits to Harrison Bayou.

1.2.2.5 Well Field at LHAAP-18/24

The following activities were conducted at the well field at LHAAP-18/24 during the reporting period:

- Measured monthly water levels;
- Replaced pump & motor in ICT 13F;
- Replaced flow meter on ICTs 13A & 13B;
- Replaced pump in ICT 13C;
- Replaced flow meter on ICT 7;
- Repaired flow meter on ICT 14A;
- Replaced leaking 1” union on ICT 14E;
- Replaced level probe wires on ICT 13B;
- Replaced low level probe wire on ICT 7;
- Cleaned and replaced level probes in ICT 12E;

- Removed accumulation of vegetation and weeds with bush-hog and weed eater around wells at Site 18/24 in preparation of June 2024 semiannual sampling event; and
- Collected semiannual samples at wells at Site 18/24

1.2.3 Non-Routine Maintenance

There was no non-routine maintenance conducted during the 2nd Quarter of 2024.

1.3 Fluidized Bed Reactor Operations

The operating parameters for the GWTP FBR are presented in **Table 1**. Measurements indicating pH or ORP values outside of the optimal range are highlighted gray.

Table 1. Enhanced Fluidized Bed Reactor Operating Parameters – 2nd Quarter 2024

Date	pH (7.1-7.4 s.u.)	ORP (<-430mV)	Temperature (°F)
4/1/2024	7.4	-555	68
4/2/2024	7.4	-555	70
4/3/2024	7.4	-550	69
4/4/2024	7.4	-548	67
4/5/2024	7.4	-548	67
4/6/2024	7.4	-561	69
4/7/2024	7.4	-558	70
4/8/2024	7.4	-550	71
4/9/2024	7.4	-544	68
4/10/2024	7.3	-484	69
4/11/2024	7.4	-530	67
4/12/2024	7.4	-547	70
4/13/2024	7.4	-543	71
4/14/2024	7.4	-543	71
4/15/2024	7.4	-537	71
4/16/2024	7.3	-535	73
4/17/2024	7.3	-533	74
4/18/2024	7.3	-530	74
4/19/2024	7.4	-545	74
4/20/2024	7.4	-530	70
4/21/2024	7.4	-534	71
4/22/2024	7.4	-500	68
4/23/2024	7.3	-514	68
4/24/2024	7.2	-523	69
4/25/2024	7.2	-516	69
4/26/2024	7.3	-529	73
4/27/2024	No Power	No Power	No Power

Table 1. Enhanced Fluidized Bed Reactor Operating Parameters – 2nd Quarter 2024

Date	pH (7.1-7.4 s.u.)	ORP (<-430mV)	Temperature (°F)
4/28/2024	No Power	No Power	No Power
4/29/2024	7.3	-495	73
4/30/2024	7.4	-521	73
5/1/2024	7.4	-513	74
5/2/2024	7.4	-523	74
5/3/2024	7.4	-536	76
5/4/2024	7.4	-528	77
5/5/2024	7.4	-538	77
5/6/2024	7.4	-529	77
5/7/2024	7.4	-514	77
5/8/2024	7.4	-519	79
5/9/2024	7.4	-513	77
5/10/2024	7.4	-514	80
5/11/2024	7.4	-532	80
5/12/2024	7.4	-515	78
5/13/2024	7.4	-512	76
5/14/2024	7.4	-511	76
5/15/2024	7.4	-540	76
5/16/2024	7.4	-537	76
5/17/2024	7.4	-525	77
5/18/2024	7.4	-513	79
5/19/2024	7.4	-525	80
5/20/2024	7.4	-517	80
5/21/2024	7.4	-533	81
5/22/2024	7.4	-525	82
5/23/2024	7.4	-517	80
5/24/2024	7.4	-521	81
5/25/2024	7.4	-530	83
5/26/2024	7.4	-528	85
5/27/2024	7.4	-561	91
5/28/2024	7.4	-589	91
5/29/2024	7.4	-601	91
5/30/2024	7.4	-603	91
5/31/2024	7.4	-602	90
6/1/2024	7.4	-608	92
6/2/2024	7.4	-608	93
6/3/2024	7.4	-603	93

Table 1. Enhanced Fluidized Bed Reactor Operating Parameters – 2nd Quarter 2024

Date	pH (7.1-7.4 s.u.)	ORP (<-430mV)	Temperature (°F)
6/4/2024	No Power	No Power	No Power
6/5/2024	No Power	No Power	No Power
6/6/2024	No Power	No Power	No Power
6/7/2024	7.4	-554	83
6/8/2024	7.4	-562	85
6/9/2024	7.4	-563	87
6/10/2024	7.4	-558	85
6/11/2024	7.4	-548	84
6/12/2024	7.4	-555	85
6/13/2024	7.4	-546	82
6/14/2024	7.4	-554	83
6/15/2024	7.3	-553	87
6/16/2024	7.4	-555	88
6/17/2024	7.4	-544	86
6/18/2024	7.4	-546	86
6/19/2024	7.3	-551	87
6/20/2024	7.4	-536	85
6/21/2024	7.4	-554	85
6/22/2024	7.4	-554	89
6/23/2024	7.4	-552	89
6/24/2024	7.4	-512	88
6/25/2024	7.4	-546	89
6/26/2024	7.4	-532	87
6/27/2024	7.4	-562	88
6/28/2024	7.4	-556	90
6/29/2024	7.3	-553	91
6/30/2024	7.3	-550	92
Notes: pH - potential of Hydrogen, S.U. - standard unit, ORP – oxidation-reduction potential, < - less than			

1.4 Process Chemical Usage at GWTP

Approximate chemical consumption and the quantity delivered during the 2nd Quarter of 2024 are listed in **Table 2**.

Table 2. Chemical Usage and Delivery Table

Chemical	Usage 2nd Quarter 2024	Quantity Delivered 2nd Quarter 2024
Hydrochloric acid	560 gallons	0

Chemical	Usage 2nd Quarter 2024	Quantity Delivered 2nd Quarter 2024
Sodium hydroxide (35%)	800 gallons	0
Acetic acid (50%)	55 gallons	0
Phosphoric acid (75%)	34.7 liters	0
Magnesium hydroxide	240 gallons	0
Urea	256.1 lbs	0
Polymer (magnafloc 110-liters)	9.6 liters	0

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2 EVALUATION OF LHAAP-18/24 ICT EFFECTIVENESS

The ICT system at Burning Ground No. 3 is composed of 14 sections ranging in length from 100 ft to 1,300 ft. A total of approximately 5,000 linear ft of trench was installed within and around three sides of Burning Ground No. 3. The trench sections extend approximately 22 ft to 45 ft below ground surface (bgs). Most, but not all, of the trenches are as deep as the confining clay layer of the shallow groundwater zone. High density polyethylene (HDPE) liners were installed outside of ICTs 12A-12E and 13A-13G, located on the southwestern and northwestern boundaries of LHAAP-18/24, respectively. The locations of the liners are shown on **Figure A-1** and depths of the ICTs are presented on **Table A-1** in **Appendix A**.

2.1 Groundwater Elevation

Water levels from 99 monitoring wells and 11 piezometers are measured monthly to generate potentiometric surface maps that assist in monitoring the effectiveness of the groundwater extraction system on plume containment. Piezometer 12 (BGPZ-12) was damaged, plugged, and abandoned in May 2013, and monitoring wells 18WW01 and 18WW16 were plugged and abandoned in August 2020. The potentiometric surface contours are generated using the water levels from the shallow zone and Wilcox Formation wells. The water level data are presented in **Table 3**. No reinjection of treated groundwater or reapplication of groundwater to LHAAP-18/24 grounds via the existing irrigation system occurred during the 2nd Quarter of 2024. Groundwater elevations measured during the 2nd Quarter of 2024 are discussed in Section 2.2. Potentiometric surface maps based on the groundwater elevations measured during the 2nd Quarter of 2024 are contained in **Appendix B**.

2.2 Performance of Plume Capture

The intent of the ICTs is to control horizontal groundwater hydraulic gradients, prevent off-site migration of contaminated groundwater, extract the most highly contaminated groundwater, and reduce the mass of contaminants in groundwater. Liners were installed in the ICTs on the northern (ICT 13) and western (ICT 12) site boundaries to limit migration of contaminated water from the site towards Harrison Bayou. At the same time, the liners reduce or prevent removal of contaminated groundwater that is outside the ICT containment area, between the site and Harrison Bayou. The ICTs are installed within the shallow subsurface at the site and capture primarily shallow zone groundwater (e.g., <40 ft bgs). **Table A-1** in **Appendix A** presents a summary of extraction equipment replacement since 2011, as dictated by poor extraction performance (malfunctioning pumps, poor pump positioning with respect to groundwater elevations, non-operational level probes, scale build up, etc.). Further discussion of extraction performance of various ICTs and extraction wells is presented in Section 2.3.

Potentiometric surface maps of the shallow zone groundwater in the vicinity of LHAAP-18/24, based on groundwater elevations measured on 30 April 2024, 29 May 2024, and 25 June 2024, are shown on **Figures B-1**, **B-2 and B-3 in Appendix B**, respectively. The potentiometric surface maps of the shallow zone were contoured using the Kriging geostatistical interpolation method

included in the Golden Software Surfer® data analysis software. Wells 101 and 18CPTMW26, as well as piezometer BGPZ-1, were not used for contouring as their values were considered anomalous. Likewise, wells 18CPTM22R and MW-20 were not used for contouring as the well screens fall in a perched sand channel.

The HDPE liners in the ICTs, where present, continue to retard groundwater flow. The potentiometric surface maps for April, May, and June 2024 continue to reflect high groundwater elevations in the shallow zone in the northern/northwestern portion of the site, with groundwater flowing radially outward from an area within the ICT containment area with the highest groundwater elevations. Monitoring wells MW-1, AWD-3, 18CPTMW04, which were all used for developing contours as part of the Kriging geostatistical interpolation method, had the highest groundwater elevations in April 2024 of 173.31 ft above mean sea level (amsl), 173.18 ft amsl and 173.12 ft amsl, respectively. The same three wells also had the highest groundwater elevations in May 2024 with MW-1 at 173.15 ft amsl, AWD-3 at 173.05 ft amsl, and 18CPTMW04 at 172.95 ft amsl. Significant rainfall during the end of May 2024 and beginning of June 2024 caused the shallow groundwater table to elevate within the north-northwest part of the site during the June 2024 well-gauging event. Monitoring wells 18CPTMW04, MW-1, and AWD-1 had the highest groundwater elevations in June 2024 of 178.45 ft amsl, 177.30 ft amsl and 177.12 ft amsl, respectively.

Groundwater levels in Wilcox Formation wells (constructed greater than 40 ft bgs) were measured during the 2nd Quarter of 2024 groundwater gauging events. Wilcox Formation wells correspond to those wells previously identified as “intermediate” and “deep” wells. “Intermediate” wells are designated as upper Wilcox Formation wells and “deep” wells are designated as lower Wilcox Formation wells. The upper and lower Wilcox Formation are in hydraulic communication and so can be treated as a single hydrogeologic unit (Remedial Investigation Report, Jacobs Engineering Group, April 2011). Therefore, the groundwater elevations in upper and lower Wilcox wells were used to construct the potentiometric surface maps for the Wilcox Formation. **Figures B-4, B-5 and B-6 in Appendix B** show the locations of the Wilcox Formation monitoring wells and the potentiometric surface of the Wilcox Formation, based on static water levels measured during the April, May, and June 2024 gauging events, respectively. A groundwater high is present in the Wilcox Formation in April, May, and June 2024, whereby groundwater flows radially away, around monitoring well MW-14. Across the rest of the site, Wilcox Formation groundwater flows primarily in a north-northwest direction, towards Harrison Bayou although groundwater flows in other directions in the southern, southwestern, and southeastern areas outside of the IRP boundary. A downward vertical hydraulic gradient is also present between the overlying shallow zone and the Wilcox Formation.

The extracted groundwater volume was measured monthly as the sum of the difference between the flow meter totalizer reading at each ICT between the beginning and end of each month. During the 2nd Quarter of 2024, approximately 629,702 gallons of groundwater was extracted from the LHAAP-18/24 ICTs for treatment (**Table 5**). Additionally, LHAAP-17 contributed another 86,976 gallons to the GWTP during the 2nd Quarter of 2024 for a total of 716,678 gallons of extracted groundwater. Note that the sum of the ICT totalizers does not match up to the influent

totalizer (FIT-140) at the GWTP. As shown on **Figure 2-1**, the influent totalizer volume for the 2nd Quarter 2024 was 789,134 gallons.

During the 2nd Quarter of 2024, no treated groundwater was discharged to the INF pond from the GWTP. All treated water was released to Harrison Bayou during the 2nd Quarter of 2024. In total, 401,551 gallons of treated water was discharged. Throughout the 2nd Quarter of 2024, the treated groundwater was processed through the IX vessels to provide additional water treatment for perchlorate prior to discharge to the INF Pond. **Table 4** presents the daily discharge rates and volume for the 2nd Quarter of 2024.

2.3 Quantity of Water Extracted from LHAAP-18/24 and LHAAP-17

During the 2nd Quarter of 2024, the GWTP operated for 187.5 hours. Flow rates for the treatment processes for metals and VOCs average 74 gpm.

The average daily extraction rates from the extraction wells at LHAAP-17 were approximately 1,924 gallons per day (gpd) in April 2024, approximately 944 gpd in May 2024, and approximately 0 gpd in June 2024 (**Table 5**). The average daily extraction rates from the ICTs at LHAAP-18/24 were approximately 8,963 gpd in April 2024, 6,688 gpd in May 2024, and 5,117 gpd in June 2024 (**Table 5**). The volume of groundwater removed from LHAAP-17 and LHAAP-18/24 during the 2nd Quarter of 2024 measured approximately 789,134 gallons based on the influent totalizer (FIT-140). **Figure 2-1** shows the historical trends of extracted volumes based on the influent totalizer by quarter. The processed water measured on the equalization tank (TK-140) effluent totalizer (FIT-172) was recorded at 769,941 gallons indicating a difference of 19,193 gallons between influent and processed water.

As indicated by **Table 5**, 20 of 25 ICTs and wells produced water in the 2nd Quarter 2024. ICTs 1, 2, 3, 5, 10, 12A, and 13C did not produce water in the 2nd Quarter 2024. ICTs 1, 3, 5, and 10 were deactivated on 18 February 2008 as part of a pilot study for system optimization.

2.4 Sampling Activities at LHAAP-18/24

Groundwater sampling was completed at LHAAP-18/24 in accordance with the requirements documented in the Final Revised Installation Wide Work Plan (Bhate Environmental Associates, Inc. [Bhate], May 2018). During the 2nd Quarter 2024, 104 wells were sampled between 5 June and 20 June 2024. The analytical results are presented in **Table 6**. Laboratory data packages are provided in **Appendix C**. Analytes exceeding their respective Maximum Contaminant Levels (MCLs), Medium Specific Concentrations or Protective Concentration Levels (PCLs) are as follows: perchlorate; arsenic; barium; chromium; manganese; nickel; 1,1,2-trichloroethane; 1,1-dichloroethene (DCE); 1,2-dichloroethane (DCA); carbon tetrachloride; cis-1,2-DCE; cis-1,3-dichloropropene; hexachlorobutadiene; methylene chloride (MC); tetrachloroethene (PCE); trans-1,2-DCE; trichloroethene (TCE); vinyl chloride (VC); and 1,4-dioxane.

Groundwater chemicals of concern (COCs) maps showing the results of the June 2024 groundwater sampling event for perchlorate, TCE, and MC are presented by shallow aquifer zone and Wilcox Formation as **Figures D-1** through **D-6** in **Appendix D**.

2.4.1 LHAAP-18/24 Analytical Results (June 2024)

Perchlorate exceedances of the PCL (17 micrograms per liter [µg/L]) in the shallow zone groundwater ranged from 31.4 µg/L (duplicate result) in MW-102 to 119,000 µg/L in 1824DPTMW05 (**Table 6**). The perchlorate concentrations in the shallow zone greater than 10,000 µg /L were observed in 1824DPTMW05, 1824DPTMW02, MW-23, MW-5, and MW-7, with concentrations in these wells ranging between 14,300 µg/L in MW-7 to 119,000 µg/L in 1824DPTMW05 (**Figure D-1**).

Perchlorate exceedances of the PCL (17 µg/L) in the Wilcox Formation ranged from 29.1 µg/L in 18CPTMW12SW to 300,000 µg/L in MW-14 (**Table 6**). The perchlorate concentrations in the Wilcox Formation that are greater than 10,000 µg /L were observed in MW-14, 18CPTMW08SW, and 18CPMW08DW. During the June 2024 sampling event, the eastern plume was able to be fully delineated with non-detects and detections below the PCL surrounding the plume on all sides. In contrast, the western plume has not been fully delineated due to limited wells located on the western and southeastern side of the plume (**Figure D-2**).

The highest TCE detection in the shallow zone was 6,280 µg/L in MW-21 (**Figure D-3**). Detections of TCE in the shallow zone above 500 µg/L were generally confined to inside of the ICT boundary in December 2023 except for wells MW-8 and 18CPTMW23 located to the west and northwest of the ICT boundary. Monitoring well (18CPTMW23), just outside the northwest ICT boundary, had an elevated detection of TCE at 1,200 µg/L. However, there is one monitoring well (18WW24), downgradient of monitoring well 18CPTMW24, that had a low concentration detection of 0.65 J (data qualifier denoting an estimated concentration) µg/L.

TCE in the Wilcox Formation was generally present at low concentrations, except for monitoring well MW-14 (**Figure D-4**) at a concentration of 18,000 µg/L in June 2024. The June 2024 TCE detection at MW-14 represents an increase in TCE concentration from December 2023 (9,900 µg/L), June 2023 (15,000 µg/L), December 2022 (5,500 µg/L), August 2022 (8,100 µg/L), and December 2021 (6,200 µg/L). The TCE plume on the western side of the site could not be fully delineated due to the lack of deep wells on the western side of the site, though the plume was fully delineated within the ICT boundary. Other TCE exceedances of the PCL were detected outside the western plume, including detections at 18CPTMW08SW (30 µg/L) and 18CPTMW06 (5.2 µg/L).

The only exceedance of MC above the MCL (5 µg/L) in the shallow zone was detected in MW-1 during the June 2024 sampling event with a concentration of 8,500 µg/L (duplicate result). This differs from the detections from December 2023 sample event, in which the MC exceedances were centered around MW-2. However, MW-1 was not analyzed during the December 2023 sample event, and so comparison between the December 2023 and June 2024 results is limited. However, this concentration shows a substantial increase in the maximum concentration of the plume when compared to the December 2023 results at MW-2 of 180 µg/L. The June 2024 sample for MW-2 showed a non-detect for MC. This implies that the center of the plume may have shifted to the west. The extent of MC detected in the shallow zone is confined to within the ICT boundary as depicted on **Figure D-5**.

MC in the Wilcox Formation was detected in 18CPTMW01SW at 8,300 µg/L in June 2024, showing no change in concentration compared to the December 2023 detection. This was the only detected exceedance of MC within the Wilcox Formation. The concentrations of MC in the Wilcox Formation are shown on **Figure D-6**.

2.4.2 LHAAP-18/24 Trend Analysis

Time-series graphs for the shallow zone and Wilcox Formation wells are presented in **Appendix E.** Graphs for shallow zone wells 18WW08, AWD-3, C-08, MW-2, MW-7, MW-8, MW-16, MW-17, MW-20, MW-21, MW-22, MW-23, 109, 120, and 126 are included. Graphs for Wilcox Formation wells C-03 and MW-14 are also included in **Appendix E.**

2.4.2.1 Shallow Zone Trend Analysis

The following observations were made for the shallow zone groundwater, based on the June 2024 groundwater monitoring results:

- 18WW08 is located north-northwest of the site in the shallow zone. Perchlorate increased substantially from 1,520 µg/L in June 2021 to 20,000 µg/L in August 2022. Since August 2022, perchlorate has decreased to 7,450 µg/L in June 2023 and again in December 2023 to 3,850 µg/L. Perchlorate concentrations decreased substantially in June 2024 to a concentration of 9.52 µg/L. TCE was undetected during the June 2024 sample event, a decrease from its December 2023 detection of 4 µg/L, which is a decrease from the highest detection of TCE in the well of 14 µg/L in August 2022. The concentration of MC continues to be non-detect in 18WW08 in June 2024.
- 18DPTMW07 is located downgradient of well 18WW08 near the bayou. 18DPTMW07 was not sampled during the 2nd Quarter 2024 sampling event but is scheduled to be sampled during the 4th Quarter 2024 sampling event.
- AWD-3 is located inside the ICT containment area near the center of the site in the shallow zone. Perchlorate was detected at a concentration of 3.5 µg/L, a decrease from the December 2023 concentration of 11.6 µg/L. Historical detections in AWD-3 have fluctuated from 14,100 µg/L in September 2012 to 1.8 µg/L in June 2019. TCE concentrations increased in June 2024 with a concentration of 760 µg/L when compared with the December 2023 results. However, the concentration still is lower than the maximum TCE concentration detected at the well, which was measured at 3125 µg/L in September 2012. The concentration of MC continues to be non-detect at AWD-3.
- C-08 is located to the northeast of the ICT containment area in the shallow zone. Perchlorate remains significantly below the PCL of 17 µg /L and was undetected during the June 2024 sample event. TCE has an increasing trend that started with the June 2021 results of 0.87 µg/L with a current concentration of 11.2 µg/L in June 2024. MC remained below the detection limit in well C-08.
- MW-2 is located inside the ICT containment area in the shallow zone. Perchlorate has been detected below the PCL of 17 µg /L since June 2018. MC was not detected during the June

2024 sample event. The TCE concentration detected in June 2024 was 4,800 µg/L which is an increase from the 3,800 µg/L detection in December 2023, but like the 5,400 µg/L detection in June 2023. Overall, TCE concentrations are relatively stable since June 2017.

- Monitoring wells MW-7, MW-8, and MW-17 are located to the southwest of the ICT containment area in the shallow zone.
  - Perchlorate increased from the December 2023 detection at MW-7 from 9,700 µg/L to 14,300 µg/L in June 2024, though this detection is stable when compared to those reported from December 2020 to January 2023. TCE detected at MW-7 decreased from the December 2023 detection of 1,300 µg/L to 970 µg/L. The trend in MW-7 is overall decreasing for both perchlorate and TCE since December 2019. MC was not detected at MW-7 in June 2023.
  - Perchlorate increased in MW-8 to 9,260 µg/L in June 2024 from 6,070 µg/L in December 2023 and 4,460 µg/L in June 2023. While perchlorate concentrations are substantially less than the historical high of 78,000 µg/L in March 2012, perchlorate has an increasing trend since August 2022. TCE at MW-8 was detected at 610 µg/L in June 2024, showing that TCE has steadily increased since June 2021. MC remained below the detection limit in MW-8.
  - Perchlorate was not detected at MW-17 in June 2024. TCE and MC were not analyzed.
- MW-16 is located west of the site in the shallow zone. Perchlorate concentrations substantially increased from December 2023 to 674 µg/L in June 2024. This is the highest concentration of perchlorate at MW-16 since June 2020. TCE increased from the December 2023 concentration of 220 µg/L to 668 µg/L in June 2024. The higher detection of TCE in June versus December has been observed from December 2018 through December 2021. However, this seasonal variation was not observed based on the August 2022 analytical results and is less variable from January 2023 through December 2023. MC remained below the detection limit.
- MW-21 is located on the eastern side of the site in the shallow zone. The perchlorate concentration in MW-21 decreased from the December 2023 of 2,350 µg/L to 1,610 µg/L in June 2024, and still represents an overall decreasing trend from 6,220 µg/L in December 2022, 9,080 µg/L in August 2022, and 9,660 µg/L in December 2021. MC remained below the detection limit. TCE in MW-21 was detected at 6,280 µg/L which is consistent with the 2022 results of 6,300 µg/L and 6,400 µg/L in August and December respectively. TCE is trending stable overall.
- MW-22 is in the east-southeast portion of the site in the shallow zone. Perchlorate concentrations increased in June 2024, with concentrations measured at 3,320 µg/L. Overall, an increasing trend in perchlorate is observed starting with the December 2017 sampling event. The TCE concentration in MW-22 during the June 2024 sampling event was 253 µg/L, which was consistent with the December 2023 detection of 360 µg/L. Overall, the

TCE detected in MW-22 has been stable overall since June 2019. MC remained below the detection limit.

- MW-23 is located in the south-central portion of the site in the shallow zone. Perchlorate detected in MW-23 in June 2024 at 79,200 µg/L, which is stable when compared with concentrations collected from MW-23 since December 2019. TCE was detected at 2,400 µg/L in June 2024, which is a slight decrease from the December 2023 concentration of 3,100 µg/L. The TCE detections present higher concentrations in December sampling events compared to the June sampling events since 2015. MC was non-detect during the June 2024 sample event.
- Monitoring well 109 is in the northeastern portion of the site in the shallow zone. Groundwater from monitoring well 109 was measured as having perchlorate concentrations of 4,390, an increase from the December 2023 concentration of 2,700 µg/L. While perchlorate concentrations did increase, the overall concentration is an order of magnitude lower than perchlorate concentrations during June 2021 and December 2021. TCE was detected at 1,140 µg/L in June 2024, which is comparable to detections of 1,500 µg/L in December 2023 and 1,200 µg/L in June 2023 and December 2022. This sample shows a decrease in TCE concentrations for the first time since December 2021. MC remained non-detect in December 2023.
- Monitoring well 120 is located on the west side of the site in the shallow zone. Perchlorate at 120 was detected at 9,670 µg/L in June 2024, which is a small decrease from the December 2023 sample measured at 14,200 µg/L Overall, the trend for perchlorate in monitoring well 120 has been stable since 2019. The MC concentration continued to be non-detect. The June 2024 TCE concentration showed a decrease in concentration in June 2024 to 5,700 µg/L. The TCE trend for monitoring well 120 has generally been stable since 2019 with the higher detections of TCE occurring in December 2019 and 2022.
- During the June 2024 sampling event, monitoring well 126 had no detections of perchlorate, TCE, or MC. This well confirms that the extent of groundwater contamination in the shallow zone is currently delineated to the south.

2.4.2.2 Wilcox Formation Trend Analysis

The following observations were made for the Wilcox Formation groundwater, based on the June 2024 groundwater monitoring results:

- C-03 is a Wilcox Formation well located northeast of the ICT containment area. Perchlorate concentrations decreased to 43.6 µg/L in June 2024 from the 86 µg/L detection in December 2023. The December 2023 concentration is a decrease from 220 µg/L in December 2021. TCE was last detected at 0.5 µg/L in December 2019 and remains non-detect in June 2024. MC has remained non-detect since December 2014.
- MW-14 is located inside the containment area in the Wilcox Formation. The concentration of perchlorate in MW-14 was 300,000 µg/L in June 2024, nearly double the concentration

from the December 2023 of 164,000 µg/L. This measurement represents the highest perchlorate concentration detected in the history of the site. The concentration of TCE in June 2024, measured as 18,000 µg/L, was also nearly double that recorded in December 2023, which was 9,900 µg/L. The TCE detection from June 2024 represents the highest TCE concentration recorded at the site. MC remained below the detection limit.

2.5 Groundwater Treatment Plant Sampling and Analysis

Sampling and analysis were conducted in accordance with the requirements specified in the Final Revised Sampling and Analysis Plan (AECOM Technical Services [AECOM], Inc., September 2017). Besides the sampling requirement established in the Record of Decision for the Early Interim Remedial Action (United States Army Corp of Engineers [USACE], May 1995), additional sample analyses are typically performed on the influent and effluent samples to monitor the effectiveness of the perchlorate treatment (FBR and/or IX vessels) process. Sections 2.5.1 through 2.5.4 present the results of analyses conducted during the 2nd Quarter of 2024. The complete laboratory results are provided in **Appendix F.**

2.5.1 Weekly Perchlorate Sampling

Table 7 presents the weekly effluent perchlorate results for the 2nd Quarter of 2024. Throughout the 2nd Quarter of 2024, the treated groundwater was processed through the IX vessels to provide additional water treatment for perchlorate prior to discharge to the INF pond. After FBR treatment, the weekly effluent perchlorate samples were collected at two locations including before the first IX vessel (BIX) and after the first IX vessel (AIX). Perchlorate was required to not exceed the PCL of 17 µg/L.

2.5.2 Monthly VOC Sampling

Tables 8, 9, and 10 present the effluent VOC results for April, May, and June 2024, respectively. Monthly sampling of the effluent for VOCs was conducted for April and May 2024, per the Final Installation-Wide Work Plan (Bhate, May 2018). Monthly influent concentrations for perchlorate are also provided in the tables. Monthly and biweekly effluent results from the 2nd Quarter 2024 were below the discharge limits.

2.5.3 Monthly Metals Sampling

Tables 8 and **9** present the monthly influent and effluent metals results for April and May 2024 respectively. Sampling of the influent and effluent for metals was conducted monthly, per the Final Installation Wide Work Plan (Bhate, May 2018). None of the metals exceeded the effluent discharge limits in the 2nd Quarter 2024.

2.5.4 Quarterly Sampling

Table 11 presents the quarterly sampling of the influent and effluent for VOCs, anions, chemical oxygen demand, oil and grease, perchlorate, and metals.

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Figure 2-1. Quarterly Extraction Rate

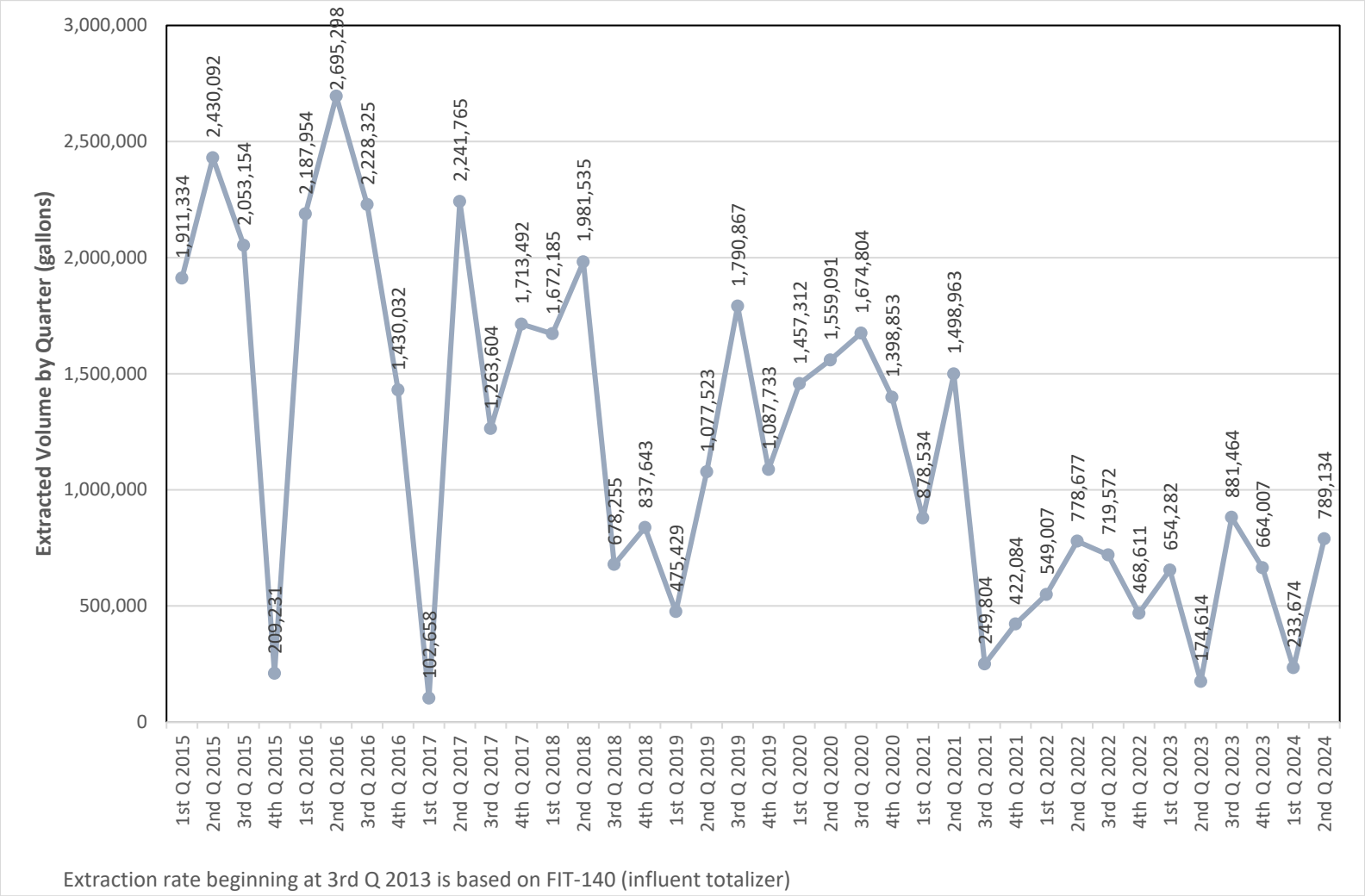


Table 3. Groundwater Elevations at LHAAP-18/24 Piezometers, Monitoring Wells, and Surface Water

Location Identification	Type	Reference Elevation (feet amsl)	Depth to Water (feet) 4/30/2024	Groundwater Elevation (feet amsl) 4/30/2024	Depth to Water (feet) 5/29/2024	Groundwater Elevation (feet amsl) 5/29/2024	Depth to Water (feet) 6/25/2024	Groundwater Elevation (feet amsl) 6/25/2024
BGPZ-1	Piezometer	184.99	7.19	177.80	7.03	177.96	5.22	179.77
BGPZ-2	Piezometer	184.39	14.15	170.24	14.29	170.10	13.49	170.90
BGPZ-3	Piezometer	180.35	11.20	169.15	11.43	168.92	8.49	171.86
BGPZ-4	Piezometer	177.77	9.50	168.27	9.71	168.06	7.75	170.02
BGPZ-5	Piezometer	180.76	10.18	170.58	10.37	170.39	9.21	171.55
BGPZ-6	Piezometer	197.82	27.65	170.17	27.85	169.97	26.95	170.87
BGPZ-7	Piezometer	195.96	27.31	168.65	27.55	168.41	26.71	169.25
BGPZ-8	Piezometer	197.08	28.52	168.56	28.68	168.4	27.85	169.23
BGPZ-9	Piezometer	196.45	26.37	170.08	26.49	169.96	25.73	170.72
BGPZ-10	Piezometer	197.00	27.44	169.56	27.54	169.46	26.62	170.38
BGPZ-11	Piezometer	196.99	27.05	169.94	27.22	169.77	26.33	170.66
BGPZ-12	Piezometer	188.17	NA	Plugged	NA	Plugged	NA	Plugged
AWD-1	Monitoring Well	182.27	9.75	172.52	9.93	172.34	5.15	177.12
AWD-2	Monitoring Well	186.78	14.61	172.17	14.82	171.96	12.66	174.12
AWD-3	Monitoring Well	200.13	26.95	173.18	27.08	173.05	24.25	175.88
AWD-4	Monitoring Well	193.89	23.61	170.28	23.75	170.14	20.58	173.31
MW-1	Monitoring Well	199.22	25.91	173.31	26.07	173.15	21.92	177.30
MW-2	Monitoring Well	196.73	24.80	171.93	24.94	171.79	22.42	174.31
MW-3	Monitoring Well	196.54	26.17	170.37	26.33	170.21	23.61	172.93
MW-4	Monitoring Well	197.27	25.97	171.3	26.19	171.08	23.50	173.77
MW-5	Monitoring Well	194.97	25.09	169.88	25.25	169.72	22.13	172.84
MW-6	Monitoring Well	192.18	22.41	169.77	22.60	169.58	19.81	172.37
MW-7	Monitoring Well	188.47	17.92	170.55	18.12	170.35	15.51	172.96

Table 3. Groundwater Elevations at LHAAP-18/24 Piezometers, Monitoring Wells, and Surface Water

Location Identification	Type	Reference Elevation (feet amsl)	Depth to Water (feet) 4/30/2024	Groundwater Elevation (feet amsl) 4/30/2024	Depth to Water (feet) 5/29/2024	Groundwater Elevation (feet amsl) 5/29/2024	Depth to Water (feet) 6/25/2024	Groundwater Elevation (feet amsl) 6/25/2024
MW-8	Monitoring Well	187.13	16.20	170.93	16.44	170.69	13.33	173.80
MW-9	Monitoring Well	184.73	14.02	170.71	14.20	170.53	11.15	173.58
MW-10	Monitoring Well	178.12	8.45	169.67	8.51	169.61	5.57	172.55
MW-11	Monitoring Well	184.65	16.19	168.46	16.27	168.38	14.69	169.96
MW-12	Monitoring Well	178.33	8.27	170.06	8.15	170.18	5.62	172.71
MW-13	Monitoring Well	176.72	6.74	169.98	6.59	170.13	4.77	171.95
MW-14	Monitoring Well	186.19	13.40	172.79	13.57	172.62	10.43	175.76
MW-16	Monitoring Well	178.59	8.71	169.88	8.61	169.98	6.02	172.57
MW-17	Monitoring Well	179.03	9.63	169.40	9.70	169.33	6.52	172.51
MW-18	Monitoring Well	178.58	8.60	169.98	8.67	169.91	6.33	172.25
MW-19	Monitoring Well	178.60	8.55	170.05	8.63	169.97	6.61	171.99
MW-20	Monitoring Well	186.64	12.24	174.40	12.31	174.33	8.45	178.19
MW-21	Monitoring Well	198.70	28.43	170.27	28.59	170.11	27.55	171.15
MW-22	Monitoring Well	197.51	25.75	171.76	25.89	171.62	25.42	172.09
MW-23	Monitoring Well	198.79	26.30	172.49	26.45	172.34	25.36	173.43
101	Monitoring Well	197.53	10.12	187.41	9.95	187.58	6.91	190.62
102	Monitoring Well	193.94	20.17	173.77	20.29	173.65	16.91	177.03
109	Monitoring Well	197.02	26.30	170.72	26.42	170.60	25.62	171.40
120	Monitoring Well	184.19	12.97	171.22	13.09	171.10	9.12	175.07
123	Monitoring Well	186.21	14.05	172.16	14.20	172.01	12.81	173.40
125	Monitoring Well	196.28	25.16	171.12	25.31	170.97	24.88	171.40
126	Monitoring Well	199.37	28.30	171.07	28.49	170.88	27.28	172.09
129	Monitoring Well	197.24	24.95	172.29	25.18	172.06	22.60	174.64
130	Monitoring Well	177.73	6.81	170.92	7.03	170.70	5.32	172.41

Table 3. Groundwater Elevations at LHAAP-18/24 Piezometers, Monitoring Wells, and Surface Water

Location Identification	Type	Reference Elevation (feet amsl)	Depth to Water (feet) 4/30/2024	Groundwater Elevation (feet amsl) 4/30/2024	Depth to Water (feet) 5/29/2024	Groundwater Elevation (feet amsl) 5/29/2024	Depth to Water (feet) 6/25/2024	Groundwater Elevation (feet amsl) 6/25/2024
C-01	Monitoring Well	193.89	23.70	170.19	23.83	170.06	21.67	172.22
C-02	Monitoring Well	175.95	5.88	170.07	5.93	170.02	3.45	172.50
C-03	Monitoring Well	196.34	26.40	169.94	26.56	169.78	24.42	171.92
C-04	Monitoring Well	194.64	25.08	169.56	25.21	169.43	22.65	171.99
C-04A	Monitoring Well	194.61	24.81	169.8	24.97	169.64	22.95	171.66
C-05	Monitoring Well	180.74	12.10	168.64	12.01	168.73	10.05	170.69
C-06	Monitoring Well	192.22	23.86	168.36	23.98	168.24	22.00	170.22
C-07	Monitoring Well	196.80	28.65	168.15	28.79	168.01	27.77	169.03
C-08	Monitoring Well	193.10	22.31	170.79	22.45	170.65	22.22	170.88
C-09	Monitoring Well	202.35	32.75	169.60	32.83	169.52	31.21	171.14
C-10	Monitoring Well	201.86	32.86	169.00	32.94	168.92	31.37	170.49
17WW08	Monitoring Well	179.72	8.63	171.09	8.59	171.13	7.93	171.79
1824DPTMW01	Monitoring Well	187.97	18.52	169.45	18.60	169.37	18.71	169.26
1824DPTMW02	Monitoring Well	197.90	27.87	170.03	27.96	169.94	27.32	170.58
1824DPTMW03	Monitoring Well	197.30	27.21	170.09	27.39	169.91	27.37	169.93
1824DPTMW04	Monitoring Well	196.25	25.98	170.27	26.15	170.10	26.92	169.33
1824DPTMW05	Monitoring Well	197.57	25.17	172.40	25.33	172.24	23.71	173.86
1824DPTMW06	Monitoring Well	180.35	10.62	169.73	10.49	169.86	7.98	172.37
1824DPTMW07	Monitoring Well	174.10	3.80	170.3	4.14	169.96	3.29	170.81
18WW02	Monitoring Well	179.30	9.60	169.7	9.75	169.55	7.13	172.17
18WW03	Monitoring Well	195.59	26.26	169.33	26.41	169.18	25.31	170.28
18WW04	Monitoring Well	183.74	16.78	166.96	16.85	166.89	15.44	168.30
18WW05	Monitoring Well	189.59	23.11	166.48	23.25	166.34	22.31	167.28
18WW06	Monitoring Well	179.70	10.10	169.60	10.21	169.49	7.37	172.33

Table 3. Groundwater Elevations at LHAAP-18/24 Piezometers, Monitoring Wells, and Surface Water

Location Identification	Type	Reference Elevation (feet amsl)	Depth to Water (feet) 4/30/2024	Groundwater Elevation (feet amsl) 4/30/2024	Depth to Water (feet) 5/29/2024	Groundwater Elevation (feet amsl) 5/29/2024	Depth to Water (feet) 6/25/2024	Groundwater Elevation (feet amsl) 6/25/2024
18WW08	Monitoring Well	177.77	8.20	169.57	8.35	169.42	6.05	171.72
18WW09	Monitoring Well	177.51	7.89	169.62	8.00	169.51	5.65	171.86
18WW10	Monitoring Well	182.26	13.62	168.64	13.76	168.50	8.97	173.29
18WW11	Monitoring Well	182.29	13.70	168.59	13.82	168.47	9.11	173.18
18WW14	Monitoring Well	186.47	16.33	170.14	16.45	170.02	13.30	173.17
18WW15	Monitoring Well	186.24	15.71	170.53	15.90	170.34	12.82	173.42
18WW18	Monitoring Well	196.82	27.37	169.45	27.51	169.31	25.20	171.62
18WW19	Monitoring Well	179.56	11.27	168.29	11.43	168.13	9.55	170.01
18WW20	Monitoring Well	180.42	12.08	168.34	12.24	168.18	9.32	171.10
18WW21	Monitoring Well	195.20	26.84	168.36	26.97	168.23	26.83	168.37
18WW22	Monitoring Well	195.37	25.88	169.49	25.99	169.38	23.58	171.79
18WW24	Monitoring Well	176.40	7.31	169.09	7.45	168.95	5.23	171.17
18WW25	Monitoring Well	175.15	6.05	169.1	6.22	168.93	4.31	170.84
18CPTMW01SW	Monitoring Well	198.20	27.41	170.79	27.59	170.61	25.00	173.20
18CPTMW01DW	Monitoring Well	197.92	28.22	169.70	28.40	169.52	26.78	171.14
18CPTMW03SW	Monitoring Well	198.53	28.90	169.63	29.07	169.46	26.36	172.17
18CPTMW04	Monitoring Well	196.60	23.48	173.12	23.65	172.95	18.15	178.45
18CPTMW04SW	Monitoring Well	196.42	26.80	169.62	26.93	169.49	24.32	172.10
18CPTMW06	Monitoring Well	198.12	28.35	169.77	28.52	169.60	26.17	171.95
18CPTMW07	Monitoring Well	197.32	27.51	169.81	27.73	169.59	25.32	172.00
18CPTMW08SW	Monitoring Well	196.38	26.70	169.68	26.87	169.51	23.97	172.41
18CPTMW08DW	Monitoring Well	196.59	27.45	169.14	27.62	168.97	24.47	172.12
18CPTMW10SW	Monitoring Well	186.98	17.19	169.79	17.33	169.65	14.83	172.15
18CPTMW10DW	Monitoring Well	187.38	17.73	169.65	17.92	169.46	15.30	172.08

Table 3. Groundwater Elevations at LHAAP-18/24 Piezometers, Monitoring Wells, and Surface Water

Location Identification	Type	Reference Elevation (feet amsl)	Depth to Water (feet) 4/30/2024	Groundwater Elevation (feet amsl) 4/30/2024	Depth to Water (feet) 5/29/2024	Groundwater Elevation (feet amsl) 5/29/2024	Depth to Water (feet) 6/25/2024	Groundwater Elevation (feet amsl) 6/25/2024
18CPTMW12SW	Monitoring Well	190.90	21.17	169.73	21.34	169.56	18.94	171.96
18CPTMW12DW	Monitoring Well	190.25	20.58	169.67	20.72	169.53	18.07	172.18
18CPTMW14	Monitoring Well	196.69	25.2	171.49	25.37	171.32	25.05	171.64
18CPTMW15	Monitoring Well	179.79	10.45	169.34	10.58	169.21	7.33	172.46
18CPTMW16	Monitoring Well	175.37	5.61	169.76	5.83	169.54	4.15	171.22
18CPTMW18	Monitoring Well	194.53	25.24	169.29	25.44	169.09	25.43	169.10
18CPTMW19	Monitoring Well	193.59	23.74	169.85	23.88	169.71	20.57	173.02
18CPTMW19SW	Monitoring Well	193.29	23.86	169.43	23.95	169.34	21.10	172.19
18CPTMW22SW	Monitoring Well	187.79	23.95	163.84	24.10	163.69	16.28	171.51
18CPTMW22R	Monitoring Well	187.23	10.51	176.72	10.59	176.64	3.30	183.93
18CPTMW22DW	Monitoring Well	188.00	18.25	169.75	18.40	169.60	16.36	171.64
18CPTMW23	Monitoring Well	177.47	7.75	169.72	7.92	169.55	3.55	173.92
18CPTMW23SW	Monitoring Well	177.43	7.79	169.64	7.97	169.46	5.18	172.25
18CPTMW24	Monitoring Well	194.89	24.71	170.18	24.92	169.97	24.42	170.47
18CPTMW26	Monitoring Well	182.60	17.03	165.57	17.22	165.38	16.29	166.31
18CPTMW26SW	Monitoring Well	182.00	12.12	169.88	12.35	169.65	10.09	171.91
1824HBSW7	Surface Water Sample	167.92	2.49	170.41	2.77	170.69	3.09	171.01

Table 4. Treated Groundwater Discharged-October through December 2023

DATE	Harrison Bayou Flow (gpm)	Maximum Rate Allowed (gpm)	Released From GWTP To Harrison Bayou (gallons)	Released From INF Pond to Harrison Bayou (gallons)	Released From GWTP to INF Pond (gallons)	Combined Total Released to Harrison Bayou (gallons)	INF Pond Staff Reading (feet) (6.20 = 3 feet Freeboard)
04/01/2024	NA	NA	0	0	0	0	0.00
04/02/2024	834	184	9,389	0	0	9,389	0.00
04/03/2024	736	162	9,486	0	0	9,486	0.00
04/04/2024	516	113	6,460	0	0	6,460	0.00
04/05/2024	442	97	0	0	0	0	0.00
04/06/2024	419	91	0	0	0	0	0.00
04/07/2024	376	82	0	0	0	0	0.00
04/08/2024	305	67	38,393	0	0	38,393	0.00
04/09/2024	Flood Stage	Maximum	4,878	0	0	4,878	0.00
04/10/2024	Flood Stage	Maximum	5,959	0	0	5,959	0.00
04/11/2024	Flood Stage	Maximum	10,220	0	0	10,220	0.00
04/12/2024	Flood Stage	Maximum	0	0	0	0	0.00
04/13/2024	Flood Stage	Maximum	0	0	0	0	0.00
04/14/2024	21,208	4,676	0	0	0	0	0.00
04/15/2024	18,203	4,015	38,651	0	0	38,651	0.00
04/16/2024	15,185	3,349	0	0	0	0	0.00
04/17/2024	11,986	2,593	6,775	0	0	6,775	0.00
04/18/2024	9,810	2,122	6,106	0	0	6,106	0.00
04/19/2024	8,975	1,938	0	0	0	0	0.00
04/20/2024	7,563	1,633	0	0	0	0	0.00

DATE	Harrison Bayou Flow (gpm)	Maximum Rate Allowed (gpm)	Released From GWTP To Harrison Bayou (gallons)	Released From INF Pond to Harrison Bayou (gallons)	Released From GWTP to INF Pond (gallons)	Combined Total Released to Harrison Bayou (gallons)	INF Pond Staff Reading (feet) (6.20 = 3 feet Freeboard)
04/21/2024	Flood Stage	Maximum	0	0	0	0	0.00
04/22/2024	Flood Stage	Maximum	43,639	0	0	43,639	0.00
04/23/2024	24,818	5,369	0	0	0	0	0.00
04/24/2024	20,221	4,374	0	0	0	0	0.00
04/25/2024	16,658	3,603	10,123	0	0	10,123	0.00
04/26/2024	13,298	2,872	0	0	0	0	0.00
04/27/2024	10,035	2,167	0	0	0	0	0.00
04/28/2024	8,578	1,852	0	0	0	0	0.00
04/29/2024	8,830	1,910	26,761	0	0	26,761	0.00
04/30/2024	7,931	1,715	2,829	0	0	2,829	0.00
05/01/2024	5,702	1,233	4,045	0	0	4,045	0.00
05/02/2024	5,373	1,162	2,090	0	0	2,090	0.00
05/03/2024	7,298	1,569	0	0	0	0	0.00
05/04/2024	6,657	1,431	0	0	0	0	0.00
05/05/2024	6,209	1,334	0	0	0	0	0.00
05/06/2024	5,406	1,169	17,004	0	0	17,004	0.00
05/07/2024	4,748	1,027	0	0	0	0	0.00
05/08/2024	3,706	801	3,104	0	0	3,104	0.00
05/09/2024	3,303	714	4,686	0	0	4,686	0.00
05/10/2024	3,110	668	0	0	0	0	0.00
05/11/2024	2,856	614	0	0	0	0	0.00

DATE	Harrison Bayou Flow (gpm)	Maximum Rate Allowed (gpm)	Released From GWTP To Harrison Bayou (gallons)	Released From INF Pond to Harrison Bayou (gallons)	Released From GWTP to INF Pond (gallons)	Combined Total Released to Harrison Bayou (gallons)	INF Pond Staff Reading (feet) (6.20 = 3 feet Freeboard)
05/12/2024	2,377	511	0	0	0	0	0.00
05/13/2024	25,703	5,560	18,860	0	0	18,860	0.00
05/14/2024	20,914	4,524	0	0	0	0	0.00
05/15/2024	18,219	3,941	6,195	0	0	6,195	0.00
05/16/2024	15,539	3,361	0	0	0	0	0.00
05/17/2024	11,289	2,427	0	0	0	0	0.00
05/18/2024	9,856	2,119	0	0	0	0	0.00
05/19/2024	7,508	1,614	0	0	0	0	0.00
05/20/2024	5,704	1,234	23,621	0	0	23,621	0.00
05/21/2024	4,838	1,046	589	0	0	589	0.00
05/22/2024	4,025	870	9,977	0	0	9,977	0.00
05/23/2024	3,284	710	0	0	0	0	0.00
05/24/2024	NA	NA	0	0	0	0	0.00
05/25/2024	NA	NA	0	0	0	0	0.00
05/26/2024	NA	NA	0	0	0	0	0.00
05/27/2024	NA	NA	0	0	0	0	0.00
05/28/2024	NA	NA	0	0	0	0	0.00
05/29/2024	NA	NA	0	0	0	0	0.00
05/30/2024	NA	NA	0	0	0	0	0.00
05/31/2024	NA	NA	0	0	0	0	0.00
06/01/2024	NA	NA	0	0	0	0	0.00

DATE	Harrison Bayou Flow (gpm)	Maximum Rate Allowed (gpm)	Released From GWTP To Harrison Bayou (gallons)	Released From INF Pond to Harrison Bayou (gallons)	Released From GWTP to INF Pond (gallons)	Combined Total Released to Harrison Bayou (gallons)	INF Pond Staff Reading (feet) (6.20 = 3 feet Freeboard)
06/02/2024	NA	NA	0	0	0	0	0.00
06/03/2024	NA	NA	0	0	0	0	0.00
06/04/2024	NA	NA	0	0	0	0	0.00
06/05/2024	NA	NA	0	0	0	0	0.00
06/06/2024	NA	NA	0	0	0	0	0.00
06/07/2024	NA	NA	0	0	0	0	0.00
06/08/2024	NA	NA	0	0	0	0	0.00
06/09/2024	NA	NA	0	0	0	0	0.00
06/10/2024	NA	NA	0	0	0	0	0.00
06/11/2024	Flood Stage	Maximum	8,446	0	0	8,446	0.00
06/12/2024	Flood Stage	Maximum	3,036	0	0	3,036	0.00
06/13/2024	16,322	3,531	9,479	0	0	9,479	0.00
06/14/2024	13,968	3,017	0	0	0	0	0.00
06/15/2024	11,258	2,431	0	0	0	0	0.00
06/16/2024	9,523	2,056	0	0	0	0	0.00
06/17/2024	7,319	1,583	22,256	0	0	22,256	0.00
06/18/2024	NA	NA	0	0	0	0	0.00
06/19/2024	5,171	1,118	2,044	0	0	2,044	0.00
06/20/2024	3,763	814	9,279	0	0	9,279	0.00
06/21/2024	3,128	675	0	0	0	0	0.00
06/22/2024	2,597	560	0	0	0	0	0.00

DATE	Harrison Bayou Flow (gpm)	Maximum Rate Allowed (gpm)	Released From GWTP To Harrison Bayou (gallons)	Released From INF Pond to Harrison Bayou (gallons)	Released From GWTP to INF Pond (gallons)	Combined Total Released to Harrison Bayou (gallons)	INF Pond Staff Reading (feet) (6.20 = 3 feet Freeboard)
06/23/2024	1,955	422	0	0	0	0	0.00
06/24/2024	1,590	344	10,073	0	0	10,073	0.00
06/25/2024	1,346	291	1,948	0	0	1,948	0.00
06/26/2024	1,186	256	4,015	0	0	4,015	0.00
06/27/2024	NA	NA	0	0	0	0	0.00
06/28/2024	NA	NA	0	0	0	0	0.00
06/29/2024	1,536	331	0	0	0	0	0.00
06/30/2024	1,298	280	21,135	0	0	21,135	0.00
TOTAL	-	-	401,551	0	0	401,551	

Notes:

The maximum discharge rate from the INF Pond is 170 gallons per minute (gpm) and the maximum discharge rate from the GWTP is 30 gpm.
NA = Not applicable
Treated groundwater volume released over the weekend is included in the total for the next working day. These dates are marked with an asterisk (*).

Table 5. Monthly Groundwater Extraction Quantities – April through June 2024

ICT or Well Number	April 2024 (gallons)	May 2024 (gallons)	June 2024 (gallons)	Total
1	-	-	-	-
2	-	-	-	-
3	-	-	-	-
4	20,644	25,790	19,616	66,050
5	-	-	-	-
EW-01	101	59	20	180
7	5,140	3,708	9,622	18,470
8	20,359	26,156	21,191	67,706
18WW17	16,418	179	2,272	18,869
10	-	-	-	-
11	7,926	15,562	9,098	32,586
12A	-	-	-	-
12B	14,175	14,595	3,858	32,628
12C	17,202	14,530	16,925	48,657
12D	32,450	28,514	18,649	79,613
12E	30,315	3,362	-	33,677
13A	4,704	444	1,744	6,892
13B	7,387	809	49	8,245
13C	-	-	-	-
13D	15,644	10,954	5,799	32,397
13E	18,022	10,106	11,154	39,282
13F	15,574	3,451	3,094	22,119
14A	890	639	473	2,002
14B	13,959	11,089	8,453	33,501
14C	4,795	10,592	2,115	17,502
14D	16,515	19,499	16,000	52,014
14E	6,657	7,276	3,379	17,312
LHAAP-18/24 Total	**268,877**	**207,314**	**153,511**	**629,702**
Site 17	57,718	29,258	-	86,976
LHAAP-17 Total	**57,718**	**29,258**	**-**	**86,976**
Total	**326,595**	**236,572**	**153,511**	**716,678**

Notes:
ICTs 6 & 9 were converted from extraction to infiltration trenches beginning September 18, 2007.
ICTs 1, 3, 5, and 10 were deactivated on February 18, 2008 as part of a pilot study for system optimization.
"—" represents no extraction from the ICT wells during that month

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Table 6. LHAAP-18/24 Analytical Results -- June 2024
2nd Quarter 2024 Groundwater Treatment Plant Report
Longhorn Army Ammunition Plant

Sample ID				AWD1_061224	AWD3_060724	AWD4_061324	18CPTMW01SW_060624	18CPTMW01DW_060624	18CPTMW03SW_060624	18CPTMW04SW_060724	18CPTMW04_060724
Aquifer Zone			MCL/MSC/PCL	Shallow	Shallow	Shallow	Wilcox	Wilcox	Wilcox	Wilcox	Shallow
Well Identification				AWD-1	AWD-3	AWD-4	18CPTMW01SW	18CPTMW01DW	18CPTMW03SW	18CPTMW04SW	18CPTMW04
ANALYTE	CAS NUMBER	UNITS									
Method: 6850											
Perchlorate		µg/L	17*	NA	**3.50**	**579**	0.0500 U	0.0500 U	**11.5**	0.0500 U	**225**
Method: SW6020A											
Aluminum	7429-90-5	mg/L	100	NA	**0.0603**	**1.48**	**0.0550**	**0.0170**	**0.0343**	**0.0253**	NA
Antimony	7440-36-0	mg/L	0.006	NA	0.00125 U	0.00125 U	0.00125 U	0.00125 U	**0.00224 J**	**0.000405 J**	NA
Arsenic	7440-38-2	mg/L	0.01	NA	0.00125 U	**0.000666 J**	**0.00770**	**0.00339 J**	**0.00269 J**	**0.00257**	NA
Barium	7440-39-3	mg/L	2	NA	**0.0418**	**0.313**	**1.34**	**0.190**	**0.204**	**0.108**	NA
Beryllium	7440-41-7	mg/L	0.004	NA	0.000500 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	NA
Cadmium	7440-43-9	mg/L	0.005	NA	0.000500 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	NA
Calcium	7440-70-2	mg/L	NV	NA	**0.810**	**35.9**	**50.5**	**10.1**	**30.7**	**5.03**	NA
Chromium	7440-47-3	mg/L	0.1	NA	**0.0177**	**0.211**	**0.00892**	**0.00957**	**0.00629**	**0.0215**	NA
Cobalt	7440-48-4	mg/L	6.1	NA	**0.000528 J**	**0.00501**	**0.00126 J**	**0.000322 J**	**0.00214 J**	**0.000495 J**	NA
Copper	7440-50-8	mg/L	1.3	NA	**0.00139 J**	**0.0162**	0.00125 U	0.00125 U	0.00125 U	0.00125 U	NA
Iron	7439-89-6	mg/L	NV	NA	**0.157 J**	**13.1**	**62.0**	**1.18**	**5.71**	**1.56**	NA
Lead	7439-92-1	mg/L	0.015	NA	0.00125 U	0.00125 U	0.00125 U	0.00125 U	0.00125 U	0.00125 U	NA
Magnesium	7439-95-4	mg/L	NV	NA	**0.479**	**6.97**	**27.0**	**13.2**	**14.7**	**11.8**	NA
Manganese	7439-96-5	mg/L	1.1*	NA	**0.00827**	**0.0473**	**0.657**	**0.0150**	**0.226**	**0.0642**	NA
Nickel	7440-02-0	mg/L	0.49*	NA	**0.00951**	**0.558**	**0.00230 J**	**0.00226 J**	**0.00789**	**0.00142 J**	NA
Potassium	7440-09-7	mg/L	NV	NA	**0.634**	**0.364**	**14.9**	**114**	**214**	**228**	NA
Selenium	7782-49-2	mg/L	0.05	NA	**0.00602**	0.00125 U	0.00125 U	0.00125 U	0.00125 U	0.00125 U	NA
Silver	7440-22-4	mg/L	0.51	NA	0.000500 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	NA
Sodium	7440-23-5	mg/L	NV	NA	**27.0**	**31.0**	**116**	**512**	**276**	**167**	NA
Thallium	7440-28-0	mg/L	0.002	NA	0.000500 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	NA
Vanadium	7440-62-2	mg/L	0.72	NA	0.00125 U	**0.00459 J**	0.00125 U	0.00125 U	0.00125 U	0.00125 U	NA
Zinc	7440-66-6	mg/L	31	NA	**0.00328 J**	**0.00864**	**0.00679**	**0.00668**	**0.0177**	**0.0216**	NA
Method: SW7470A											
Mercury	7439-97-6	mg/L	0.002	NA	0.000100 U	**0.0000340 J**	0.000100 U	0.000100 U	0.000100 U	0.000100 U	NA
Method: SW8260											
1,1,1,2-Tetrachloroethane	630-20-6	µg/L	110	NA	5.0 U	0.75 U	50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,1-Trichloroethane	71-55-6	µg/L	200	NA	5.0 U	0.75 U	50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	79-34-5	µg/L	14	NA	10 U	0.75 U	100 U	1.0 U	1.0 U	0.50 U	0.50 U
1,1,2-Trichloroethane	79-00-5	µg/L	5	NA	5.0 U	0.75 U	50 U	0.5 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethane	75-34-3	µg/L	10,000	NA	5.0 U	0.75 U	50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	75-35-4	µg/L	7	NA	5.0 U	0.75 U	50 U	0.50 U	1.0 U	0.50 U	0.50 U
1,1-Dichloropropene	563-58-6	µg/L	2.9	NA	5.0 U	0.75 U	50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	87-61-6	µg/L	310	NA	5.0 U	0.75 U	50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichloropropane	96-18-4	µg/L	0.041	NA	5.0 U	2.5 U	50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-Trichlorobenzene	120-82-1	µg/L	70	NA	5.0 U	0.75 U	50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-Trimethylbenzene	95-63-6	µg/L	5,100	NA	5.0 U	0.75 U	50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromo-3-chloropropane	96-12-8	µg/L	0.2	NA	5.0 U	2.5 U	50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromoethane	106-93-4	µg/L	0.05	NA	5.0 U	0.75 U	50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	95-50-1	µg/L	600	NA	5.0 U	0.75 U	50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloroethane	107-06-2	µg/L	5	NA	5.0 U	0.75 U	50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	78-87-5	µg/L	5	NA	5.0 U	0.75 U	50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,3,5-Trimethylbenzene	108-67-8	µg/L	5,100	NA	5.0 U	0.75 U	50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichlorobenzene	541-73-1	µg/L	3,100	NA	5.0 U	0.75 U	50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichloropropane	142-28-9	µg/L	29	NA	5.0 U	0.75 U	50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,4-Dichlorobenzene	106-46-7	µg/L	75	NA	5.0 U	0.75 U	50 U	0.50 U	0.50 U	0.50 U	0.50 U
2,2-Dichloropropane	594-20-7	µg/L	42	NA	5.0 U	0.75 U	50 U	0.5 U	0.50 U	0.50 U	0.50 U
2-Butanone	78-93-3	µg/L	61,000	NA	10 U	3.8 U	100 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Chlorotoluene	95-49-8	µg/L	2,000	NA	5.0 U	0.75 U	50 U	0.50 U	0.50 U	0.50 U	0.50 U
2-Hexanone	591-78-6	µg/L	6,100	NA	10 U	3.8 U	100 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Chlorotoluene	106-43-4	µg/L	2,000	NA	5.0 U	0.75 U	50 U	0.50 U	0.50 U	0.50 U	0.50 U

Table 6. LHAAP-18/24 Analytical Results -- June 2024
2nd Quarter 2024 Groundwater Treatment Plant Report
Longhorn Army Ammunition Plant

Sample ID				AWD1_061224	AWD3_060724	AWD4_061324	18CPTMW01SW_060624	18CPTMW01DW_060624	18CPTMW03SW_060624	18CPTMW04SW_060724	18CPTMW04_060724
Aquifer Zone			MCL/MSC/PCL	Shallow	Shallow	Shallow	Wilcox	Wilcox	Wilcox	Wilcox	Shallow
Well Identification				AWD-1	AWD-3	AWD-4	18CPTMW01SW	18CPTMW01DW	18CPTMW03SW	18CPTMW04SW	18CPTMW04
ANALYTE	CAS NUMBER	UNITS									
4-Isopropyltoluene	99-87-6	µg/L	10,000	NA	5.0 U	0.75 U	50 U	0.50 U	0.50 U	0.50 U	0.50 U
4-Methyl-2-pentanone	108-10-1	µg/L	8,200	NA	5.0 U	3.8 U	50 U	0.50 U	1.0 U	0.50 U	0.50 U
Acetone	67-64-1	µg/L	92,000	NA	5.0 U	3.8 U	50 U	0.50 U	1.0 U	0.50 U	0.50 U
Benzene	71-43-2	µg/L	5	NA	5.0 U	0.75 U	50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromobenzene	108-86-1	µg/L	2,000	NA	5.0 U	0.75 U	50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromochloromethane	74-97-5	µg/L	4,100	NA	5.0 U	0.75 U	50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromodichloromethane	75-27-4	µg/L	4.6	NA	5.0 U	0.75 U	50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromoform	75-25-2	µg/L	36	NA	5.0 U	0.75 U	50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromomethane	74-83-9	µg/L	140	NA	5.0 U	0.75 U	50 U	0.50 U	0.50 U	0.50 U	0.50 U
Carbon disulfide	75-15-0	µg/L	10,000	NA	5.0 U	0.75 U	50 U	0.50 U	1.0 U	0.50 U	0.50 U
Carbon tetrachloride	56-23-5	µg/L	5	NA	5.0 U	0.75 U	50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chlorobenzene	108-90-7	µg/L	100	NA	5.0 U	0.75 U	50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroethane	75-00-3	µg/L	41,000	NA	5.0 U	0.75 U	50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform	67-66-3	µg/L	1,000	NA	5.0 U	0.75 U	50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloromethane	74-87-3	µg/L	220	NA	5.0 U	0.75 U	50 U	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	156-59-2	µg/L	70	NA	5.0 U	1.0 U	**2,300**	0.50 U	**14**	0.50 U	**7.5**
cis-1,3-Dichloropropene	10061-01-5	µg/L	5.3	NA	5.0 U	0.75 U	50 U	0.50 U	0.50 U	0.50 U	0.50 U
Dibromochloromethane	124-48-1	µg/L	34	NA	5.0 U	0.75 U	50 U	0.50 U	0.50 U	0.50 U	0.50 U
Dibromomethane	74-95-3	µg/L	380	NA	5.0 U	0.75 U	50 U	0.50 U	0.50 U	0.50 U	0.50 U
Dichlorodifluoromethane	75-71-8	µg/L	20,000	NA	5.0 U	0.75 U	50 U	0.50 U	0.50 U	0.50 U	0.50 U
Ethylbenzene	100-41-4	µg/L	700	NA	5.0 U	0.75 U	50 U	0.50 U	0.50 U	0.50 U	0.50 U
Hexachlorobutadiene	87-68-3	µg/L	20	NA	5.0 U	3.8 U	50 U	0.50 U	0.50 U	0.50 U	0.50 U
Isopropylbenzene	98-82-8	µg/L	10,000	NA	5.0 U	0.75 U	50 U	0.50 U	0.50 U	0.50 U	0.50 U
m,p-Xylene	179601-23-1	µg/L	10,000**	NA	10 U	1.5 U	100 U	1.0 U	1.0 U	0.50 U	0.50 U
Methylene chloride	75-09-2	µg/L	5	NA	5.0 U	0.75 U	**8,300**	0.50 U	0.50 U	0.50 U	0.50 U
Naphthalene	91-20-3	µg/L	2,000	NA	5.0 U	0.75 U	50 U	0.50 U	0.50 U	0.50 U	0.50 U
n-Butylbenzene	104-51-8	µg/L	4,100	NA	5.0 U	0.75 U	50 U	0.50 U	0.50 U	0.50 U	0.50 U
n-Propylbenzene	103-65-1	µg/L	4,100	NA	5.0 U	0.75 U	50 U	0.50 U	0.50 U	0.50 U	0.50 U
o-Xylene	95-47-6	µg/L	10,000**	NA	5.0 U	0.75 U	50 U	0.50 U	0.50 U	0.50 U	0.50 U
sec-Butylbenzene	135-98-8	µg/L	4,100	NA	5.0 U	0.75 U	50 U	0.50 U	0.50 U	0.50 U	0.50 U
Styrene	100-42-5	µg/L	100	NA	5.0 U	0.75 U	50 U	0.50 U	0.50 U	0.50 U	0.50 U
tert-Butylbenzene	98-06-6	µg/L	4,100	NA	5.0 U	0.75 U	50 U	0.50 U	0.50 U	0.50 U	0.50 U
Tetrachloroethene	127-18-4	µg/L	5	NA	5.0 U	0.75 U	50 U	0.50 U	0.50 U	0.50 U	0.50 U
Toluene	108-88-3	µg/L	1,000	NA	5.0 U	0.75 U	50 U	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	156-60-5	µg/L	100	NA	5.0 U	0.75 U	50 U	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,3-Dichloropropene	10061-02-6	µg/L	29	NA	5.0 U	0.75 U	50 U	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	79-01-6	µg/L	5	NA	**760**	**2.9 J+**	50 U	**1.3**	**7.5**	0.50 U	**190**
Trichlorofluoromethane	75-69-4	µg/L	31,000	NA	5.0 U	0.75 U	50 U	0.50 U	0.50 U	0.50 U	0.50 U
Vinyl chloride	75-01-4	µg/L	2	NA	5.0 U	0.75 U	50 U	0.50 U	0.50 U	0.50 U	0.50 U
Method: SW8270SIM											
1,4-Dioxane	123-91-1	ug/L	9.1	0.67	NA	0.020 U	0.020 U	**0.16**	**0.13**	**0.024 J**	**0.10**

Notes:

Blue highlighting indicates concentrations above the MCL/MSC/PCL

MCL/MSC - Maximum Contaminant Limit/Medium-Specific Concentrations/Protective Concentration Level.PCL - Texas Risk Reduction Program (TRRP) Tier 1 Groundwater Residential Protective Concentration Level

NA - Not Analyzed/Not Applicable; NV - No value

µg/L - micrograms per liter; mg/L - milligrams per liter

a - duplicate sample

J - Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.

UJ - The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

U - Undetected: The analyte was analyzed for, but not detected at the limit of detection presented.

UB - considered a non-detect due to blank contamination

*Perchlorate, manganese, and nickel compared to the PCL

** Value is for total xylenes

PCL - Texas Risk Reduction Program (TRRP) Tier 1 Groundwater Residential Protective Concentration Level

Table 6. LHAAP-18/24 Analytical Results -- June 2024
2nd Quarter 2024 Groundwater Treatment Plant Report
Longhorn Army Ammunition Plant

Sample ID				18CPTMW06_061224	18CPTMW07_060624	18CPTMW08DW_060524	18CPTMW08SW_060524	18CPTMW10SW_061424	18CPTMW10DW_061424	18CPTMW10DW_061424_a	18CPTMW12SW_061124	18CPTMW12DW_061124	18CPTMW14_061824
Aquifer Zone				Wilcox	Wilcox	Wilcox	Wilcox	Wilcox	Wilcox	Wilcox	Wilcox	Wilcox	Shallow
Well Identification				18CPTMW06	18CPTMW07	18CPTMW08DW	18CPTMW08SW	18CPTMW10SW	18CPTMW10DW	18CPTMW10DW	18CPTMW12SW	18CPTMW12DW	18CPTMW14
ANALYTE	CAS NUMBER	UNITS	MCL/MSC/PCL										
Method: 6850													
Perchlorate		µg/L	17*	**6.21**	**1.45**	**12,300**	**18,600**	0.0500 U	**1,070**	**1,100**	**29.1**	0.0500 U	**788**
Method: SW6020A													
Aluminum	7429-90-5	mg/L	100	NA	NA	NA	NA	NA	**0.0429**	**0.0495**	**0.0192**	**0.0139**	**0.0759**
Antimony	7440-36-0	mg/L	0.006	NA	NA	NA	NA	NA	0.00125 U	0.00125 U	0.00125 U	0.00125 U	0.00125 U
Arsenic	7440-38-2	mg/L	0.01	NA	NA	NA	NA	NA	**0.000748 J**	**0.000764 J**	**0.000437 J**	**0.00141 J**	**0.00143 J**
Barium	7440-39-3	mg/L	2	NA	NA	NA	NA	NA	**0.376**	**0.374**	**0.732**	**0.259**	**2.51**
Beryllium	7440-41-7	mg/L	0.004	NA	NA	NA	NA	NA	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U
Cadmium	7440-43-9	mg/L	0.005	NA	NA	NA	NA	NA	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U
Calcium	7440-70-2	mg/L	NV	NA	NA	NA	NA	NA	**64.1**	**63.3**	**65.5**	**28.5**	**331**
Chromium	7440-47-3	mg/L	0.1	NA	NA	NA	NA	NA	**0.00480 J**	**0.00460 J**	**0.00813**	**0.00341 J**	**0.0234**
Cobalt	7440-48-4	mg/L	6.1	NA	NA	NA	NA	NA	**0.000276 J**	**0.000282 J**	**0.000984 J**	**0.000157 J**	**0.00150 J**
Copper	7440-50-8	mg/L	1.3	NA	NA	NA	NA	NA	0.00200 U	0.00200 U	0.00200 U	0.00200 U	0.00200 U
Iron	7439-89-6	mg/L	NV	NA	NA	NA	NA	NA	**5.73**	**5.75**	**0.500**	**2.43**	**0.170 J**
Lead	7439-92-1	mg/L	0.015	NA	NA	NA	NA	NA	0.00125 U	0.00125 U	0.00125 U	0.00125 U	0.00125 U
Magnesium	7439-95-4	mg/L	NV	NA	NA	NA	NA	NA	**12.9**	**12.7**	**35.3**	**12.2**	**88.6**
Manganese	7439-96-5	mg/L	1.1*	NA	NA	NA	NA	NA	**0.290**	**0.286**	**0.0932**	**0.179**	**0.0508**
Nickel	7440-02-0	mg/L	0.49*	NA	NA	NA	NA	NA	**0.00223 J**	**0.00131 J**	**0.00136 J**	**0.000642 J**	**0.00225 J**
Potassium	7440-09-7	mg/L	NV	NA	NA	NA	NA	NA	**54.4**	**53.3**	**33.7**	**70.3**	**5.98**
Selenium	7782-49-2	mg/L	0.05	NA	NA	NA	NA	NA	0.00125 U	0.00125 U	0.00125 U	0.00125 U	0.00125 U
Silver	7440-22-4	mg/L	0.51	NA	NA	NA	NA	NA	0.000500 U	0.000500 U	0.000500 U	0.000500 U	0.000500 U
Sodium	7440-23-5	mg/L	NV	NA	NA	NA	NA	NA	**153**	**149**	**258**	**211**	**682**
Thallium	7440-28-0	mg/L	0.002	NA	NA	NA	NA	NA	0.000500 U	0.000500 U	0.000500 U	0.000500 U	0.000500 U
Vanadium	7440-62-2	mg/L	0.72	NA	NA	NA	NA	NA	0.00125 U	0.00125 U	0.00125 U	**0.000854 J**	**0.00226 J**
Zinc	7440-66-6	mg/L	31	NA	NA	NA	NA	NA	**0.00804**	**0.00876**	**0.0136**	**0.00476 J**	**0.00510**
Method: SW7470A													
Mercury	7439-97-6	mg/L	0.002	NA	NA	NA	NA	NA	0.000100 U	0.000100 U	0.000100 U	0.000100 U	0.000100 U
Method: SW8260													
1,1,1,2-Tetrachloroethane	630-20-6	µg/L	110	0.75 U	0.50 U	NA	0.50 U	0.75 U	0.75 U	0.75 U	0.50 U	0.50 U	0.75 U
1,1,1-Trichloroethane	71-55-6	µg/L	200	0.75 U	0.50 U	NA	0.50 U	0.75 U	0.75 U	0.75 U	0.50 U	0.50 U	0.75 U
1,1,2,2-Tetrachloroethane	79-34-5	µg/L	14	0.75 U	1.0 U	NA	1.0 U	0.75 U	0.75 U	0.75 U	1.0 U	1.0 U	0.75 U
1,1,2-Trichloroethane	79-00-5	µg/L	5	0.75 U	0.50 U	NA	0.50 U	0.75 U	0.75 U	0.75 U	0.50 U	0.50 U	**0.57 J**
1,1-Dichloroethane	75-34-3	µg/L	10,000	0.75 U	0.50 U	NA	**3.4**	0.75 U	0.75 U	0.75 U	0.50 U	0.50 U	0.75 U
1,1-Dichloroethene	75-35-4	µg/L	7	0.75 U	0.50 U	NA	1.0 U	0.75 U	0.75 U	0.75 U	1.0 U	1.0 U	**5.4**
1,1-Dichloropropene	563-58-6	µg/L	2.9	0.75 U	0.50 U	NA	0.50 U	0.75 U	0.75 U	0.75 U	0.50 U	0.50 U	0.75 U
1,2,3-Trichlorobenzene	87-61-6	µg/L	310	0.75 U	0.50 U	NA	0.50 U	0.75 U	0.75 U	0.75 U	0.50 U	0.50 U	0.75 U
1,2,3-Trichloropropane	96-18-4	µg/L	0.041	2.5 U	0.50 U	NA	0.50 U	2.5 U	2.5 U	2.5 U	1.0 U	1.0 U	2.5 U
1,2,4-Trichlorobenzene	120-82-1	µg/L	70	0.75 U	0.50 U	NA	0.50 U	0.75 U	0.75 U	0.75 U	1.0 U	1.0 U	0.75 U
1,2,4-Trimethylbenzene	95-63-6	µg/L	5,100	0.75 U	0.50 U	NA	0.50 U	0.75 U	0.75 U	0.75 U	0.50 U	0.50 U	0.75 U
1,2-Dibromo-3-chloropropane	96-12-8	µg/L	0.2	2.5 U	0.50 U	NA	0.50 U	2.5 U	2.5 U	2.5 U	0.50 U	0.50 U	2.5 U
1,2-Dibromoethane	106-93-4	µg/L	0.05	0.75 U	0.50 U	NA	0.50 U	0.75 U	0.75 U	0.75 U	0.50 U	0.50 U	0.75 U
1,2-Dichlorobenzene	95-50-1	µg/L	600	0.75 U	0.50 U	NA	0.50 U	0.75 U	0.75 U	0.75 U	1.0 U	1.0 U	0.75 U
1,2-Dichloroethane	107-06-2	µg/L	5	0.75 U	0.50 U	NA	0.50 U	0.75 U	0.75 U	0.75 U	0.50 U	0.50 U	0.75 U
1,2-Dichloropropane	78-87-5	µg/L	5	0.75 U	0.50 U	NA	0.50 U	0.75 U	0.75 U	0.75 U	0.50 U	0.50 U	0.75 U
1,3,5-Trimethylbenzene	108-67-8	µg/L	5,100	0.75 U	0.50 U	NA	0.50 U	0.75 U	0.75 U	0.75 U	0.50 U	0.50 U	0.75 U
1,3-Dichlorobenzene	541-73-1	µg/L	3,100	0.75 U	0.50 U	NA	0.50 U	0.75 U	0.75 U	0.75 U	0.50 U	0.50 U	0.75 U
1,3-Dichloropropane	142-28-9	µg/L	29	0.75 U	0.50 U	NA	0.50 U	0.75 U	0.75 U	0.75 U	1.0 U	1.0 U	0.75 U
1,4-Dichlorobenzene	106-46-7	µg/L	75	0.75 U	0.50 U	NA	0.50 U	0.75 U	0.75 U	0.75 U	0.50 U	0.50 U	0.75 U
2,2-Dichloropropane	594-20-7	µg/L	42	0.75 U	0.50 U	NA	0.50 U	0.75 U	0.75 U	0.75 U	0.50 U	0.50 U	0.75 U
2-Butanone	78-93-3	µg/L	61,000	3.8 U	1.0 U	NA	1.0 U	3.8 U	3.8 U	3.8 U	1.0 U	1.0 U	3.8 U
2-Chlorotoluene	95-49-8	µg/L	2,000	0.75 U	0.50 U	NA	0.50 U	0.75 U	0.75 U	0.75 U	0.50 U	0.50 U	0.75 U
2-Hexanone	591-78-6	µg/L	6,100	3.8 U	1.0 U	NA	1.0 U	3.8 U	3.8 U	3.8 U	2.0 U	2.0 U	3.8 U
4-Chlorotoluene	106-43-4	µg/L	2,000	0.75 U	0.50 U	NA	0.50 U	0.75 U	0.75 U	0.75 U	0.50 U	0.50 U	0.75 U

Table 6. LHAAP-18/24 Analytical Results -- June 2024
2nd Quarter 2024 Groundwater Treatment Plant Report
Longhorn Army Ammunition Plant

Sample ID				18CPTMW06_061224	18CPTMW07_060624	18CPTMW08DW_060524	18CPTMW08SW_060524	18CPTMW10SW_061424	18CPTMW10DW_061424	18CPTMW10DW_061424_a	18CPTMW12SW_061124	18CPTMW12DW_061124	18CPTMW14_061824
Aquifer Zone				Wilcox	Wilcox	Wilcox	Wilcox	Wilcox	Wilcox	Wilcox	Wilcox	Wilcox	Shallow
Well Identification				18CPTMW06	18CPTMW07	18CPTMW08DW	18CPTMW08SW	18CPTMW10SW	18CPTMW10DW	18CPTMW10DW	18CPTMW12SW	18CPTMW12DW	18CPTMW14
ANALYTE	CAS NUMBER	UNITS	MCL/MSC/PCL										
4-Isopropyltoluene	99-87-6	µg/L	10,000	0.75 U	0.50 U	NA	0.50 U	0.75 U	0.75 U	0.75 U	0.50 U	0.50 U	0.75 U
4-Methyl-2-pentanone	108-10-1	µg/L	8,200	3.8 U	0.50 U	NA	1.0 U	3.8 U	3.8 U	3.8 U	1.0 U	1.0 U	3.8 U
Acetone	67-64-1	µg/L	92,000	3.8 U	0.50 U	NA	1.0 U	3.8 U	3.8 U	3.8 U	0.50 U	0.50 U	3.8 U
Benzene	71-43-2	µg/L	5	0.75 U	0.50 U	NA	0.50 U	0.75 U	0.75 U	0.75 U	0.50 U	0.50 U	**0.72 J**
Bromobenzene	108-86-1	µg/L	2,000	0.75 U	0.50 U	NA	0.50 U	0.75 U	0.75 U	0.75 U	0.50 U	0.50 U	0.75 U
Bromochloromethane	74-97-5	µg/L	4,100	0.75 U	0.50 U	NA	0.50 U	0.75 U	0.75 U	0.75 U	0.50 U	0.50 U	0.75 U
Bromodichloromethane	75-27-4	µg/L	4.6	0.75 U	0.50 U	NA	0.50 U	0.75 U	0.75 U	0.75 U	0.50 U	0.50 U	0.75 U
Bromoform	75-25-2	µg/L	36	0.75 U	0.50 U	NA	0.50 U	0.75 U	0.75 U	0.75 U	0.50 U	0.50 U	0.75 U
Bromomethane	74-83-9	µg/L	140	0.75 U	0.50 U	NA	0.50 U	0.75 U	0.75 U	0.75 U	0.50 U	0.50 U	0.75 U
Carbon disulfide	75-15-0	µg/L	10,000	0.75 U	0.50 U	NA	1.0 U	0.75 U	0.75 U	0.75 U	2.0 U	2.0 U	0.75 U
Carbon tetrachloride	56-23-5	µg/L	5	0.75 U	0.50 U	NA	0.50 U	0.75 U	0.75 U	0.75 U	1.0 U	1.0 U	0.75 U
Chlorobenzene	108-90-7	µg/L	100	0.75 U	0.50 U	NA	0.50 U	0.75 U	0.75 U	0.75 U	0.50 U	0.50 U	0.75 U
Chloroethane	75-00-3	µg/L	41,000	0.75 U	0.50 U	NA	0.50 U	0.75 U	0.75 U	0.75 U	0.50 U	0.50 U	0.75 U
Chloroform	67-66-3	µg/L	1,000	0.75 U	0.50 U	NA	0.50 U	0.75 U	0.75 U	0.75 U	0.50 U	0.50 U	**24.8**
Chloromethane	74-87-3	µg/L	220	0.75 U	0.50 U	NA	0.50 U	**0.43 J**	**0.44 J**	**0.44 J**	0.50 U	0.50 U	0.75 U
cis-1,2-Dichloroethene	156-59-2	µg/L	70	**1.5**	0.50 U	NA	**8.9**	0.75 U	**1.4**	**1.3**	0.50 U	0.50 U	5.7
cis-1,3-Dichloropropene	10061-01-5	µg/L	5.3	0.75 U	0.50 U	NA	0.50 U	0.75 U	0.75 U	0.75 U	0.50 U	0.50 U	0.75 U
Dibromochloromethane	124-48-1	µg/L	34	0.75 U	0.50 U	NA	0.50 U	0.75 U	0.75 U	0.75 U	0.50 U	0.50 U	0.75 U
Dibromomethane	74-95-3	µg/L	380	0.75 U	0.50 U	NA	0.50 U	0.75 U	0.75 U	0.75 U	0.50 U	0.50 U	0.75 U
Dichlorodifluoromethane	75-71-8	µg/L	20,000	0.75 U	0.50 U	NA	0.50 U	0.75 U	0.75 U	0.75 U	0.50 U	0.50 U	0.75 U
Ethylbenzene	100-41-4	µg/L	700	0.75 U	0.50 U	NA	0.50 U	0.75 U	0.75 U	0.75 U	0.50 U	0.50 U	0.75 U
Hexachlorobutadiene	87-68-3	µg/L	20	3.8 U	0.50 U	NA	0.50 U	3.8 U	3.8 U	3.8 U	2.0 U	2.0 U	3.8 U
Isopropylbenzene	98-82-8	µg/L	10,000	0.75 U	0.50 U	NA	0.50 U	0.75 U	0.75 U	0.75 U	0.50 U	0.50 U	0.75 U
m,p-Xylene	179601-23-1	µg/L	10,000**	0.75 U	0.50 U	NA	1.0 U	1.5 U	1.5 U	1.5 U	1.0 U	1.0 U	1.5 U
Methylene chloride	75-09-2	µg/L	5	**1.1**	0.50 U	NA	0.50 U	0.75 U	0.75 U	0.75 U	1.0 U	1.0 U	0.75 U
Naphthalene	91-20-3	µg/L	2,000	0.75 U	0.50 U	NA	0.50 U	0.75 U	0.75 U	0.75 U	0.50 U	0.50 U	0.75 U
n-Butylbenzene	104-51-8	µg/L	4,100	0.75 U	0.50 U	NA	0.50 U	0.75 U	0.75 U	0.75 U	1.0 U	1.0 U	0.75 U
n-Propylbenzene	103-65-1	µg/L	4,100	0.75 U	0.50 U	NA	0.50 U	0.75 U	0.75 U	0.75 U	0.50 U	0.50 U	0.75 U
o-Xylene	95-47-6	µg/L	10,000**	0.75 U	0.50 U	NA	0.50 U	0.75 U	0.75 U	0.75 U	0.50 U	0.50 U	0.75 U
sec-Butylbenzene	135-98-8	µg/L	4,100	0.75 U	0.50 U	NA	0.50 U	0.75 U	0.75 U	0.75 U	0.50 U	0.50 U	0.75 U
Styrene	100-42-5	µg/L	100	0.75 U	0.50 U	NA	0.50 U	0.75 U	0.75 U	0.75 U	0.50 U	0.50 U	0.75 U
tert-Butylbenzene	98-06-6	µg/L	4,100	0.75 U	0.50 U	NA	0.50 U	0.75 U	0.75 U	0.75 U	0.50 U	0.50 U	0.75 U
Tetrachloroethene	127-18-4	µg/L	5	0.75 U	0.50 U	NA	0.50 U	0.75 U	0.75 U	0.75 U	0.50 U	0.50 U	**2.1**
Toluene	108-88-3	µg/L	1,000	0.75 U	0.50 U	NA	0.50 U	0.75 U	0.75 U	0.75 U	0.50 U	0.50 U	0.75 U
trans-1,2-Dichloroethene	156-60-5	µg/L	100	0.75 U	0.50 U	NA	0.50 U	0.75 U	0.75 U	0.75 U	0.50 U	0.50 U	0.75 U
trans-1,3-Dichloropropene	10061-02-6	µg/L	29	0.75 U	0.50 U	NA	0.50 U	0.75 U	0.75 U	0.75 U	0.50 U	0.50 U	0.75 U
Trichloroethene	79-01-6	µg/L	5	**5.2**	**1.6**	NA	**30**	**1.1**	**19.1**	**18.8**	**6.6**	**2.8**	**2,060**
Trichlorofluoromethane	75-69-4	µg/L	31,000	0.75 U	0.50 U	NA	0.50 U	0.75 U	0.75 U	0.75 U	0.50 U	0.50 U	0.75 U
Vinyl chloride	75-01-4	µg/L	2	0.75 U	0.50 U	NA	**0.74**	0.75 U	0.75 U	0.75 U	0.50 U	0.50 U	0.75 U
Method: SW8270SIM													
1,4-Dioxane	123-91-1	ug/L	9.1	0.020 U	0.020 U	**0.064**	**0.12**	0.020 UJ	NA	NA	0.020 U	**0.054**	**0.19**

Notes:

Blue highlighting indicates concentrations above the MCL/MSC/PCL

MCL/MSC - Maximum Contaminant Limit/Medium-Specific Concentrations/Protective Concentration Level.PCL - Texas Risk Reduction Program (TRRP) Tier 1 Groundwater Residential Protective Concentration Level

NA - Not Analyzed/Not Applicable; NV - No value

µg/L - micrograms per liter; mg/L - milligrams per liter

a - duplicate sample

J - Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.

UJ - The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

U - Undetected: The analyte was analyzed for, but not detected at the limit of detection presented.

UB - considered a non-detect due to blank contamination

*Perchlorate, manganese, and nickel compared to the PCL

** Value is for total xylenes

PCL - Texas Risk Reduction Program (TRRP) Tier 1 Groundwater Residential Protective Concentration Level

Table 6. LHAAP-18/24 Analytical Results -- June 2024
2nd Quarter 2024 Groundwater Treatment Plant Report
Longhorn Army Ammunition Plant

Sample ID				18CPTMW15_061324	18CPTMW16_061924	18CPTMW16_061924_a	18CPTMW18_061724	18CPTMW19_061124	18CPTMW19SW_061124	18CPTMW22DW_060524	18CPTMW22R_060524	18CPTMW22SW_061224	18CPTMW23_060724
Aquifer Zone			MCL/MSC/PCL	Shallow	Shallow	Shallow	Shallow	Shallow	Wilcox	Wilcox	Shallow	Wilcox	Shallow
Well Identification				18CPTMW15	18CPTMW16	18CPTMW16	18CPTMW18	18CPTMW19	18CPTMW19SW	18CPTMW22DW	18CPTMW22R	18CPTMW22SW	18CPTMW23
ANALYTE	CAS NUMBER	UNITS											
Method: 6850													
Perchlorate		µg/L	17*	**98.3**	0.500 U	0.500 U	0.0500 U	**2.69**	0.0500 U	**0.299 J**	**0.0809 J**	**9,820**	**424**
Method: SW6020A													
Aluminum	7429-90-5	mg/L	100	NA	NA	NA	**0.0169**	NA	**0.0285**	**0.0506**	**0.187**	**0.131**	NA
Antimony	7440-36-0	mg/L	0.006	NA	NA	NA	0.00125 U	NA	0.00125 U	**0.000702 J**	0.00125 U	0.00125 U	NA
Arsenic	7440-38-2	mg/L	0.01	NA	NA	NA	**0.000551 J**	NA	**0.0101**	**0.00483 J**	**0.000576 J**	**0.00111 J**	NA
Barium	7440-39-3	mg/L	2	NA	NA	NA	**0.474**	NA	**0.163**	**0.111**	**0.0249**	**0.252**	NA
Beryllium	7440-41-7	mg/L	0.004	NA	NA	NA	0.000500 U	NA	0.000500 U	0.000500 U	0.000500 U	0.000500 U	NA
Cadmium	7440-43-9	mg/L	0.005	NA	NA	NA	**0.000232 J**	NA	0.000500 U	**0.000446 J**	0.000500 U	0.000500 U	NA
Calcium	7440-70-2	mg/L	NV	NA	NA	NA	**216**	NA	**8.43**	**12.5**	**0.546**	**54.8**	NA
Chromium	7440-47-3	mg/L	0.1	NA	NA	NA	**0.00187 J**	NA	**0.00120 J**	**0.000921 J**	**0.000609 J**	**0.0668**	NA
Cobalt	7440-48-4	mg/L	6.1	NA	NA	NA	**0.00987**	NA	**0.00554**	**0.000286 J**	**0.00193 J**	**0.000118 J**	NA
Copper	7440-50-8	mg/L	1.3	NA	NA	NA	0.00200 U	NA	**0.00164 J**	0.00125 U	**0.00118 J**	0.00200 U	NA
Iron	7439-89-6	mg/L	NV	NA	NA	NA	**0.594**	NA	**13.4**	**3.37**	**0.241**	**0.0501 J**	NA
Lead	7439-92-1	mg/L	0.015	NA	NA	NA	0.00125 U	NA	0.00125 U	0.00125 U	0.00125 U	0.00125 U	NA
Magnesium	7439-95-4	mg/L	NV	NA	NA	NA	**132**	NA	**4.96**	**6.67**	**0.378**	**0.525**	NA
Manganese	7439-96-5	mg/L	1.1*	NA	NA	NA	**1.62**	NA	**0.397**	**0.0656**	**0.0212**	**0.0129**	NA
Nickel	7440-02-0	mg/L	0.49*	NA	NA	NA	**0.00987**	NA	**0.00236 J**	**0.00183 J**	**0.00140 J**	**0.00147 J**	NA
Potassium	7440-09-7	mg/L	NV	NA	NA	NA	**2.34**	NA	**1.13**	**2.67**	**0.123 J**	**322**	NA
Selenium	7782-49-2	mg/L	0.05	NA	NA	NA	0.00125 U	NA	0.00125 U	0.00125 U	0.00125 U	0.00125 U	NA
Silver	7440-22-4	mg/L	0.51	NA	NA	NA	0.000500 U	NA	0.000500 U	0.000500 U	0.000500 U	0.000500 U	NA
Sodium	7440-23-5	mg/L	NV	NA	NA	NA	**684**	NA	**23.0**	**307**	**15.9**	**335**	NA
Thallium	7440-28-0	mg/L	0.002	NA	NA	NA	0.000500 U	NA	0.000500 U	0.000500 U	0.000500 U	0.000500 U	NA
Vanadium	7440-62-2	mg/L	0.72	NA	NA	NA	0.00125 U	NA	0.00125 U	0.00125 U	0.00125 U	**0.00154 J**	NA
Zinc	7440-66-6	mg/L	31	NA	NA	NA	**0.0165**	NA	**0.0140**	**0.00667**	**0.0109**	**0.00864**	NA
Method: SW7470A													
Mercury	7439-97-6	mg/L	0.002	NA	NA	NA	0.000100 U	NA	0.000100 U	0.000100 U	0.000100 U	0.000100 U	NA
Method: SW8260													
1,1,1,2-Tetrachloroethane	630-20-6	µg/L	110	0.75 U	NA	NA	0.75 U	0.50 U	0.50 U	0.5 U	0.5 U	0.75 UJ	5.0 U
1,1,1-Trichloroethane	71-55-6	µg/L	200	0.75 U	NA	NA	0.75 U	0.50 U	0.50 U	0.5 U	0.5 U	0.75 UJ	5.0 U
1,1,2,2-Tetrachloroethane	79-34-5	µg/L	14	0.75 U	NA	NA	0.75 U	1.0 U	1.0 U	1.0 U	1.0 U	0.75 UJ	10 U
1,1,2-Trichloroethane	79-00-5	µg/L	5	0.75 U	NA	NA	0.75 U	0.50 U	0.50 U	0.5 U	0.5 U	0.75 UJ	5.0 U
1,1-Dichloroethane	75-34-3	µg/L	10,000	0.75 U	NA	NA	0.75 U	0.50 U	0.50 U	0.5 U	0.5 U	0.75 UJ	5.0 U
1,1-Dichloroethene	75-35-4	µg/L	7	0.75 U	NA	NA	0.75 U	1.0 U	1.0 U	0.5 U	0.5 U	0.75 UJ	**46**
1,1-Dichloropropene	563-58-6	µg/L	2.9	0.75 U	NA	NA	0.75 U	0.50 U	0.50 U	0.5 U	0.5 U	0.75 UJ	5.0 U
1,2,3-Trichlorobenzene	87-61-6	µg/L	310	0.75 U	NA	NA	0.75 U	1.0 U	1.0 U	0.5 U	0.5 U	0.75 UJ	5.0 U
1,2,3-Trichloropropane	96-18-4	µg/L	0.041	2.5 U	NA	NA	2.5 U	1.0 U	1.0 U	0.5 U	0.5 U	2.5 UJ	5.0 U
1,2,4-Trichlorobenzene	120-82-1	µg/L	70	0.75 U	NA	NA	0.75 U	1.0 U	1.0 U	0.5 U	0.5 U	0.75 UJ	5.0 U
1,2,4-Trimethylbenzene	95-63-6	µg/L	5,100	0.75 U	NA	NA	0.75 U	0.50 U	0.50 U	0.5 U	0.5 U	0.75 UJ	5.0 U
1,2-Dibromo-3-chloropropane	96-12-8	µg/L	0.2	2.5 U	NA	NA	2.5 U	0.50 U	0.50 U	0.5 U	0.5 U	2.5 UJ	5.0 U
1,2-Dibromoethane	106-93-4	µg/L	0.05	0.75 U	NA	NA	0.75 U	0.50 U	0.50 U	0.5 U	0.5 U	0.75 UJ	5.0 U
1,2-Dichlorobenzene	95-50-1	µg/L	600	0.75 U	NA	NA	0.75 U	1.0 U	1.0 U	0.5 U	0.5 U	0.75 UJ	5.0 U
1,2-Dichloroethane	107-06-2	µg/L	5	**0.44 J**	NA	NA	0.75 U	0.50 U	0.50 U	0.5 U	0.5 U	0.75 UJ	**1,200**
1,2-Dichloropropane	78-87-5	µg/L	5	0.75 U	NA	NA	0.75 U	0.50 U	0.50 U	0.5 U	0.5 U	0.75 UJ	5.0 U
1,3,5-Trimethylbenzene	108-67-8	µg/L	5,100	0.75 U	NA	NA	0.75 U	0.50 U	0.50 U	0.5 U	0.5 U	0.75 UJ	5.0 U
1,3-Dichlorobenzene	541-73-1	µg/L	3,100	0.75 U	NA	NA	0.75 U	0.50 U	0.50 U	0.5 U	0.5 U	0.75 UJ	5.0 U
1,3-Dichloropropane	142-28-9	µg/L	29	0.75 U	NA	NA	0.75 U	1.0 U	1.0 U	0.5 U	0.5 U	0.75 UJ	5.0 U
1,4-Dichlorobenzene	106-46-7	µg/L	75	0.75 U	NA	NA	0.75 U	0.50 U	0.50 U	0.5 U	0.5 U	0.75 UJ	5.0 U
2,2-Dichloropropane	594-20-7	µg/L	42	0.75 U	NA	NA	0.75 U	0.50 U	0.50 U	0.5 U	0.5 U	0.75 UJ	5.0 U
2-Butanone	78-93-3	µg/L	61,000	3.8 U	NA	NA	3.8 U	1.0 U	1.0 U	1.0 U	1.0 U	3.8 UJ	10 U
2-Chlorotoluene	95-49-8	µg/L	2,000	0.75 U	NA	NA	0.75 U	0.50 U	0.50 U	0.5 U	0.5 U	0.75 UJ	5.0 U
2-Hexanone	591-78-6	µg/L	6,100	3.8 U	NA	NA	3.8 U	2.0 U	2.0 U	1.0 U	1.0 U	3.8 UJ	10 U
4-Chlorotoluene	106-43-4	µg/L	2,000	0.75 U	NA	NA	0.75 U	0.50 U	0.50 U	0.5 U	0.5 U	0.75 UJ	5.0 U

Table 6. LHAAP-18/24 Analytical Results -- June 2024
2nd Quarter 2024 Groundwater Treatment Plant Report
Longhorn Army Ammunition Plant

Sample ID				18CPTMW15_061324	18CPTMW16_061924	18CPTMW16_061924_a	18CPTMW18_061724	18CPTMW19_061124	18CPTMW19SW_061124	18CPTMW22DW_060524	18CPTMW22R_060524	18CPTMW22SW_061224	18CPTMW23_060724
Aquifer Zone			MCL/MSC/PCL	Shallow	Shallow	Shallow	Shallow	Shallow	Wilcox	Wilcox	Shallow	Wilcox	Shallow
Well Identification				18CPTMW15	18CPTMW16	18CPTMW16	18CPTMW18	18CPTMW19	18CPTMW19SW	18CPTMW22DW	18CPTMW22R	18CPTMW22SW	18CPTMW23
ANALYTE	CAS NUMBER	UNITS											
4-Isopropyltoluene	99-87-6	µg/L	10,000	0.75 U	NA	NA	0.75 U	0.50 U	0.50 U	0.5 U	0.5 U	0.75 UJ	5.0 U
4-Methyl-2-pentanone	108-10-1	µg/L	8,200	3.8 U	NA	NA	3.8 U	1.0 U	1.0 U	0.5 U	0.5 U	3.8 UJ	5.0 U
Acetone	67-64-1	µg/L	92,000	3.8 U	NA	NA	3.8 U	0.50 U	0.50 U	0.5 U	0.5 U	**17.2 J**	5.0 U
Benzene	71-43-2	µg/L	5	0.75 U	NA	NA	0.75 U	0.50 U	0.50 U	0.5 U	0.5 U	0.75 UJ	**5.0 J**
Bromobenzene	108-86-1	µg/L	2,000	0.75 U	NA	NA	0.75 U	0.50 U	0.50 U	0.5 U	0.5 U	0.75 UJ	5.0 U
Bromochloromethane	74-97-5	µg/L	4,100	0.75 U	NA	NA	0.75 U	0.50 U	0.50 U	0.5 U	0.5 U	0.75 UJ	5.0 U
Bromodichloromethane	75-27-4	µg/L	4.6	0.75 U	NA	NA	0.75 U	0.50 U	0.50 U	0.5 U	0.5 U	0.75 UJ	5.0 U
Bromoform	75-25-2	µg/L	36	0.75 U	NA	NA	0.75 U	0.50 U	0.50 U	0.5 U	0.5 U	0.75 UJ	5.0 U
Bromomethane	74-83-9	µg/L	140	0.75 U	NA	NA	0.75 U	0.50 U	0.50 U	0.5 U	0.5 U	0.75 UJ	5.0 U
Carbon disulfide	75-15-0	µg/L	10,000	0.75 U	NA	NA	0.75 U	2.0 U	2.0 U	0.5 U	0.5 U	0.75 UJ	5.0 U
Carbon tetrachloride	56-23-5	µg/L	5	0.75 U	NA	NA	0.75 U	1.0 U	1.0 U	0.5 U	0.5 U	0.75 UJ	5.0 U
Chlorobenzene	108-90-7	µg/L	100	0.75 U	NA	NA	0.75 U	0.50 U	0.50 U	0.5 U	0.5 U	0.75 UJ	5.0 U
Chloroethane	75-00-3	µg/L	41,000	0.75 U	NA	NA	0.75 U	0.50 U	0.50 U	0.5 U	0.5 U	0.75 UJ	5.0 U
Chloroform	67-66-3	µg/L	1,000	0.75 U	NA	NA	0.75 U	0.50 U	0.50 U	0.5 U	0.5 U	0.75 UJ	**23**
Chloromethane	74-87-3	µg/L	220	0.75 U	NA	NA	0.75 U	0.50 U	0.50 U	0.5 U	0.5 U	0.75 UJ	5.0 U
cis-1,2-Dichloroethene	156-59-2	µg/L	70	**2.1 J+**	NA	NA	0.75 U	0.50 U	0.50 U	0.5 U	0.5 U	0.75 UJ	**1,600**
cis-1,3-Dichloropropene	10061-01-5	µg/L	5.3	0.75 U	NA	NA	0.75 U	0.50 U	0.50 U	0.5 U	0.5 U	0.75 UJ	5.0 U
Dibromochloromethane	124-48-1	µg/L	34	0.75 U	NA	NA	0.75 U	0.50 U	0.50 U	0.5 U	0.5 U	0.75 UJ	5.0 U
Dibromomethane	74-95-3	µg/L	380	0.75 U	NA	NA	0.75 U	0.50 U	0.50 U	0.5 U	0.5 U	0.75 UJ	5.0 U
Dichlorodifluoromethane	75-71-8	µg/L	20,000	0.75 U	NA	NA	0.75 U	0.50 U	0.50 U	0.5 U	0.5 U	0.75 UJ	5.0 U
Ethylbenzene	100-41-4	µg/L	700	0.75 U	NA	NA	0.75 U	0.50 U	0.50 U	0.5 U	0.5 U	0.75 UJ	5.0 U
Hexachlorobutadiene	87-68-3	µg/L	20	3.8 U	NA	NA	3.8 U	2.0 U	2.0 U	0.5 U	0.5 U	3.8 UJ	5.0 U
Isopropylbenzene	98-82-8	µg/L	10,000	0.75 U	NA	NA	0.75 U	0.50 U	0.50 U	0.5 U	0.5 U	0.75 UJ	5.0 U
m,p-Xylene	179601-23-1	µg/L	10,000**	1.5 U	NA	NA	1.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.5 UJ	10 U
Methylene chloride	75-09-2	µg/L	5	0.75 U	NA	NA	0.75 U	1.0 U	1.0 U	0.5 U	0.5 U	0.75 UJ	5.0 U
Naphthalene	91-20-3	µg/L	2,000	0.75 U	NA	NA	0.75 U	0.50 U	0.50 U	0.5 U	0.5 U	0.75 UJ	5.0 U
n-Butylbenzene	104-51-8	µg/L	4,100	0.75 U	NA	NA	0.75 U	1.0 U	1.0 U	0.5 U	0.5 U	0.75 UJ	5.0 U
n-Propylbenzene	103-65-1	µg/L	4,100	0.75 U	NA	NA	0.75 U	0.50 U	0.50 U	0.5 U	0.5 U	0.75 UJ	5.0 U
o-Xylene	95-47-6	µg/L	10,000**	0.75 U	NA	NA	0.75 U	0.50 U	0.50 U	0.5 U	0.5 U	0.75 UJ	5.0 U
sec-Butylbenzene	135-98-8	µg/L	4,100	0.75 U	NA	NA	0.75 U	0.50 U	0.50 U	0.5 U	0.5 U	0.75 UJ	5.0 U
Styrene	100-42-5	µg/L	100	0.75 U	NA	NA	0.75 U	0.50 U	0.50 U	0.5 U	0.5 U	0.75 UJ	5.0 U
tert-Butylbenzene	98-06-6	µg/L	4,100	0.75 U	NA	NA	0.75 U	0.50 U	0.50 U	0.5 U	0.5 U	0.75 UJ	5.0 U
Tetrachloroethene	127-18-4	µg/L	5	0.75 U	NA	NA	0.75 U	0.50 U	0.50 U	0.5 U	0.5 U	0.75 UJ	5.0 U
Toluene	108-88-3	µg/L	1,000	0.75 U	NA	NA	0.75 U	0.50 U	0.50 U	0.5 U	0.5 U	0.75 UJ	5.0 U
trans-1,2-Dichloroethene	156-60-5	µg/L	100	0.75 U	NA	NA	0.75 U	0.50 U	0.50 U	0.5 U	0.5 U	0.75 UJ	**21**
trans-1,3-Dichloropropene	10061-02-6	µg/L	29	0.75 U	NA	NA	0.75 U	0.50 U	0.50 U	0.5 U	0.5 U	**1.2 J**	5.0 U
Trichloroethene	79-01-6	µg/L	5	**18.9**	NA	NA	0.75 U	0.50 U	0.50 U	0.5 U	0.5 U	0.75 UJ	**1,200**
Trichlorofluoromethane	75-69-4	µg/L	31,000	0.75 U	NA	NA	0.75 U	0.50 U	0.50 U	0.5 U	0.5 U	0.75 UJ	5.0 U
Vinyl chloride	75-01-4	µg/L	2	**0.41 J**	NA	NA	0.75 U	0.50 U	0.50 U	0.5 U	0.5 U	0.75 UJ	**30**
Method: SW8270SIM													
1,4-Dioxane	123-91-1	ug/L	9.1	0.020 U	0.020 U	**0.024 J**	0.020 UJ	0.020 U	**0.079**	0.020 U	0.020 U	**0.049**	**1.3**

Notes:

Blue highlighting indicates concentrations above the MCL/MSC/PCL

MCL/MSC - Maximum Contaminant Limit/Medium-Specific Concentrations/Protective Concentration Level.PCL - Texas Risk Reduction Program (TRRP) Tier 1 Groundwater Residential Protective Concentration Level

NA - Not Analyzed/Not Applicable; NV - No value

µg/L - micrograms per liter; mg/L - milligrams per liter

a - duplicate sample

J - Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.

UJ - The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

U - Undetected: The analyte was analyzed for, but not detected at the limit of detection presented.

UB - considered a non-detect due to blank contamination

*Perchlorate, manganese, and nickel compared to the PCL

** Value is for total xylenes

PCL - Texas Risk Reduction Program (TRRP) Tier 1 Groundwater Residential Protective Concentration Level

Table 6. LHAAP-18/24 Analytical Results -- June 2024
2nd Quarter 2024 Groundwater Treatment Plant Report
Longhorn Army Ammunition Plant

Sample ID				18CPTMW23SW_060724	18CPTMW24_060624	18CPTMW26SW_061124	17WW08_061424	17WW08_061424_a	18WW02_060724	18WW03_061824	18WW06_060724	18WW08_061324	18WW09_061324
Aquifer Zone			MCL/MSC/PCL	Wilcox	Shallow	Wilcox	Shallow	Shallow	Wilcox	Wilcox	Wilcox	Shallow	Wilcox
Well Identification				18CPTMW23SW	18CPTMW24	18CPTMW26SW	17WW08	17WW08	18WW02	18WW03	18WW06	18WW08	18WW09
ANALYTE	CAS NUMBER	UNITS											
Method: 6850													
Perchlorate		µg/L	17*	**35.6**	**51.8**	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	**9.52**	0.0500 U
Method: SW6020A													
Aluminum	7429-90-5	mg/L	100	NA	NA	NA	**0.0163**	**0.0179**	**0.0344**	**0.0108**	NA	NA	**0.116**
Antimony	7440-36-0	mg/L	0.006	NA	NA	NA	0.00125 U	0.00125 U	0.00125 U	0.00125 U	NA	NA	0.00125 U
Arsenic	7440-38-2	mg/L	0.01	NA	NA	NA	**0.00664**	**0.00690**	**0.000404 J**	**0.000633 J**	NA	NA	**0.00401 J**
Barium	7440-39-3	mg/L	2	NA	NA	NA	**0.360**	**0.379**	**0.0400**	**0.205**	NA	NA	**0.258**
Beryllium	7440-41-7	mg/L	0.004	NA	NA	NA	0.000500 U	0.000500 U	0.000500 U	0.000500 U	NA	NA	0.000500 U
Cadmium	7440-43-9	mg/L	0.005	NA	NA	NA	0.000500 U	0.000500 U	0.000500 U	0.000500 U	NA	NA	**0.000315 J**
Calcium	7440-70-2	mg/L	NV	NA	NA	NA	**82.6**	**86.5**	**6.59**	**10.1**	NA	NA	**17.6**
Chromium	7440-47-3	mg/L	0.1	NA	NA	NA	**0.596**	**0.640**	**0.0128**	**0.00522**	NA	NA	**0.0131**
Cobalt	7440-48-4	mg/L	6.1	NA	NA	NA	**0.0199**	**0.0207**	**0.000144 J**	0.000500 U	NA	NA	**0.000594 J**
Copper	7440-50-8	mg/L	1.3	NA	NA	NA	**0.0221**	**0.0229**	**0.00133 J**	0.000500 U	NA	NA	**0.00134 J**
Iron	7439-89-6	mg/L	NV	NA	NA	NA	**29.9**	**31.8**	**0.619**	**7.81**	NA	NA	**38.9**
Lead	7439-92-1	mg/L	0.015	NA	NA	NA	0.00125 U	0.00125 U	0.00125 U	0.00125 U	NA	NA	0.00125 U
Magnesium	7439-95-4	mg/L	NV	NA	NA	NA	**50.5**	**52.8**	**1.13**	**6.74**	NA	NA	**9.87**
Manganese	7439-96-5	mg/L	1.1*	NA	NA	NA	**1.34**	**1.41**	**0.0813**	**0.108**	NA	NA	**0.777**
Nickel	7440-02-0	mg/L	0.49*	NA	NA	NA	**0.826**	**0.865**	**0.0121**	**0.00115 J**	NA	NA	**0.00860**
Potassium	7440-09-7	mg/L	NV	NA	NA	NA	**1.87**	**1.95**	**1.71**	**2.12**	NA	NA	**2.07**
Selenium	7782-49-2	mg/L	0.05	NA	NA	NA	0.00125 U	0.00125 U	0.00125 U	0.00125 U	NA	NA	0.00125 U
Silver	7440-22-4	mg/L	0.51	NA	NA	NA	0.000500 U	0.000500 U	0.000500 U	0.000500 U	NA	NA	0.000500 U
Sodium	7440-23-5	mg/L	NV	NA	NA	NA	**465**	**489**	**36.9**	**118**	NA	NA	**45.8**
Thallium	7440-28-0	mg/L	0.002	NA	NA	NA	0.000500 U	0.000500 U	0.000500 U	0.000500 U	NA	NA	0.000500 U
Vanadium	7440-62-2	mg/L	0.72	NA	NA	NA	**0.000889 J**	**0.000978 J**	0.00125 U	0.00125 U	NA	NA	**0.00181 J**
Zinc	7440-66-6	mg/L	31	NA	NA	NA	**0.0100**	**0.00963**	**0.00505**	**0.00451 J**	NA	NA	**0.00727**
Method: SW7470A													
Mercury	7439-97-6	mg/L	0.002	NA	NA	NA	0.000100 U	0.000100 U	0.000100 U	0.000100 U	NA	NA	0.000100 U
Method: SW8260													
1,1,1,2-Tetrachloroethane	630-20-6	µg/L	110	0.5 U	12 U	0.50 U	0.75 U	0.75 U	0.50 U	0.75 U	0.50 U	0.75 U	NA
1,1,1-Trichloroethane	71-55-6	µg/L	200	0.5 U	12 U	0.50 U	0.75 U	0.75 U	0.50 U	0.75 U	0.50 U	0.75 U	NA
1,1,2,2-Tetrachloroethane	79-34-5	µg/L	14	1.0 U	25 U	1.0 U	0.75 U	0.75 U	1.0 U	0.75 U	1.0 U	0.75 U	NA
1,1,2-Trichloroethane	79-00-5	µg/L	5	0.5 U	12 U	0.50 U	0.75 U	0.75 U	0.50 U	0.75 U	0.50 U	0.75 U	NA
1,1-Dichloroethane	75-34-3	µg/L	10,000	0.5 U	12 U	0.50 U	0.75 U	0.75 U	0.50 U	0.75 U	0.50 U	0.75 U	NA
1,1-Dichloroethene	75-35-4	µg/L	7	0.5 U	12 U	1.0 U	0.75 U	0.75 U	0.50 U	0.75 U	0.50 U	0.75 U	NA
1,1-Dichloropropene	563-58-6	µg/L	2.9	0.5 U	12 U	0.50 U	0.75 U	0.75 U	0.50 U	0.75 U	0.50 U	0.75 U	NA
1,2,3-Trichlorobenzene	87-61-6	µg/L	310	0.5 U	12 U	1.0 U	0.75 U	0.75 U	0.50 U	0.75 U	0.50 U	0.75 U	NA
1,2,3-Trichloropropane	96-18-4	µg/L	0.041	0.5 U	12 U	1.0 U	2.5 U	2.5 U	0.50 U	2.5 U	0.50 U	2.5 U	NA
1,2,4-Trichlorobenzene	120-82-1	µg/L	70	0.5 U	12 U	1.0 U	0.75 U	0.75 U	0.50 U	0.75 U	0.50 U	0.75 U	NA
1,2,4-Trimethylbenzene	95-63-6	µg/L	5,100	0.5 U	12 U	0.50 U	0.75 U	0.75 U	0.50 U	0.75 U	0.50 U	0.75 U	NA
1,2-Dibromo-3-chloropropane	96-12-8	µg/L	0.2	0.5 U	12 U	0.50 U	2.5 U	2.5 U	0.50 U	2.5 U	0.50 U	2.5 U	NA
1,2-Dibromoethane	106-93-4	µg/L	0.05	0.5 U	12 U	0.50 U	0.75 U	0.75 U	0.50 U	0.75 U	0.50 U	0.75 U	NA
1,2-Dichlorobenzene	95-50-1	µg/L	600	0.5 U	12 U	1.0 U	0.75 U	0.75 U	0.50 U	0.75 U	0.50 U	0.75 U	NA
1,2-Dichloroethane	107-06-2	µg/L	5	0.5 U	12 U	0.50 U	0.75 U	0.75 U	0.50 U	0.75 U	0.50 U	0.75 U	NA
1,2-Dichloropropane	78-87-5	µg/L	5	0.5 U	12 U	0.50 U	0.75 U	0.75 U	0.50 U	0.75 U	0.50 U	0.75 U	NA
1,3,5-Trimethylbenzene	108-67-8	µg/L	5,100	0.5 U	12 U	0.50 U	0.75 U	0.75 U	0.50 U	0.75 U	0.50 U	0.75 U	NA
1,3-Dichlorobenzene	541-73-1	µg/L	3,100	0.5 U	12 U	0.50 U	0.75 U	0.75 U	0.50 U	0.75 U	0.50 U	0.75 U	NA
1,3-Dichloropropane	142-28-9	µg/L	29	0.5 U	12 U	1.0 U	0.75 U	0.75 U	0.50 U	0.75 U	0.50 U	0.75 U	NA
1,4-Dichlorobenzene	106-46-7	µg/L	75	0.5 U	12 U	0.50 U	0.75 U	0.75 U	0.50 U	0.75 U	0.50 U	0.75 U	NA
2,2-Dichloropropane	594-20-7	µg/L	42	0.5 U	12 U	0.50 U	0.75 U	0.75 U	0.50 U	0.75 U	0.50 U	0.75 U	NA
2-Butanone	78-93-3	µg/L	61,000	1.0 U	25 U	1.0 U	3.8 U	3.8 U	1.0 U	3.8 U	1.0 U	3.8 U	NA
2-Chlorotoluene	95-49-8	µg/L	2,000	0.5 U	12 U	0.50 U	0.75 U	0.75 U	0.50 U	0.75 U	0.50 U	0.75 U	NA
2-Hexanone	591-78-6	µg/L	6,100	1.0 U	25 U	2.0 U	3.8 U	3.8 U	1.0 U	3.8 U	1.0 U	3.8 U	NA
4-Chlorotoluene	106-43-4	µg/L	2,000	0.5 U	12 U	0.50 U	0.75 U	0.75 U	0.50 U	0.75 U	0.50 U	0.75 U	NA

Table 6. LHAAP-18/24 Analytical Results -- June 2024
2nd Quarter 2024 Groundwater Treatment Plant Report
Longhorn Army Ammunition Plant

Sample ID				18CPTMW23SW_060724	18CPTMW24_060624	18CPTMW26SW_061124	17WW08_061424	17WW08_061424_a	18WW02_060724	18WW03_061824	18WW06_060724	18WW08_061324	18WW09_061324
Aquifer Zone				Wilcox	Shallow	Wilcox	Shallow	Shallow	Wilcox	Wilcox	Wilcox	Shallow	Wilcox
Well Identification				18CPTMW23SW	18CPTMW24	18CPTMW26SW	17WW08	17WW08	18WW02	18WW03	18WW06	18WW08	18WW09
ANALYTE	CAS NUMBER	UNITS	MCL/MSC/PCL										
4-Isopropyltoluene	99-87-6	µg/L	10,000	0.5 U	12 U	0.50 U	0.75 U	0.75 U	0.50 U	0.75 U	0.50 U	0.75 U	NA
4-Methyl-2-pentanone	108-10-1	µg/L	8,200	0.5 U	25 U	1.0 U	3.8 U	3.8 U	1.0 U	3.8 U	1.0 U	3.8 U	NA
Acetone	67-64-1	µg/L	92,000	0.5 U	25 U	0.50 U	3.8 U	3.8 U	1.0 U	3.8 U	1.0 U	3.8 U	NA
Benzene	71-43-2	µg/L	5	0.5 U	12 U	0.50 U	0.75 U	0.75 U	0.50 U	0.75 U	0.50 U	0.75 U	NA
Bromobenzene	108-86-1	µg/L	2,000	0.5 U	12 U	0.50 U	0.75 U	0.75 U	0.50 U	0.75 U	0.50 U	0.75 U	NA
Bromochloromethane	74-97-5	µg/L	4,100	0.5 U	12 U	0.50 U	0.75 U	0.75 U	0.50 U	0.75 U	0.50 U	0.75 U	NA
Bromodichloromethane	75-27-4	µg/L	4.6	0.5 U	12 U	0.50 U	0.75 U	0.75 U	0.50 U	0.75 U	0.50 U	0.75 U	NA
Bromoform	75-25-2	µg/L	36	0.5 U	12 U	0.50 U	0.75 U	0.75 U	0.50 U	0.75 U	0.50 U	0.75 U	NA
Bromomethane	74-83-9	µg/L	140	0.5 U	12 U	0.50 U	0.75 U	0.75 U	0.50 U	0.75 U	0.50 U	0.75 U	NA
Carbon disulfide	75-15-0	µg/L	10,000	0.5 U	25 U	2.0 U	0.75 U	0.75 U	1.0 U	0.75 U	1.0 U	0.75 U	NA
Carbon tetrachloride	56-23-5	µg/L	5	0.5 U	12 U	**12**	0.75 U	0.75 U	0.50 U	0.75 U	0.50 U	0.75 U	NA
Chlorobenzene	108-90-7	µg/L	100	0.5 U	12 U	0.50 U	0.75 U	0.75 U	0.50 U	0.75 U	0.50 U	0.75 U	NA
Chloroethane	75-00-3	µg/L	41,000	0.5 U	12 U	0.50 U	0.75 U	0.75 U	0.50 U	0.75 U	0.50 U	0.75 U	NA
Chloroform	67-66-3	µg/L	1,000	0.5 U	12 U	0.50 U	0.75 U	0.75 U	0.50 U	0.75 U	0.50 U	0.75 U	NA
Chloromethane	74-87-3	µg/L	220	0.5 U	12 U	0.50 U	0.75 U	0.75 U	0.50 U	0.75 U	0.50 U	0.75 U	NA
cis-1,2-Dichloroethene	156-59-2	µg/L	70	0.5 U	**34**	0.50 U	0.75 U	0.75 U	0.50 U	0.75 U	0.50 U	0.33 U	NA
cis-1,3-Dichloropropene	10061-01-5	µg/L	5.3	0.5 U	12 U	0.50 U	0.75 U	0.75 U	0.50 U	0.75 U	0.50 U	0.75 U	NA
Dibromochloromethane	124-48-1	µg/L	34	0.5 U	12 U	0.50 U	0.75 U	0.75 U	0.50 U	0.75 U	0.50 U	0.75 U	NA
Dibromomethane	74-95-3	µg/L	380	0.5 U	12 U	0.50 U	0.75 U	0.75 U	0.50 U	0.75 U	0.50 U	0.75 U	NA
Dichlorodifluoromethane	75-71-8	µg/L	20,000	0.5 U	12 U	0.50 U	0.75 U	0.75 U	0.50 U	0.75 U	0.50 U	0.75 U	NA
Ethylbenzene	100-41-4	µg/L	700	0.5 U	12 U	0.50 U	0.75 U	0.75 U	0.50 U	0.75 U	0.50 U	0.75 U	NA
Hexachlorobutadiene	87-68-3	µg/L	20	0.5 U	12 U	2.0 U	3.8 U	3.8 U	0.50 U	3.8 U	0.50 U	3.8 U	NA
Isopropylbenzene	98-82-8	µg/L	10,000	0.5 U	12 U	0.50 U	0.75 U	0.75 U	0.50 U	0.75 U	0.50 U	0.75 U	NA
m,p-Xylene	179601-23-1	µg/L	10,000**	0.5 U	25 U	1.0 U	1.5 U	1.5 U	1.0 U	1.5 U	1.0 U	1.5 U	NA
Methylene chloride	75-09-2	µg/L	5	0.5 U	12 U	1.0 U	0.75 U	0.75 U	0.50 U	0.75 U	0.50 U	0.75 U	NA
Naphthalene	91-20-3	µg/L	2,000	0.5 U	12 U	**2.2**	0.75 U	0.75 U	0.50 U	0.75 U	0.50 U	0.75 U	NA
n-Butylbenzene	104-51-8	µg/L	4,100	0.5 U	12 U	1.0 U	0.75 U	0.75 U	0.50 U	0.75 U	0.50 U	0.75 U	NA
n-Propylbenzene	103-65-1	µg/L	4,100	0.5 U	12 U	0.50 U	0.75 U	0.75 U	0.50 U	0.75 U	0.50 U	0.75 U	NA
o-Xylene	95-47-6	µg/L	10,000**	0.5 U	12 U	0.50 U	0.75 U	0.75 U	0.50 U	0.75 U	0.50 U	0.75 U	NA
sec-Butylbenzene	135-98-8	µg/L	4,100	0.5 U	12 U	0.50 U	0.75 U	0.75 U	0.50 U	0.75 U	0.50 U	0.75 U	NA
Styrene	100-42-5	µg/L	100	0.5 U	12 U	0.50 U	0.75 U	0.75 U	0.50 U	0.75 U	0.50 U	0.75 U	NA
tert-Butylbenzene	98-06-6	µg/L	4,100	0.5 U	12 U	0.50 U	0.75 U	0.75 U	0.50 U	0.75 U	0.50 U	0.75 U	NA
Tetrachloroethene	127-18-4	µg/L	5	0.5 U	12 U	0.50 U	0.75 U	0.75 U	0.50 U	0.75 U	0.50 U	0.75 U	NA
Toluene	108-88-3	µg/L	1,000	0.5 U	12 U	0.50 U	0.75 U	0.75 U	0.50 U	0.75 U	0.50 U	0.75 U	NA
trans-1,2-Dichloroethene	156-60-5	µg/L	100	0.5 U	12 U	0.50 U	0.75 U	0.75 U	0.50 U	0.75 U	0.50 U	0.75 U	NA
trans-1,3-Dichloropropene	10061-02-6	µg/L	29	0.5 U	12 U	0.50 U	0.75 U	0.75 U	0.50 U	0.75 U	0.50 U	0.75 U	NA
Trichloroethene	79-01-6	µg/L	5	0.5 U	**54**	0.50 U	0.75 U	**1.2**	0.50 U	0.75 U	**0.88 J**	1.0 U	NA
Trichlorofluoromethane	75-69-4	µg/L	31,000	0.5 U	12 U	0.50 U	0.75 U	0.75 U	0.50 U	0.75 U	0.50 U	0.75 U	NA
Vinyl chloride	75-01-4	µg/L	2	0.5 U	**89**	0.50 U	0.75 U	0.75 U	0.50 U	0.75 U	0.50 U	0.75 U	NA
Method: SW8270SIM													
1,4-Dioxane	123-91-1	ug/L	9.1	**0.084**	0.020 U	**0.035**	NA	NA	**0.051**	0.020 U	**0.083**	0.020 U	0.020 U

Notes:

Blue highlighting indicates concentrations above the MCL/MSC/PCL

MCL/MSC - Maximum Contaminant Limit/Medium-Specific Concentrations/Protective Concentration Level.PCL - Texas Risk Reduction Program (TRRP) Tier 1 Groundwater Residential Protective Concentration Level

NA - Not Analyzed/Not Applicable; NV - No value

µg/L - micrograms per liter; mg/L - milligrams per liter

a - duplicate sample

J - Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.

UJ - The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

U - Undetected: The analyte was analyzed for, but not detected at the limit of detection presented.

UB - considered a non-detect due to blank contamination

*Perchlorate, manganese, and nickel compared to the PCL

** Value is for total xylenes

PCL - Texas Risk Reduction Program (TRRP) Tier 1 Groundwater Residential Protective Concentration Level

Table 6. LHAAP-18/24 Analytical Results -- June 2024
2nd Quarter 2024 Groundwater Treatment Plant Report
Longhorn Army Ammunition Plant

Sample ID				18WW10_061424	18WW14_060614	18WW18_061724	18WW19_061924	18WW20_061924	18WW22_061324	18WW24_061824	18WW24_061824_a	18WW25_062123	C01_061024
Aquifer Zone			MCL/MSC/PCL	Shallow	Shallow	Wilcox	Wilcox	Shallow	Shallow	Shallow	Shallow	Shallow	Wilcox
Well Identification				18WW10	18WW14	18WW18	18WW19	18WW20	18WW22	18WW24	18WW24	18WW25	C-01
ANALYTE	CAS NUMBER	UNITS											
Method: 6850													
Perchlorate		µg/L	17*	0.0500 U	**0.808**	0.0500 U	0.500 U	0.500 U	**0.179**	0.0500 U	0.0500 U	0.500 U	**0.598 J**
Method: SW6020A													
Aluminum	7429-90-5	mg/L	100	NA	**0.0196**	**0.0199**	**0.0257**	**0.0111**	**0.0727**	**0.287**	**0.336**	**0.126**	NA
Antimony	7440-36-0	mg/L	0.006	NA	**0.00111 J**	0.00125 U	**0.000501 J**	0.00125 U	0.00125 U	0.00125 U	0.00125 U	0.00125 U	NA
Arsenic	7440-38-2	mg/L	0.01	NA	**0.000429**	**0.00599**	0.00125 U	0.00125 U	**0.000560 J**	**0.000649**	**0.000625**	**0.00264 J**	NA
Barium	7440-39-3	mg/L	2	NA	**0.316**	**1.27**	**0.109**	**0.0925**	**0.110**	**0.0314**	**0.0289**	**0.261**	NA
Beryllium	7440-41-7	mg/L	0.004	NA	0.000500 U	**0.000512 J**	0.000500 U	0.000500 U	0.000500 U	**0.000346 J**	**0.000287 J**	0.000500 U	NA
Cadmium	7440-43-9	mg/L	0.005	NA	**0.000269**	**0.000231 J**	0.000500 U	0.000500 U	0.000500 U	0.000500 U	0.000500 U	0.000500 U	NA
Calcium	7440-70-2	mg/L	NV	NA	**17.7**	**57.3**	**6.46**	**2.69**	**38.5**	**4.74**	**4.41**	**14.9**	NA
Chromium	7440-47-3	mg/L	0.1	NA	**0.116**	**0.0442**	**0.00736**	**0.00945**	**0.00989**	**0.000649 J**	**0.000813 J**	**0.000819 J**	NA
Cobalt	7440-48-4	mg/L	6.1	NA	**0.00194**	**0.000820 J**	**0.000196 J**	**0.00152 J**	**0.000163 J**	**0.00273 J**	**0.00259 J**	**0.00211 J**	NA
Copper	7440-50-8	mg/L	1.3	NA	**0.00589**	**0.00254 J**	0.00125 U	0.00125 U	0.00200 U	**0.00219 J**	**0.00245 J**	0.00125 U	NA
Iron	7439-89-6	mg/L	NV	NA	**1.17**	**108**	**7.08**	**7.78**	**0.0286 J**	**0.500**	**0.532**	**32.1**	NA
Lead	7439-92-1	mg/L	0.015	NA	0.00125 U	**0.000901 J**	0.00125 U	0.00125 U	0.00125 U	**0.000623 J**	**0.000623 J**	0.00125 U	NA
Magnesium	7439-95-4	mg/L	NV	NA	**14.2**	**34.9**	**3.22**	**1.65**	**2.76**	**2.41**	**2.22**	**8.88**	NA
Manganese	7439-96-5	mg/L	1.1*	NA	**0.129**	**2.37**	**0.0941**	**0.230**	**0.00389 J**	**0.228**	**0.210**	**2.07**	NA
Nickel	7440-02-0	mg/L	0.49*	NA	**0.137**	**0.0172**	**0.0123**	**0.00429 J**	**0.000650 J**	**0.0126**	**0.0115**	**0.00166 J**	NA
Potassium	7440-09-7	mg/L	NV	NA	**2.28**	**3.38**	**2.13**	**1.36**	**1.73**	**1.57**	**1.47**	**1.28**	NA
Selenium	7782-49-2	mg/L	0.05	NA	**0.00148 J**	0.00125 U	0.00125 U	0.00125 U	**0.00110 J**	0.00125 U	0.00125 U	0.00125 U	NA
Silver	7440-22-4	mg/L	0.51	NA	**0.000227 J**	0.000500 U	0.000500 U	0.000500 U	0.000500 U	0.000500 U	0.000500 U	0.000500 U	NA
Sodium	7440-23-5	mg/L	NV	NA	**69.5**	**150**	**25.9**	**26.6**	**19.7**	**52.5**	**48.0**	**32.3**	NA
Thallium	7440-28-0	mg/L	0.002	NA	0.000500 U	0.000500 U	0.000500 U	0.000500 U	0.000500 U	0.000500 U	0.000500 U	0.000500 U	NA
Vanadium	7440-62-2	mg/L	0.72	NA	0.00125 U	0.00125 U	0.00125 U	0.00125 U	**0.00649**	**0.000815 J**	**0.000869 J**	**0.000698 J**	NA
Zinc	7440-66-6	mg/L	31	NA	**0.0115**	**0.0106**	**0.00449 J**	**0.00776**	**0.0106**	**0.0225**	**0.0209**	**0.00810**	NA
Method: SW7470A													
Mercury	7439-97-6	mg/L	0.002	NA	0.000100 U	0.000100 U	0.000100 U	0.000100 U	0.000100 U	0.000100 U	0.000100 U	0.000100 U	NA
Method: SW8260													
1,1,1,2-Tetrachloroethane	630-20-6	µg/L	110	0.75 U	NA	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U
1,1,1-Trichloroethane	71-55-6	µg/L	200	0.75 U	NA	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U
1,1,2,2-Tetrachloroethane	79-34-5	µg/L	14	0.75 U	NA	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	1.0 U
1,1,2-Trichloroethane	79-00-5	µg/L	5	0.75 U	NA	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U
1,1-Dichloroethane	75-34-3	µg/L	10,000	0.75 U	NA	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U
1,1-Dichloroethene	75-35-4	µg/L	7	0.75 U	NA	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U
1,1-Dichloropropene	563-58-6	µg/L	2.9	0.75 U	NA	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U
1,2,3-Trichlorobenzene	87-61-6	µg/L	310	0.75 U	NA	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	1.0 U
1,2,3-Trichloropropane	96-18-4	µg/L	0.041	2.5 U	NA	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	1.0 U
1,2,4-Trichlorobenzene	120-82-1	µg/L	70	0.75 U	NA	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	1.0 U
1,2,4-Trimethylbenzene	95-63-6	µg/L	5,100	0.75 U	NA	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U
1,2-Dibromo-3-chloropropane	96-12-8	µg/L	0.2	2.5 U	NA	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	0.50 U
1,2-Dibromoethane	106-93-4	µg/L	0.05	0.75 U	NA	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U
1,2-Dichlorobenzene	95-50-1	µg/L	600	0.75 U	NA	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	1.0 U
1,2-Dichloroethane	107-06-2	µg/L	5	0.75 U	NA	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U
1,2-Dichloropropane	78-87-5	µg/L	5	0.75 U	NA	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	1.0 U
1,3,5-Trimethylbenzene	108-67-8	µg/L	5,100	0.75 U	NA	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U
1,3-Dichlorobenzene	541-73-1	µg/L	3,100	0.75 U	NA	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U
1,3-Dichloropropane	142-28-9	µg/L	29	0.75 U	NA	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U
1,4-Dichlorobenzene	106-46-7	µg/L	75	0.75 U	NA	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U
2,2-Dichloropropane	594-20-7	µg/L	42	0.75 U	NA	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U
2-Butanone	78-93-3	µg/L	61,000	3.8 U	NA	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	1.0 U
2-Chlorotoluene	95-49-8	µg/L	2,000	0.75 U	NA	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U
2-Hexanone	591-78-6	µg/L	6,100	3.8 U	NA	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	2.0 U
4-Chlorotoluene	106-43-4	µg/L	2,000	0.75 U	NA	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U

Table 6. LHAAP-18/24 Analytical Results -- June 2024
2nd Quarter 2024 Groundwater Treatment Plant Report
Longhorn Army Ammunition Plant

Sample ID				18WW10_061424	18WW14_060614	18WW18_061724	18WW19_061924	18WW20_061924	18WW22_061324	18WW24_061824	18WW24_061824_a	18WW25_062123	C01_061024
Aquifer Zone			MCL/MSC/PCL	Shallow	Shallow	Wilcox	Wilcox	Shallow	Shallow	Shallow	Shallow	Shallow	Wilcox
Well Identification				18WW10	18WW14	18WW18	18WW19	18WW20	18WW22	18WW24	18WW24	18WW25	C-01
ANALYTE	CAS NUMBER	UNITS											
4-Isopropyltoluene	99-87-6	µg/L	10,000	0.75 U	NA	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U
4-Methyl-2-pentanone	108-10-1	µg/L	8,200	3.8 U	NA	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	1.0 U
Acetone	67-64-1	µg/L	92,000	3.8 U	NA	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	0.50 U
Benzene	71-43-2	µg/L	5	0.75 U	NA	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U
Bromobenzene	108-86-1	µg/L	2,000	0.75 U	NA	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U
Bromochloromethane	74-97-5	µg/L	4,100	0.75 U	NA	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U
Bromodichloromethane	75-27-4	µg/L	4.6	0.75 U	NA	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U
Bromoform	75-25-2	µg/L	36	0.75 U	NA	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U
Bromomethane	74-83-9	µg/L	140	0.75 U	NA	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U
Carbon disulfide	75-15-0	µg/L	10,000	0.75 U	NA	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	2.0 U
Carbon tetrachloride	56-23-5	µg/L	5	0.75 U	NA	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	1.0 U
Chlorobenzene	108-90-7	µg/L	100	0.75 U	NA	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U
Chloroethane	75-00-3	µg/L	41,000	0.75 U	NA	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U
Chloroform	67-66-3	µg/L	1,000	0.75 U	NA	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U
Chloromethane	74-87-3	µg/L	220	0.75 U	NA	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U
cis-1,2-Dichloroethene	156-59-2	µg/L	70	0.75 U	NA	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U
cis-1,3-Dichloropropene	10061-01-5	µg/L	5.3	0.75 U	NA	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U
Dibromochloromethane	124-48-1	µg/L	34	0.75 U	NA	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U
Dibromomethane	74-95-3	µg/L	380	0.75 U	NA	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U
Dichlorodifluoromethane	75-71-8	µg/L	20,000	0.75 U	NA	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U
Ethylbenzene	100-41-4	µg/L	700	0.75 U	NA	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U
Hexachlorobutadiene	87-68-3	µg/L	20	3.8 U	NA	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	2.0 U
Isopropylbenzene	98-82-8	µg/L	10,000	0.75 U	NA	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U
m,p-Xylene	179601-23-1	µg/L	10,000**	1.5 U	NA	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.0 U
Methylene chloride	75-09-2	µg/L	5	0.75 U	NA	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	1.0 U
Naphthalene	91-20-3	µg/L	2,000	0.75 U	NA	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U
n-Butylbenzene	104-51-8	µg/L	4,100	0.75 U	NA	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	1.0 U
n-Propylbenzene	103-65-1	µg/L	4,100	0.75 U	NA	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U
o-Xylene	95-47-6	µg/L	10,000**	0.75 U	NA	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U
sec-Butylbenzene	135-98-8	µg/L	4,100	0.75 U	NA	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U
Styrene	100-42-5	µg/L	100	0.75 U	NA	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U
tert-Butylbenzene	98-06-6	µg/L	4,100	0.75 U	NA	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U
Tetrachloroethene	127-18-4	µg/L	5	0.75 U	NA	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U
Toluene	108-88-3	µg/L	1,000	0.75 U	NA	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U
trans-1,2-Dichloroethene	156-60-5	µg/L	100	0.75 U	NA	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U
trans-1,3-Dichloropropene	10061-02-6	µg/L	29	0.75 U	NA	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U
Trichloroethene	79-01-6	µg/L	5	**1.1**	NA	**0.93 J**	0.75 U	0.75 U	0.75 U	0.75 U	**0.65 J**	0.75 U	0.50 U
Trichlorofluoromethane	75-69-4	µg/L	31,000	0.75 U	NA	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U
Vinyl chloride	75-01-4	µg/L	2	0.75 U	NA	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U
Method: SW8270SIM													
1,4-Dioxane	123-91-1	ug/L	9.1	**0.013 J**	NA	0.020 UJ	NA	**0.21**	0.020 U	NA	NA	**0.017 J**	NA

Notes:

Blue highlighting indicates concentrations above the MCL/MSC/PCL

MCL/MSC - Maximum Contaminant Limit/Medium-Specific Concentrations/Protective Concentration Level.PCL - Texas Risk Reduction Program (TRRP) Tier 1 Groundwater Residential Protective Concentration Level

NA - Not Analyzed/Not Applicable; NV - No value

µg/L - micrograms per liter; mg/L - milligrams per liter

a - duplicate sample

J - Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.

UJ - The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

U - Undetected: The analyte was analyzed for, but not detected at the limit of detection presented.

UB - considered a non-detect due to blank contamination

*Perchlorate, manganese, and nickel compared to the PCL

** Value is for total xylenes

PCL - Texas Risk Reduction Program (TRRP) Tier 1 Groundwater Residential Protective Concentration Level

Table 6. LHAAP-18/24 Analytical Results -- June 2024
2nd Quarter 2024 Groundwater Treatment Plant Report
Longhorn Army Ammunition Plant

Sample ID				C02_061824	C03_061724	C04_061324	C06_061824	C08_061024	C09_061024	MW1_060724	MW1_060724-a	MW2_060624	MW3_061124
Aquifer Zone			MCL/MSC/PCL	Shallow	Wilcox	Wilcox	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow
Well Identification				C-02	C-03	C-04	C-06	C-08	C-09	MW-1	MW-1	MW-2	MW-3
ANALYTE	CAS NUMBER	UNITS											
Method: 6850													
Perchlorate		µg/L	17*	0.0500 U	**43.6**	0.0500 U	**0.118**	0.0500 U	**4.33**	**1,320**	**1,480**	**0.121 J**	**2,060**
Method: SW6020A													
Aluminum	7429-90-5	mg/L	100	NA	**0.00686 J**	NA	**0.0132**	NA	**0.0545**	**0.00850 J**	**0.00995 J**	NA	**0.00295 J**
Antimony	7440-36-0	mg/L	0.006	NA	0.00125 U	NA	0.00125 U	NA	0.00125 U	0.00125 U	0.00125 U	NA	0.00125 U
Arsenic	7440-38-2	mg/L	0.01	NA	**0.00117 J**	NA	**0.000633 J**	NA	0.00125 U	0.00125 U	0.00125 U	NA	0.00125 U
Barium	7440-39-3	mg/L	2	NA	**0.785**	NA	**0.641**	NA	**0.429**	**0.504**	**0.474**	NA	**0.199**
Beryllium	7440-41-7	mg/L	0.004	NA	0.000500 U	NA	0.000500 U	NA	0.000500 U	0.000500 U	0.000500 U	NA	0.000500 U
Cadmium	7440-43-9	mg/L	0.005	NA	**0.000577 J**	NA	0.000500 U	NA	0.000500 U	**0.000468 J**	**0.000450 J**	NA	0.000500 U
Calcium	7440-70-2	mg/L	NV	NA	**31.5**	NA	**23.7**	NA	**168**	**22.0**	**20.7**	NA	**16.2**
Chromium	7440-47-3	mg/L	0.1	NA	**0.000408 J**	NA	**0.000710 J**	NA	**0.00975**	**0.0778**	**0.0712**	NA	**0.00175 J**
Cobalt	7440-48-4	mg/L	6.1	NA	**0.000210 J**	NA	**0.00124 J**	NA	**0.000671 J**	**0.0104**	**0.00986**	NA	**0.000901 J**
Copper	7440-50-8	mg/L	1.3	NA	0.00200 U	NA	0.00200 U	NA	0.00200 U	**0.00554**	**0.00489 J**	NA	**0.00114 J**
Iron	7439-89-6	mg/L	NV	NA	**47.4**	NA	**32.1**	NA	**0.413**	**5.01**	**4.69**	NA	**0.222**
Lead	7439-92-1	mg/L	0.015	NA	0.00125 U	NA	0.00125 U	NA	0.00125 U	0.00125 U	0.00125 U	NA	0.00125 U
Magnesium	7439-95-4	mg/L	NV	NA	**17.0**	NA	**8.04**	NA	**76.8**	**19.4**	**18.3**	NA	**8.50**
Manganese	7439-96-5	mg/L	1.1*	NA	**0.893**	NA	**0.509**	NA	**0.0473**	**0.272**	**0.260**	NA	**0.203**
Nickel	7440-02-0	mg/L	0.49*	NA	**0.000692 J**	NA	**0.00204 J**	NA	**0.0183**	**1.46**	**1.38**	NA	**0.00457 J**
Potassium	7440-09-7	mg/L	NV	NA	**2.39**	NA	**2.62**	NA	**0.828**	**2.07**	**1.92**	NA	**1.12**
Selenium	7782-49-2	mg/L	0.05	NA	0.00125 U	NA	0.00125 U	NA	0.00125 U	0.00125 U	0.00125 U	NA	0.00125 U
Silver	7440-22-4	mg/L	0.51	NA	0.000500 U	NA	0.000500 U	NA	0.000500 U	0.000500 U	0.000500 U	NA	0.000500 U
Sodium	7440-23-5	mg/L	NV	NA	**106**	NA	**138**	NA	**327**	**198**	**182**	NA	**180**
Thallium	7440-28-0	mg/L	0.002	NA	0.000500 U	NA	0.000500 U	NA	0.000500 U	0.000500 U	0.000500 U	NA	0.000500
Vanadium	7440-62-2	mg/L	0.72	NA	0.00125 U	NA	0.00125 U	NA	**0.00150 J**	0.00125 U	0.00125 U	NA	**0.00112 J**
Zinc	7440-66-6	mg/L	31	NA	**0.00734**	NA	**0.0151**	NA	**0.00959**	**0.00515**	**0.00343 J**	NA	**0.00494 J**
Method: SW7470A													
Mercury	7439-97-6	mg/L	0.002	NA	0.000100 U	NA	0.000100 U	NA	0.000100 U	0.000100 U	0.000100 U	NA	0.000100 U
Method: SW8260													
1,1,1,2-Tetrachloroethane	630-20-6	µg/L	110	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U	50 U	50 U	120 U	0.50 U
1,1,1-Trichloroethane	71-55-6	µg/L	200	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U	50 U	50 U	120 U	0.50 U
1,1,2,2-Tetrachloroethane	79-34-5	µg/L	14	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	1.0 U	100 U	100 U	250 U	1.0 U
1,1,2-Trichloroethane	79-00-5	µg/L	5	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U	50 U	50 U	120 U	0.50 U
1,1-Dichloroethane	75-34-3	µg/L	10,000	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U	50 U	50 U	120 U	**1.00 J**
1,1-Dichloroethene	75-35-4	µg/L	7	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U	50 U	50 U	120 U	0.50 U
1,1-Dichloropropene	563-58-6	µg/L	2.9	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U	50 U	50 U	120 U	0.50 U
1,2,3-Trichlorobenzene	87-61-6	µg/L	310	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	**1.1**	50 U	50 U	120 U	1.0 U
1,2,3-Trichloropropane	96-18-4	µg/L	0.041	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	1.0 U	50 U	50 U	120 U	1.0 U
1,2,4-Trichlorobenzene	120-82-1	µg/L	70	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	1.0 U	50 U	50 U	120 U	1.0 U
1,2,4-Trimethylbenzene	95-63-6	µg/L	5,100	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U	50 U	50 U	120 U	0.50 U
1,2-Dibromo-3-chloropropane	96-12-8	µg/L	0.2	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	0.50 U	50 U	50 U	120 U	0.50 U
1,2-Dibromoethane	106-93-4	µg/L	0.05	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U	50 U	50 U	120 U	0.50 U
1,2-Dichlorobenzene	95-50-1	µg/L	600	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	1.0 U	50 U	50 U	120 U	1.0 U
1,2-Dichloroethane	107-06-2	µg/L	5	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U	**710**	**720**	120 U	0.50 U
1,2-Dichloropropane	78-87-5	µg/L	5	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	1.0 U	50 U	50 U	120 U	1.0 U
1,3,5-Trimethylbenzene	108-67-8	µg/L	5,100	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U	50 U	50 U	120 U	0.50 U
1,3-Dichlorobenzene	541-73-1	µg/L	3,100	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U	50 U	50 U	120 U	0.50 U
1,3-Dichloropropane	142-28-9	µg/L	29	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U	50 U	50 U	120 U	0.50 U
1,4-Dichlorobenzene	106-46-7	µg/L	75	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U	50 U	50 U	120 U	0.50 U
2,2-Dichloropropane	594-20-7	µg/L	42	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U	50 U	50 U	120 U	0.50 U
2-Butanone	78-93-3	µg/L	61,000	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	1.0 U	100 U	100 U	250 U	1.0 U
2-Chlorotoluene	95-49-8	µg/L	2,000	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U	50 U	50 U	120 U	0.50 U
2-Hexanone	591-78-6	µg/L	6,100	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	2.0 U	100 U	100 U	250 U	2.0 U
4-Chlorotoluene	106-43-4	µg/L	2,000	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U	50 U	50 U	120 U	0.50 U

Table 6. LHAAP-18/24 Analytical Results -- June 2024
2nd Quarter 2024 Groundwater Treatment Plant Report
Longhorn Army Ammunition Plant

Sample ID				C02_061824	C03_061724	C04_061324	C06_061824	C08_061024	C09_061024	MW1_060724	MW1_060724-a	MW2_060624	MW3_061124
Aquifer Zone				Shallow	Wilcox	Wilcox	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow
Well Identification				C-02	C-03	C-04	C-06	C-08	C-09	MW-1	MW-1	MW-2	MW-3
ANALYTE	CAS NUMBER	UNITS	MCL/MSC/PCL										
4-Isopropyltoluene	99-87-6	µg/L	10,000	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U	50 U	50 U	120 U	0.50 U
4-Methyl-2-pentanone	108-10-1	µg/L	8,200	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	1.0 U	50 U	50 U	250 U	1.0 U
Acetone	67-64-1	µg/L	92,000	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	0.50 U	50 U	50 U	250 U	0.50 U
Benzene	71-43-2	µg/L	5	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U	50 U	50 U	120 U	0.50 U
Bromobenzene	108-86-1	µg/L	2,000	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U	50 U	50 U	120 U	0.50 U
Bromochloromethane	74-97-5	µg/L	4,100	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U	50 U	50 U	120 U	0.50 U
Bromodichloromethane	75-27-4	µg/L	4.6	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U	50 U	50 U	120 U	0.50 U
Bromoform	75-25-2	µg/L	36	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U	50 U	50 U	120 U	0.50 U
Bromomethane	74-83-9	µg/L	140	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U	50 U	50 U	120 U	0.50 U
Carbon disulfide	75-15-0	µg/L	10,000	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	2.0 U	50 U	50 U	250 U	2.0 U
Carbon tetrachloride	56-23-5	µg/L	5	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	1.0 U	50 U	50 U	120 U	1.0 U
Chlorobenzene	108-90-7	µg/L	100	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U	50 U	50 U	120 U	0.50 U
Chloroethane	75-00-3	µg/L	41,000	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U	50 U	50 U	120 U	0.50 U
Chloroform	67-66-3	µg/L	1,000	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U	50 U	50 U	120 U	0.50 U
Chloromethane	74-87-3	µg/L	220	0.75 U	0.75 U	0.75 U	0.75 U	**0.34 J**	0.50 U	50 U	50 U	120 U	0.50 U
cis-1,2-Dichloroethene	156-59-2	µg/L	70	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U	**12,000**	**13,000**	**19,000**	**30**
cis-1,3-Dichloropropene	10061-01-5	µg/L	5.3	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U	50 U	50 U	120	0.50 U
Dibromochloromethane	124-48-1	µg/L	34	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U	50 U	50 U	120	0.50 U
Dibromomethane	74-95-3	µg/L	380	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U	50 U	50 U	120	0.50 U
Dichlorodifluoromethane	75-71-8	µg/L	20,000	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U	50 U	50 U	120	0.50 U
Ethylbenzene	100-41-4	µg/L	700	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U	50 U	50 U	120 U	0.50 U
Hexachlorobutadiene	87-68-3	µg/L	20	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	2.0 U	50 U	50 U	120 U	0.50 U
Isopropylbenzene	98-82-8	µg/L	10,000	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U	50 U	50 U	120 U	0.50 U
m,p-Xylene	179601-23-1	µg/L	10,000**	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.0 U	100 U	100 U	**460**	1.0 U
Methylene chloride	75-09-2	µg/L	5	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	1.0 U	**8,300**	**8,500**	120 U	1.0 U
Naphthalene	91-20-3	µg/L	2,000	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U	50 U	50 U	120 U	1.0 U
n-Butylbenzene	104-51-8	µg/L	4,100	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	1.0 U	50 U	50 U	120 U	0.50 U
n-Propylbenzene	103-65-1	µg/L	4,100	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U	50 U	50 U	120 U	0.50 U
o-Xylene	95-47-6	µg/L	10,000**	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U	50 U	50 U	**130**	0.50 U
sec-Butylbenzene	135-98-8	µg/L	4,100	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U	50 U	50 U	120 U	0.50 U
Styrene	100-42-5	µg/L	100	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U	50 U	50 U	120 U	0.50 U
tert-Butylbenzene	98-06-6	µg/L	4,100	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U	50 U	50 U	120 U	0.50 U
Tetrachloroethene	127-18-4	µg/L	5	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U	50 U	50 U	120 U	0.50 U
Toluene	108-88-3	µg/L	1,000	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U	50 U	50 U	**290**	0.50 U
trans-1,2-Dichloroethene	156-60-5	µg/L	100	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U	50 U	50 U	120 U	**0.54 J**
trans-1,3-Dichloropropene	10061-02-6	µg/L	29	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U	50 U	50 U	120 U	0.50 U
Trichloroethene	79-01-6	µg/L	5	0.75 U	0.75 U	0.75 U	**0.54 J**	**11.2**	**1.5**	50 U	50 U	**4,800**	**180**
Trichlorofluoromethane	75-69-4	µg/L	31,000	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U	50 U	50 U	120 U	0.50 U
Vinyl chloride	75-01-4	µg/L	2	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.50 U	50 U	50 U	120 U	0.50 U
Method: SW8270SIM													
1,4-Dioxane	123-91-1	ug/L	9.1	NA	0.020 UJ	NA	NA	**0.022 J**	NA	NA	NA	**0.47**	NA

Notes:

Blue highlighting indicates concentrations above the MCL/MSC/PCL

MCL/MSC - Maximum Contaminant Limit/Medium-Specific Concentrations/Protective Concentration Level.PCL - Texas Risk Reduction Program (TRRP) Tier 1 Groundwater Residential Protective Concentration Level

NA - Not Analyzed/Not Applicable; NV - No value

µg/L - micrograms per liter; mg/L - milligrams per liter

a - duplicate sample

J - Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.

UJ - The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

U - Undetected: The analyte was analyzed for, but not detected at the limit of detection presented.

UB - considered a non-detect due to blank contamination

*Perchlorate, manganese, and nickel compared to the PCL

** Value is for total xylenes

PCL - Texas Risk Reduction Program (TRRP) Tier 1 Groundwater Residential Protective Concentration Level

Table 6. LHAAP-18/24 Analytical Results -- June 2024
2nd Quarter 2024 Groundwater Treatment Plant Report
Longhorn Army Ammunition Plant

Sample ID				MW5_060524	MW6_061224	MW7_061124	MW8_060624	MW9_061424	MW10_061424	MW12_061324	MW13_061824	MW13_061824_a	MW14_061024
Aquifer Zone				Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Wilcox	Wilcox	Wilcox
Well Identification				MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	MW-12	MW-13	MW-13	MW-14
ANALYTE	CAS NUMBER	UNITS	MCL/MSC/PCL										
Method: 6850													
Perchlorate		µg/L	17*	**26,700**	**2,940**	**14,300**	**9,260**	**642**	0.0500 U	0.0500 U	0.0500 U	0.0500 U	**300,000**
Method: SW6020A													
Aluminum	7429-90-5	mg/L	100	NA	**0.00927 J**	NA	NA	**0.0194**	NA	NA	**0.0589**	**0.0604**	**0.102**
Antimony	7440-36-0	mg/L	0.006	NA	0.00125 U	NA	NA	0.00125 U	NA	NA	0.00125 U	0.00125 U	0.00125 U
Arsenic	7440-38-2	mg/L	0.01	NA	**0.000908 J**	NA	NA	0.00125 U	NA	NA	0.00125 U	0.00125 U	**0.00216 J**
Barium	7440-39-3	mg/L	2	NA	**0.468**	NA	NA	**0.0993**	NA	NA	**0.358**	**0.374**	**0.260**
Beryllium	7440-41-7	mg/L	0.004	NA	0.000500 U	NA	NA	0.000500 U	NA	NA	0.000500 U	0.000500 U	**0.00142 J**
Cadmium	7440-43-9	mg/L	0.005	NA	0.000500 U	NA	NA	**0.000254 J**	NA	NA	**0.000347 J**	**0.000411 J**	**0.00103 J**
Calcium	7440-70-2	mg/L	NV	NA	**19.1**	NA	NA	**11.9**	NA	NA	**20.3**	**21.4**	**133**
Chromium	7440-47-3	mg/L	0.1	NA	**0.0612**	NA	NA	**0.0384**	NA	NA	**0.466**	**0.493**	**0.0316**
Cobalt	7440-48-4	mg/L	6.1	NA	**0.00105 J**	NA	NA	**0.00763**	NA	NA	**0.00457 J**	**0.00493 J**	**0.0289**
Copper	7440-50-8	mg/L	1.3	NA	**0.00354 J**	NA	NA	**0.00225 J**	NA	NA	**0.0337**	**0.0360**	**0.00227 J**
Iron	7439-89-6	mg/L	NV	NA	**1.28**	NA	NA	**0.979**	NA	NA	**54.6**	**57.0**	**137**
Lead	7439-92-1	mg/L	0.015	NA	0.00125 U	NA	NA	0.00125 U	NA	NA	0.00125 U	0.00125 U	0.00125 U
Magnesium	7439-95-4	mg/L	NV	NA	**15.7**	NA	NA	**2.95**	NA	NA	**10.1**	**10.8**	**82.8**
Manganese	7439-96-5	mg/L	1.1*	NA	**0.0377**	NA	NA	**0.243**	NA	NA	**1.01**	**1.08**	**6.66**
Nickel	7440-02-0	mg/L	0.49*	NA	**0.0867**	NA	NA	**0.137**	NA	NA	**0.297**	**0.326**	**0.0762**
Potassium	7440-09-7	mg/L	NV	NA	**1.73**	NA	NA	**0.349**	NA	NA	**3.45**	**3.66**	**13.6**
Selenium	7782-49-2	mg/L	0.05	NA	0.00125 U	NA	NA	0.00125 U	NA	NA	0.00125 U	0.00125 U	0.00125 U
Silver	7440-22-4	mg/L	0.51	NA	0.000500 U	NA	NA	0.000500 U	NA	NA	0.000500 U	0.000500 U	0.000500 U
Sodium	7440-23-5	mg/L	NV	NA	**167**	NA	NA	**14.1**	NA	NA	**77.0**	**82.3**	**627**
Thallium	7440-28-0	mg/L	0.002	NA	0.000500 U	NA	NA	0.000500 U	NA	NA	0.000500 U	0.000500 U	0.000500 U
Vanadium	7440-62-2	mg/L	0.72	NA	**0.00136 J**	NA	NA	0.00125 U	NA	NA	**0.00116 J**	**0.00126 J**	0.00125 U
Zinc	7440-66-6	mg/L	31	NA	**0.0108**	NA	NA	**0.0195**	NA	NA	**0.0104**	**0.0116**	**0.384**
Method: SW7470A													
Mercury	7439-97-6	mg/L	0.002	NA	0.000100 U	NA	NA	0.000100 U	NA	NA	0.000100 U	0.000100 U	0.000100 U
Method: SW8260													
1,1,1,2-Tetrachloroethane	630-20-6	µg/L	110	0.50 U	0.75 U	0.50 U	0.50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	250 U
1,1,1-Trichloroethane	71-55-6	µg/L	200	0.50 U	0.75 U	0.50 U	0.50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	250 U
1,1,2,2-Tetrachloroethane	79-34-5	µg/L	14	1.0 U	0.75 U	1.0 U	1.0 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	500 U
1,1,2-Trichloroethane	79-00-5	µg/L	5	0.50 U	0.75 U	0.50 U	0.50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	250 U
1,1-Dichloroethane	75-34-3	µg/L	10,000	**3.3**	0.75 U	0.50 U	0.50 U	**1.4**	0.75 U	**2.8**	0.75 U	0.75 U	250 U
1,1-Dichloroethene	75-35-4	µg/L	7	0.50 U	**1.7**	0.50 U	0.50 U	**4.4**	0.75 U	**6.4**	0.75 U	0.75 U	250 U
1,1-Dichloropropene	563-58-6	µg/L	2.9	0.50 U	0.75 U	0.50 U	0.50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	250 U
1,2,3-Trichlorobenzene	87-61-6	µg/L	310	0.50 U	0.75 U	0.50 U	0.50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	500 U
1,2,3-Trichloropropane	96-18-4	µg/L	0.041	0.50 U	2.5 U	1.0 U	0.50 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	500 U
1,2,4-Trichlorobenzene	120-82-1	µg/L	70	0.50 U	0.75 U	1.0 U	0.50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	500 U
1,2,4-Trimethylbenzene	95-63-6	µg/L	5,100	0.50 U	0.75 U	0.50 U	0.50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	250 U
1,2-Dibromo-3-chloropropane	96-12-8	µg/L	0.2	0.50 U	2.5 U	0.50 U	0.50 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	250 U
1,2-Dibromoethane	106-93-4	µg/L	0.05	0.50 U	0.75 U	0.50 U	0.50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	250 U
1,2-Dichlorobenzene	95-50-1	µg/L	600	0.50 U	0.75 U	1.0 U	0.50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	500 U
1,2-Dichloroethane	107-06-2	µg/L	5	0.50 U	0.75 U	**1.5**	0.50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	250 U
1,2-Dichloropropane	78-87-5	µg/L	5	0.50 U	0.75 U	1.0 U	0.50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	500 U
1,3,5-Trimethylbenzene	108-67-8	µg/L	5,100	0.50 U	0.75 U	0.50 U	0.50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	250 U
1,3-Dichlorobenzene	541-73-1	µg/L	3,100	0.50 U	**0.68 J**	0.50 U	0.50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	250 U
1,3-Dichloropropane	142-28-9	µg/L	29	0.50 U	0.75 U	0.50 U	0.50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	250 U
1,4-Dichlorobenzene	106-46-7	µg/L	75	0.50 U	0.75 U	0.50 U	0.50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	250 U
2,2-Dichloropropane	594-20-7	µg/L	42	0.50 U	0.75 U	0.50 U	0.50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	250 U
2-Butanone	78-93-3	µg/L	61,000	1.0 U	3.8 U	1.0 U	1.0 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	500 U
2-Chlorotoluene	95-49-8	µg/L	2,000	0.50 U	0.75 U	0.50 U	0.50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	250 U
2-Hexanone	591-78-6	µg/L	6,100	1.0 U	3.8 U	2.0 U	1.0 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	1000 U
4-Chlorotoluene	106-43-4	µg/L	2,000	0.50 U	0.75 U	0.50 U	0.50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	250 U

Table 6. LHAAP-18/24 Analytical Results -- June 2024
2nd Quarter 2024 Groundwater Treatment Plant Report
Longhorn Army Ammunition Plant

Sample ID				MW5_060524	MW6_061224	MW7_061124	MW8_060624	MW9_061424	MW10_061424	MW12_061324	MW13_061824	MW13_061824_a	MW14_061024
Aquifer Zone				Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Wilcox	Wilcox	Wilcox
Well Identification				MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	MW-12	MW-13	MW-13	MW-14
ANALYTE	CAS NUMBER	UNITS	MCL/MSC/PCL										
4-Isopropyltoluene	99-87-6	µg/L	10,000	0.50 U	0.75 U	0.50 U	0.50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	250 U
4-Methyl-2-pentanone	108-10-1	µg/L	8,200	1.0 U	3.8 U	1.0 U	1.0 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	500 U
Acetone	67-64-1	µg/L	92,000	1.0 U	3.8 U	0.50 U	1.0 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	250 U
Benzene	71-43-2	µg/L	5	0.50 U	0.75 U	0.50 U	0.50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	250 U
Bromobenzene	108-86-1	µg/L	2,000	0.50 U	0.75 U	0.50 U	0.50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	250 U
Bromochloromethane	74-97-5	µg/L	4,100	0.50 U	0.75 U	0.50 U	0.50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	250 U
Bromodichloromethane	75-27-4	µg/L	4.6	0.50 U	0.75 U	0.50 U	0.50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	250 U
Bromoform	75-25-2	µg/L	36	0.50 U	0.75 U	0.50 U	0.50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	250 U
Bromomethane	74-83-9	µg/L	140	0.50 U	0.75 U	0.50 U	0.50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	250 U
Carbon disulfide	75-15-0	µg/L	10,000	1.0 U	0.75 U	2.0 U	1.0 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	1000 U
Carbon tetrachloride	56-23-5	µg/L	5	0.50 U	0.75 U	1.0 U	0.50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	500 U
Chlorobenzene	108-90-7	µg/L	100	0.50 U	0.75 U	0.50 U	0.50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	250 U
Chloroethane	75-00-3	µg/L	41,000	0.50 U	0.75 U	0.50 U	0.50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	250 U
Chloroform	67-66-3	µg/L	1,000	0.50 U	0.75 U	**0.55 J**	0.50 U	**1.5**	0.75 U	0.75 U	0.75 U	0.75 U	250 U
Chloromethane	74-87-3	µg/L	220	0.50 U	0.75 U	0.50 U	0.50 U	**0.35 J**	0.75 U	0.75 U	0.75 U	0.75 U	250 U
cis-1,2-Dichloroethene	156-59-2	µg/L	70	**12**	**5.9**	**1.7**	**20**	**63.8**	**0.34 J**	**56.9 J**	0.75 U	0.75 U	**2,800**
cis-1,3-Dichloropropene	10061-01-5	µg/L	5.3	0.50 U	0.75 U	0.50 U	0.50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	250 U
Dibromochloromethane	124-48-1	µg/L	34	0.50 U	0.75 U	0.50 U	0.50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	250 U
Dibromomethane	74-95-3	µg/L	380	0.50 U	0.75 U	0.50 U	0.50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	250 U
Dichlorodifluoromethane	75-71-8	µg/L	20,000	0.50 U	0.75 U	0.50 U	0.50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	250 U
Ethylbenzene	100-41-4	µg/L	700	0.50 U	0.75 U	0.50 U	0.50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	250 U
Hexachlorobutadiene	87-68-3	µg/L	20	2.0 U	3.8 U	0.50 U	0.50 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	1000 U
Isopropylbenzene	98-82-8	µg/L	10,000	0.50 U	0.75 U	0.50 U	0.50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	250 U
m,p-Xylene	179601-23-1	µg/L	10,000**	1.0 U	1.5 U	1.0 U	1.0 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	500 U
Methylene chloride	75-09-2	µg/L	5	0.50 U	0.75 U	1.0 U	0.50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	500 U
Naphthalene	91-20-3	µg/L	2,000	0.50 U	0.75 U	1.0 U	0.50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	500 U
n-Butylbenzene	104-51-8	µg/L	4,100	0.50 U	0.75 U	0.50 U	0.50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	250 U
n-Propylbenzene	103-65-1	µg/L	4,100	0.50 U	0.75 U	0.50 U	0.50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	250 U
o-Xylene	95-47-6	µg/L	10,000**	0.50 U	0.75 U	0.50 U	0.50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	250 U
sec-Butylbenzene	135-98-8	µg/L	4,100	0.50 U	0.75 U	0.50 U	0.50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	250 U
Styrene	100-42-5	µg/L	100	0.50 U	0.75 U	0.50 U	0.50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	250 U
tert-Butylbenzene	98-06-6	µg/L	4,100	0.50 U	0.75 U	0.50 U	0.50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	250 U
Tetrachloroethene	127-18-4	µg/L	5	0.50 U	0.75 U	0.50 U	0.50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	250 U
Toluene	108-88-3	µg/L	1,000	0.50 U	0.75 U	0.50 U	0.50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	250 U
trans-1,2-Dichloroethene	156-60-5	µg/L	100	0.50 U	0.75 U	0.50 U	0.50 U	**0.57 J**	0.75 U	**0.79 J**	0.75 U	0.75 U	250 U
trans-1,3-Dichloropropene	10061-02-6	µg/L	29	0.50 U	0.75 U	0.50 U	0.50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	250 U
Trichloroethene	79-01-6	µg/L	5	**44**	**14.3**	**970**	**610**	**1,470**	**4.5**	**421**	0.75 U	0.75 U	**18,000**
Trichlorofluoromethane	75-69-4	µg/L	31,000	0.50 U	0.75 U	0.50 U	0.50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	250 U
Vinyl chloride	75-01-4	µg/L	2	**3.7**	**1.1**	0.50 U	0.50 U	0.75 U	0.75 U	**0.97 J**	0.75 U	0.75 U	250 U
Method: SW8270SIM													
1,4-Dioxane	123-91-1	ug/L	9.1	**0.14**	NA	**2.8**	**0.45**	**0.19 J**	**0.011 J**	NA	NA	NA	**280**

Notes:

Blue highlighting indicates concentrations above the MCL/MSC/PCL

MCL/MSC - Maximum Contaminant Limit/Medium-Specific Concentrations/Protective Concentration Level.PCL - Texas Risk Reduction Program (TRRP) Tier 1 Groundwater Residential Protective Concentration Level

NA - Not Analyzed/Not Applicable; NV - No value

µg/L - micrograms per liter; mg/L - milligrams per liter

a - duplicate sample

J - Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.

UJ - The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

U - Undetected: The analyte was analyzed for, but not detected at the limit of detection presented.

UB - considered a non-detect due to blank contamination

*Perchlorate, manganese, and nickel compared to the PCL

** Value is for total xylenes

PCL - Texas Risk Reduction Program (TRRP) Tier 1 Groundwater Residential Protective Concentration Level

Table 6. LHAAP-18/24 Analytical Results -- June 2024
2nd Quarter 2024 Groundwater Treatment Plant Report
Longhorn Army Ammunition Plant

Sample ID				MW16_061424	MW17_061424	MW18_061724	MW19_061724	MW20_061224	MW21_061224	MW22_061224	MW22_061224_a	MW23_061024	102_060624
Aquifer Zone			MCL/MSC/PCL	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow
Well Identification				MW-16	MW-17	MW-18	MW-19	MW-20	MW-21	MW-22	MW-22	MW-23	MW-102
ANALYTE	CAS NUMBER	UNITS											
Method: 6850													
Perchlorate		µg/L	17*	**674**	0.0500 U	0.500 U	0.500 U	**0.826**	**1,610**	**2,770**	**3,870**	**79,200**	**29.6**
Method: SW6020A													
Aluminum	7429-90-5	mg/L	100	NA	NA	NA	**0.129**	**0.0366**	**0.0127**	**0.0149**	**0.0144**	NA	**0.481 J**
Antimony	7440-36-0	mg/L	0.006	NA	NA	NA	0.00125 U	0.00125 U	0.00125 U	**0.000666 J**	**0.000634 J**	NA	0.00125 U
Arsenic	7440-38-2	mg/L	0.01	NA	NA	NA	**0.00164 J**	0.00125 U	0.00125 U	**0.000820 J**	**0.000805 J**	NA	0.00125 U
Barium	7440-39-3	mg/L	2	NA	NA	NA	**0.201**	**0.443**	**3.39**	**0.605**	**0.586**	NA	**0.0848**
Beryllium	7440-41-7	mg/L	0.004	NA	NA	NA	0.000500 U	0.000500 U	0.000500 U	0.000500 U	0.000500 U	NA	**0.000423 J**
Cadmium	7440-43-9	mg/L	0.005	NA	NA	NA	**0.000561**	**0.000286 J**	**0.000362 J**	0.000500 U	0.000500 U	NA	**0.000503 J**
Calcium	7440-70-2	mg/L	NV	NA	NA	NA	**140**	**56.6**	**95.1**	**50.6**	**49.9**	NA	**2.29**
Chromium	7440-47-3	mg/L	0.1	NA	NA	NA	**0.242**	**0.00326 J**	**0.178**	**0.356**	**0.386**	NA	**0.000842 J**
Cobalt	7440-48-4	mg/L	6.1	NA	NA	NA	**0.00624**	**0.00650**	**0.0304**	**0.00402 J**	**0.00402 J**	NA	**0.00176 J**
Copper	7440-50-8	mg/L	1.3	NA	NA	NA	**0.00557**	**0.00222 J**	**0.0169**	**0.0122**	**0.0140**	NA	**0.00287 J**
Iron	7439-89-6	mg/L	NV	NA	NA	NA	**103**	**0.272**	**5.28**	**6.01**	**6.64**	NA	**0.411 J**
Lead	7439-92-1	mg/L	0.015	NA	NA	NA	0.00125 U	0.00125 U	0.00125 U	0.00125 U	0.00125 U	NA	**0.000720 J**
Magnesium	7439-95-4	mg/L	NV	NA	NA	NA	**76.2**	**11.3**	**71.2**	**20.4**	**20.1**	NA	**1.48**
Manganese	7439-96-5	mg/L	1.1*	NA	NA	NA	**2.55**	**0.139**	**0.870**	**0.0628**	**0.0604**	NA	**0.0160**
Nickel	7440-02-0	mg/L	0.49*	NA	NA	NA	**0.222**	**0.293**	**0.665**	**0.431**	**0.430**	NA	**0.00524**
Potassium	7440-09-7	mg/L	NV	NA	NA	NA	**4.44**	**0.511**	**1.54**	**1.79**	**1.79**	NA	**0.332**
Selenium	7782-49-2	mg/L	0.05	NA	NA	NA	0.00125 U	0.00125 U	0.00125 U	0.00125 U	0.00125 U	NA	0.00125 U
Silver	7440-22-4	mg/L	0.51	NA	NA	NA	0.000500 U	0.000500 U	0.000500 U	0.000500 U	0.000500 U	NA	0.000500 U
Sodium	7440-23-5	mg/L	NV	NA	NA	NA	**1,250**	**30.3**	**373**	**412**	**362**	NA	**13.8**
Thallium	7440-28-0	mg/L	0.002	NA	NA	NA	0.000500 U	0.000500 U	0.000500 U	0.000500 U	0.000500 U	NA	0.000500 U
Vanadium	7440-62-2	mg/L	0.72	NA	NA	NA	**0.000739 J**	**0.000615 J**	**0.00108 J**	**0.00204 J**	**0.00224 J**	NA	**0.00191 J**
Zinc	7440-66-6	mg/L	31	NA	NA	NA	**0.0141**	**0.00951**	**0.0157**	**0.00471 J**	**0.00470 J**	NA	**0.0170**
Method: SW7470A													
Mercury	7439-97-6	mg/L	0.002	NA	NA	NA	0.000100 U	0.000100 U	0.000100 U	0.000100 U	0.000100 U	NA	0.000100 U
Method: SW8260													
1,1,1,2-Tetrachloroethane	630-20-6	µg/L	110	0.75 U	NA	0.75 U	0.75 U	0.75 UJ	0.75 U	0.75 U	0.75 U	50 U	0.50 U
1,1,1-Trichloroethane	71-55-6	µg/L	200	0.75 U	NA	0.75 U	0.75 U	0.75 UJ	0.75 U	0.75 U	0.75 U	50 U	0.50 U
1,1,2,2-Tetrachloroethane	79-34-5	µg/L	14	0.75 U	NA	0.75 U	0.75 U	0.75 UJ	0.75 U	0.75 U	0.75 U	100 U	1.0 U
1,1,2-Trichloroethane	79-00-5	µg/L	5	0.75 U	NA	0.75 U	0.75 U	0.75 UJ	**17.2**	0.75 U	0.75 U	50 U	0.50 U
1,1-Dichloroethane	75-34-3	µg/L	10,000	**2.2**	NA	0.75 U	0.75 U	0.75 UJ	0.75 U	0.75 U	0.75 U	50 U	0.50 U
1,1-Dichloroethene	75-35-4	µg/L	7	**12.7**	NA	0.75 U	0.75 U	0.75 UJ	0.75 U	0.75 U	0.75 U	50 U	0.50 U
1,1-Dichloropropene	563-58-6	µg/L	2.9	0.75 U	NA	0.75 U	0.75 U	0.75 UJ	0.75 U	0.75 U	0.75 U	50 U	0.50 U
1,2,3-Trichlorobenzene	87-61-6	µg/L	310	0.75 U	NA	0.75 U	0.75 U	0.75 UJ	0.75 U	0.75 U	0.75 U	100 U	0.50 U
1,2,3-Trichloropropane	96-18-4	µg/L	0.041	2.5 U	NA	2.5 U	2.5 U	2.5 UJ	2.5 U	2.5 U	2.5 U	100 U	0.50 U
1,2,4-Trichlorobenzene	120-82-1	µg/L	70	0.75 U	NA	0.75 U	0.75 U	0.75 UJ	0.75 U	0.75 U	0.75 U	100 U	0.50 U
1,2,4-Trimethylbenzene	95-63-6	µg/L	5,100	0.75 U	NA	0.75 U	0.75 U	0.75 UJ	0.75 U	0.75 U	0.75 U	50 U	0.50 U
1,2-Dibromo-3-chloropropane	96-12-8	µg/L	0.2	2.5 U	NA	2.5 U	2.5 U	2.5 UJ	2.5 U	2.5 U	2.5 U	50 U	0.50 U
1,2-Dibromoethane	106-93-4	µg/L	0.05	0.75 U	NA	0.75 U	0.75 U	0.75 UJ	0.75 U	0.75 U	0.75 U	50 U	0.50 U
1,2-Dichlorobenzene	95-50-1	µg/L	600	0.75 U	NA	0.75 U	0.75 U	0.75 UJ	0.75 U	0.75 U	0.75 U	100 U	0.50 U
1,2-Dichloroethane	107-06-2	µg/L	5	**78.0**	NA	0.75 U	**0.48 J**	0.75 UJ	0.75 U	**7.0**	**6.9**	50 U	0.50 U
1,2-Dichloropropane	78-87-5	µg/L	5	0.75 U	NA	0.75 U	0.75 U	0.75 UJ	0.75 U	0.75 U	0.75 U	100 U	0.50 U
1,3,5-Trimethylbenzene	108-67-8	µg/L	5,100	0.75 U	NA	0.75 U	0.75 U	0.75 UJ	0.75 U	0.75 U	0.75 U	50 U	0.50 U
1,3-Dichlorobenzene	541-73-1	µg/L	3,100	0.75 U	NA	0.75 U	0.75 U	0.75 UJ	0.75 U	0.75 U	0.75 U	50 U	0.50 U
1,3-Dichloropropane	142-28-9	µg/L	29	0.75 U	NA	0.75 U	0.75 U	0.75 UJ	0.75 U	0.75 U	0.75 U	50 U	0.50 U
1,4-Dichlorobenzene	106-46-7	µg/L	75	0.75 U	NA	0.75 U	0.75 U	0.75 UJ	0.75 U	0.75 U	0.75 U	50 U	0.50 U
2,2-Dichloropropane	594-20-7	µg/L	42	0.75 U	NA	0.75 U	0.75 U	0.75 UJ	0.75 U	0.75 U	0.75 U	50 U	0.50 U
2-Butanone	78-93-3	µg/L	61,000	3.8 U	NA	3.8 U	3.8 U	3.8 UJ	3.8 U	3.8 U	3.8 U	100 U	1.0 U
2-Chlorotoluene	95-49-8	µg/L	2,000	0.75 U	NA	0.75 U	0.75 U	0.75 UJ	0.75 U	0.75 U	0.75 U	50 U	0.50 U
2-Hexanone	591-78-6	µg/L	6,100	3.8 U	NA	3.8 U	3.8 U	3.8 UJ	3.8 U	3.8 U	3.8 U	200 U	1.0 U
4-Chlorotoluene	106-43-4	µg/L	2,000	0.75 U	NA	0.75 U	0.75 U	0.75 UJ	0.75 U	0.75 U	0.75 U	50 U	0.50 U

Table 6. LHAAP-18/24 Analytical Results -- June 2024
2nd Quarter 2024 Groundwater Treatment Plant Report
Longhorn Army Ammunition Plant

Sample ID				MW16_061424	MW17_061424	MW18_061724	MW19_061724	MW20_061224	MW21_061224	MW22_061224	MW22_061224_a	MW23_061024	102_060624
Aquifer Zone				Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow
Well Identification			MCL/MSC/PCL	MW-16	MW-17	MW-18	MW-19	MW-20	MW-21	MW-22	MW-22	MW-23	MW-102
ANALYTE	CAS NUMBER	UNITS											
4-Isopropyltoluene	99-87-6	µg/L	10,000	0.75 U	NA	0.75 U	0.75 U	0.75 UJ	0.75 U	0.75 U	0.75 U	50 U	0.50 U
4-Methyl-2-pentanone	108-10-1	µg/L	8,200	3.8 U	NA	3.8 U	3.8 U	3.8 UJ	3.8 U	3.8 U	3.8 U	100 U	1.0 U
Acetone	67-64-1	µg/L	92,000	**3.2 J**	NA	3.8 U	3.8 U	3.8 UJ	3.8 U	3.8 U	3.8 U	50 U	1.0 U
Benzene	71-43-2	µg/L	5	**0.38 J**	NA	0.75 U	0.75 U	0.75 UJ	**1.8**	**0.70 J**	**0.73 J**	50 U	0.50 U
Bromobenzene	108-86-1	µg/L	2,000	0.75 U	NA	0.75 U	0.75 U	0.75 UJ	0.75 U	0.75 U	0.75 U	50 U	0.50 U
Bromochloromethane	74-97-5	µg/L	4,100	0.75 U	NA	0.75 U	0.75 U	0.75 UJ	0.75 U	0.75 U	0.75 U	50 U	0.50 U
Bromodichloromethane	75-27-4	µg/L	4.6	0.75 U	NA	0.75 U	0.75 U	0.75 UJ	0.75 U	0.75 U	0.75 U	50 U	0.50 U
Bromoform	75-25-2	µg/L	36	0.75 U	NA	0.75 U	0.75 U	0.75 UJ	0.75 U	0.75 U	0.75 U	50 U	0.50 U
Bromomethane	74-83-9	µg/L	140	0.75 U	NA	0.75 U	0.75 U	0.75 UJ	0.75 U	0.75 U	0.75 U	50 U	0.50 U
Carbon disulfide	75-15-0	µg/L	10,000	0.75 U	NA	0.75 U	0.75 U	0.75 UJ	0.75 U	0.75 U	0.75 U	200 U	1.0 U
Carbon tetrachloride	56-23-5	µg/L	5	0.75 U	NA	0.75 U	0.75 U	0.75 UJ	0.75 U	0.75 U	0.75 U	100 U	0.50 U
Chlorobenzene	108-90-7	µg/L	100	0.75 U	NA	0.75 U	0.75 U	0.75 UJ	0.75 U	0.75 U	0.75 U	50 U	0.50 U
Chloroethane	75-00-3	µg/L	41,000	0.75 U	NA	0.75 U	0.75 U	0.75 UJ	0.75 U	0.75 U	0.75 U	50 U	0.50 U
Chloroform	67-66-3	µg/L	1,000	**0.50 J**	NA	0.75 U	0.75 U	0.75 UJ	0.75 U	**2.7**	**2.8**	50 U	0.50 U
Chloromethane	74-87-3	µg/L	220	**0.38 J**	NA	0.75 U	0.75 U	0.75 UJ	0.75 U	0.75 U	0.75 U	50 U	0.50 U
cis-1,2-Dichloroethene	156-59-2	µg/L	70	**51.8**	NA	0.75 U	**4.3**	0.75 UJ	**4,560**	**5.7**	**5.8**	50 U	**12**
cis-1,3-Dichloropropene	10061-01-5	µg/L	5.3	0.75 U	NA	0.75 U	0.75 U	0.75 UJ	0.75 U	0.75 U	0.75 U	50 U	0.50 U
Dibromochloromethane	124-48-1	µg/L	34	0.75 U	NA	0.75 U	0.75 U	0.75 UJ	0.75 U	0.75 U	0.75 U	50 U	0.50 U
Dibromomethane	74-95-3	µg/L	380	0.75 U	NA	0.75 U	0.75 U	0.75 UJ	0.75 U	0.75 U	0.75 U	50 U	0.50 U
Dichlorodifluoromethane	75-71-8	µg/L	20,000	0.75 U	NA	0.75 U	0.75 U	0.75 UJ	0.75 U	0.75 U	0.75 U	50 U	0.50 U
Ethylbenzene	100-41-4	µg/L	700	0.75 U	NA	0.75 U	0.75 U	0.75 UJ	0.75 U	0.75 U	0.75 U	50 U	0.50 U
Hexachlorobutadiene	87-68-3	µg/L	20	3.8 U	NA	3.8 U	3.8 U	3.8 UJ	3.8 U	3.8 U	3.8 U	200 U	0.50 U
Isopropylbenzene	98-82-8	µg/L	10,000	0.75 U	NA	0.75 U	0.75 U	0.75 UJ	0.75 U	0.75 U	0.75 U	50 U	0.50 U
m,p-Xylene	179601-23-1	µg/L	10,000**	1.5 U	NA	1.5 U	1.5 U	1.5 UJ	1.5 U	1.5 U	1.5 U	100 U	1.0 U
Methylene chloride	75-09-2	µg/L	5	0.75 U	NA	0.75 U	0.75 U	0.75 UJ	0.75 U	0.75 U	0.75 U	100 U	0.50 U
Naphthalene	91-20-3	µg/L	2,000	0.75 U	NA	0.75 U	0.75 U	0.75 UJ	0.75 U	0.75 U	0.75 U	100 U	0.50 U
n-Butylbenzene	104-51-8	µg/L	4,100	0.75 U	NA	0.75 U	0.75 U	0.75 UJ	0.75 U	0.75 U	0.75 U	50 U	0.50 U
n-Propylbenzene	103-65-1	µg/L	4,100	0.75 U	NA	0.75 U	0.75 U	0.75 UJ	0.75 U	0.75 U	0.75 U	50 U	0.50 U
o-Xylene	95-47-6	µg/L	10,000**	0.75 U	NA	0.75 U	0.75 U	0.75 UJ	0.75 U	0.75 U	0.75 U	50 U	0.50 U
sec-Butylbenzene	135-98-8	µg/L	4,100	0.75 U	NA	0.75 U	0.75 U	0.75 UJ	0.75 U	0.75 U	0.75 U	50 U	0.50 U
Styrene	100-42-5	µg/L	100	0.75 U	NA	0.75 U	0.75 U	0.75 UJ	0.75 U	0.75 U	0.75 U	50 U	0.50 U
tert-Butylbenzene	98-06-6	µg/L	4,100	0.75 U	NA	0.75 U	0.75 U	0.75 UJ	0.75 U	0.75 U	0.75 U	50 U	0.50 U
Tetrachloroethene	127-18-4	µg/L	5	**0.88 J**	NA	0.75 U	0.75 U	0.75 UJ	**2.4**	**0.36 J**	**0.45 J**	50 U	0.50 U
Toluene	108-88-3	µg/L	1,000	0.75 U	NA	0.75 U	0.75 U	0.75 UJ	0.75 U	0.75 U	0.75 U	50 U	0.50 U
trans-1,2-Dichloroethene	156-60-5	µg/L	100	**0.99 J**	NA	0.75 U	0.75 U	0.75 UJ	**17.8**	0.75 U	0.75 U	50 U	0.50 U
trans-1,3-Dichloropropene	10061-02-6	µg/L	29	0.75 U	NA	0.75 U	0.75 U	0.75 UJ	0.75 U	0.75 U	0.75 U	50 U	0.50 U
Trichloroethene	79-01-6	µg/L	5	**668**	NA	**2.3**	**2.0**	0.75 UJ	**6,280**	**172 J**	**334 J**	**2,400**	0.50 U
Trichlorofluoromethane	75-69-4	µg/L	31,000	0.75 U	NA	0.75 U	0.75 U	0.75 UJ	0.75 U	0.75 U	0.75 U	50 U	0.50 U
Vinyl chloride	75-01-4	µg/L	2	**2.2**	NA	0.75 U	0.75 U	0.75 UJ	**38.1**	**0.39 J**	**0.38 J**	50 U	0.50 U
Method: SW8270SIM													
1,4-Dioxane	123-91-1	ug/L	9.1	**2.1 J**	**0.018 J**	NA	NA	NA	**0.23**	NA	NA	NA	NA

Notes:

Blue highlighting indicates concentrations above the MCL/MSC/PCL

MCL/MSC - Maximum Contaminant Limit/Medium-Specific Concentrations/Protective Concentration Level.PCL - Texas Risk Reduction Program (TRRP) Tier 1 Groundwater Residential Protective Concentration Level

NA - Not Analyzed/Not Applicable; NV - No value

µg/L - micrograms per liter; mg/L - milligrams per liter

a - duplicate sample

J - Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.

UJ - The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

U - Undetected: The analyte was analyzed for, but not detected at the limit of detection presented.

UB - considered a non-detect due to blank contamination

*Perchlorate, manganese, and nickel compared to the PCL

** Value is for total xylenes

PCL - Texas Risk Reduction Program (TRRP) Tier 1 Groundwater Residential Protective Concentration Level

Table 6. LHAAP-18/24 Analytical Results -- June 2024
2nd Quarter 2024 Groundwater Treatment Plant Report
Longhorn Army Ammunition Plant

Sample ID				102_060624-a	109_061224	120_061024	125_061924	126_061024	129_061024	130_061124	1824DPTMW01_061724	1824DPTMW02_061724	1824DPTMW03_061724
Aquifer Zone			MCL/MSC/PCL	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow
Well Identification				MW-102	MW-109	MW-120	MW-125	MW-126	MW-129	MW-130	1824DPTMW01	1824DPTMW02	1824DPTMW03
ANALYTE	CAS NUMBER	UNITS											
Method: 6850													
Perchlorate		µg/L	17*	**31.4**	**4,390**	**9,670**	**1,340**	0.500 U	**2,030**	**0.471**	**4.99**	**80,600**	0.500 U
Method: SW6020A													
Aluminum	7429-90-5	mg/L	100	**0.254 J**	NA	NA	**0.108**	**0.0340**	**0.190**	**0.549**	NA	NA	NA
Antimony	7440-36-0	mg/L	0.006	**0.000435 J**	NA	NA	0.00125 U	0.00125 U	0.00125 U	0.00125 U	NA	NA	NA
Arsenic	7440-38-2	mg/L	0.01	0.00125 U	NA	NA	**0.00106 J**	**0.0143**	0.00125 U	**0.000776 J**	NA	NA	NA
Barium	7440-39-3	mg/L	2	**0.0796**	NA	NA	**0.0775**	**12.2**	**0.104**	**0.0769**	NA	NA	NA
Beryllium	7440-41-7	mg/L	0.004	**0.000389 J**	NA	NA	0.000500 U	**0.000269 J**	0.000500 U	**0.000336 J**	NA	NA	NA
Cadmium	7440-43-9	mg/L	0.005	**0.000493 J**	NA	NA	0.000500 U	**0.000818 J**	**0.000202 J**	**0.00127 J**	NA	NA	NA
Calcium	7440-70-2	mg/L	NV	**1.93**	NA	NA	**1.52**	**373**	**4.23**	**4.49**	NA	NA	NA
Chromium	7440-47-3	mg/L	0.1	**0.0000621 J**	NA	NA	**0.000873 J**	**0.00134 J**	**0.00137 J**	**0.00118 J**	NA	NA	NA
Cobalt	7440-48-4	mg/L	6.1	**0.00178 J**	NA	NA	**0.00124 J**	**0.0142**	**0.00338 J**	**0.00430 J**	NA	NA	NA
Copper	7440-50-8	mg/L	1.3	**0.00283 J**	NA	NA	0.00125 U	**0.00156 J**	**0.00217 J**	**0.00521**	NA	NA	NA
Iron	7439-89-6	mg/L	NV	**0.143 J**	NA	NA	**0.303**	**14.7**	**0.198 J**	**1.23**	NA	NA	NA
Lead	7439-92-1	mg/L	0.015	0.00125 U	NA	NA	0.00125 U	0.00125 U	**0.000717 J**	**0.00228 J**	NA	NA	NA
Magnesium	7439-95-4	mg/L	NV	**1.42**	NA	NA	**1.07**	**292**	**2.76**	**1.57**	NA	NA	NA
Manganese	7439-96-5	mg/L	1.1*	**0.0196**	NA	NA	**0.0205**	**0.147**	**0.0950**	**0.107**	NA	NA	NA
Nickel	7440-02-0	mg/L	0.49*	**0.00512**	NA	NA	**0.00180 J**	**0.0138**	**0.00409 J**	**0.00434 J**	NA	NA	NA
Potassium	7440-09-7	mg/L	NV	**0.276**	NA	NA	**0.298**	**3.98**	**0.232**	**1.890**	NA	NA	NA
Selenium	7782-49-2	mg/L	0.05	0.00125 U	NA	NA	0.00125 U	0.00125 U	0.00125 U	0.00125 U	NA	NA	NA
Silver	7440-22-4	mg/L	0.51	0.000500 U	NA	NA	0.000500 U	0.000500 U	0.000500 U	0.000500 U	NA	NA	NA
Sodium	7440-23-5	mg/L	NV	**12.8**	NA	NA	**33.4**	**994**	**61.6**	**14.3**	NA	NA	NA
Thallium	7440-28-0	mg/L	0.002	0.000500 U	NA	NA	0.000500 U	0.000500 U	0.000500 U	0.000500 U	NA	NA	NA
Vanadium	7440-62-2	mg/L	0.72	**0.00126 J**	NA	NA	0.00125 U	**0.00282 J**	**0.00163 J**	**0.00398 J**	NA	NA	NA
Zinc	7440-66-6	mg/L	31	**0.0181**	NA	NA	**0.00593**	**0.0410**	**0.0128**	**0.0276**	NA	NA	NA
Method: SW7470A													
Mercury	7439-97-6	mg/L	0.002	0.000100 U	NA	NA	**0.0000340 J**	0.000100 U	0.000100 U	0.000100 U	NA	NA	NA
Method: SW8260													
1,1,1,2-Tetrachloroethane	630-20-6	µg/L	110	0.50 U	0.75 U	50 U	0.75 U	0.50 U	5.0 U	0.50 U	0.75 U	0.75 U	0.75 U
1,1,1-Trichloroethane	71-55-6	µg/L	200	0.50 U	0.75 U	50 U	0.75 U	0.50 U	5.0 U	0.50 U	0.75 U	0.75 U	0.75 U
1,1,2,2-Tetrachloroethane	79-34-5	µg/L	14	1.0 U	0.75 U	100 U	0.75 U	1.0 U	10 U	1.0 U	0.75 U	0.75 U	0.75 U
1,1,2-Trichloroethane	79-00-5	µg/L	5	0.50 U	0.75 U	50 U	0.75 U	0.50 U	5.0 U	0.50 U	0.75 U	0.75 U	0.75 U
1,1-Dichloroethane	75-34-3	µg/L	10,000	0.50 U	0.75 U	50 U	0.75 U	0.50 U	5.0 U	0.50 U	0.75 U	0.75 U	0.75 U
1,1-Dichloroethene	75-35-4	µg/L	7	0.50 U	0.75 U	50 U	**9.9**	0.50 U	5.0 U	1.0 U	0.75 U	0.75 U	0.75 U
1,1-Dichloropropene	563-58-6	µg/L	2.9	0.50 U	0.75 U	50 U	0.75 U	0.50 U	5.0 U	0.50 U	0.75 U	0.75 U	0.75 U
1,2,3-Trichlorobenzene	87-61-6	µg/L	310	0.50 U	0.75 U	100 U	0.75 U	1.1	5.0 U	0.50 U	0.75 U	0.75 U	0.75 U
1,2,3-Trichloropropane	96-18-4	µg/L	0.041	0.50 U	2.5 U	100 U	2.5 U	1.0 U	5.0 U	1.0 U	2.5 U	2.5 U	2.5 U
1,2,4-Trichlorobenzene	120-82-1	µg/L	70	0.50 U	0.75 U	100 U	0.75 U	1.0 U	5.0 U	1.0 U	0.75 U	0.75 U	0.75 U
1,2,4-Trimethylbenzene	95-63-6	µg/L	5,100	0.50 U	0.75 U	50 U	0.75 U	0.50 U	5.0 U	0.50 U	0.75 U	0.75 U	0.75 U
1,2-Dibromo-3-chloropropane	96-12-8	µg/L	0.2	0.50 U	2.5 U	50 U	2.5 U	0.50 U	5.0 U	0.50 U	2.5 U	2.5 U	2.5 U
1,2-Dibromoethane	106-93-4	µg/L	0.05	0.50 U	0.75 U	50 U	0.75 U	0.50 U	5.0 U	0.50 U	0.75 U	0.75 U	0.75 U
1,2-Dichlorobenzene	95-50-1	µg/L	600	0.50 U	0.75 U	100 U	0.75 U	1.0 U	5.0 U	1.0 U	0.75 U	0.75 U	0.75 U
1,2-Dichloroethane	107-06-2	µg/L	5	0.50 U	0.75 U	50 U	0.75 U	0.50 U	5.0 U	0.50 U	0.75 U	0.75 U	0.75 U
1,2-Dichloropropane	78-87-5	µg/L	5	0.50 U	0.75 U	100 U	0.75 U	1.0 U	5.0 U	0.50 U	0.75 U	0.75 U	0.75 U
1,3,5-Trimethylbenzene	108-67-8	µg/L	5,100	0.50 U	0.75 U	50 U	0.75 U	0.50 U	5.0 U	0.50 U	0.75 U	0.75 U	0.75 U
1,3-Dichlorobenzene	541-73-1	µg/L	3,100	0.50 U	0.75 U	50 U	0.75 U	0.50 U	5.0 U	0.50 U	0.75 U	0.75 U	0.75 U
1,3-Dichloropropane	142-28-9	µg/L	29	0.50 U	0.75 U	50 U	0.75 U	0.50 U	5.0 U	1.0 U	0.75 U	0.75 U	0.75 U
1,4-Dichlorobenzene	106-46-7	µg/L	75	0.50 U	0.75 U	50 U	0.75 U	0.50 U	5.0 U	0.50 U	0.75 U	0.75 U	0.75 U
2,2-Dichloropropane	594-20-7	µg/L	42	0.50 U	0.75 U	50 U	0.75 U	0.50 U	5.0 U	0.50 U	0.75 U	0.75 U	0.75 U
2-Butanone	78-93-3	µg/L	61,000	1.0 U	3.8 U	100 U	3.8 U	1.0 U	10 U	1.0 U	3.8 U	3.8 U	3.8 U
2-Chlorotoluene	95-49-8	µg/L	2,000	0.50 U	0.75 U	50 U	0.75 U	0.50 U	5.0 U	0.50 U	0.75 U	0.75 U	0.75 U
2-Hexanone	591-78-6	µg/L	6,100	1.0 U	3.8 U	200 U	3.8 U	2.0 U	10 U	2.0 U	3.8 U	3.8 U	3.8 U
4-Chlorotoluene	106-43-4	µg/L	2,000	0.50 U	0.75 U	50 U	0.75 U	0.50 U	5.0 U	0.50 U	0.75 U	0.75 U	0.75 U

Table 6. LHAAP-18/24 Analytical Results -- June 2024
2nd Quarter 2024 Groundwater Treatment Plant Report
Longhorn Army Ammunition Plant

Sample ID				102_060624-a	109_061224	120_061024	125_061924	126_061024	129_061024	130_061124	1824DPTMW01_061724	1824DPTMW02_061724	1824DPTMW03_061724
Aquifer Zone			MCL/MSC/PCL	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow
Well Identification				MW-102	MW-109	MW-120	MW-125	MW-126	MW-129	MW-130	1824DPTMW01	1824DPTMW02	1824DPTMW03
ANALYTE	CAS NUMBER	UNITS											
4-Isopropyltoluene	99-87-6	µg/L	10,000	0.50 U	0.75 U	50 U	0.75 U	0.50 U	5.0 U	0.50 U	0.75 U	0.75 U	0.75 U
4-Methyl-2-pentanone	108-10-1	µg/L	8,200	1.0 U	3.8 U	100 U	3.8 U	1.0 U	5.0 U	1.0 U	3.8 U	3.8 U	3.8 U
Acetone	67-64-1	µg/L	92,000	1.0 U	3.8 U	50 U	3.8 U	0.50 U	5.0 U	0.50 U	3.8 U	3.8 U	3.8 U
Benzene	71-43-2	µg/L	5	0.50 U	0.75 U	50 U	0.75 U	0.50 U	5.0 U	0.50 U	0.75 U	0.75 U	0.75 U
Bromobenzene	108-86-1	µg/L	2,000	0.50 U	0.75 U	50 U	0.75 U	0.50 U	5.0 U	0.50 U	0.75 U	0.75 U	0.75 U
Bromochloromethane	74-97-5	µg/L	4,100	0.50 U	0.75 U	50 U	0.75 U	0.50 U	5.0 U	0.50 U	0.75 U	0.75 U	0.75 U
Bromodichloromethane	75-27-4	µg/L	4.6	0.50 U	0.75 U	50 U	0.75 U	0.50 U	5.0 U	0.50 U	0.75 U	0.75 U	0.75 U
Bromoform	75-25-2	µg/L	36	0.50 U	0.75 U	50 U	0.75 U	0.50 U	5.0 U	0.50 U	0.75 U	0.75 U	0.75 U
Bromomethane	74-83-9	µg/L	140	0.50 U	0.75 U	50 U	0.75 U	0.50 U	5.0 U	0.50 U	0.75 U	0.75 U	0.75 U
Carbon disulfide	75-15-0	µg/L	10,000	1.0 U	0.75 U	200 U	0.75 U	2.0 U	5.0 U	2.0 U	0.75 U	0.75 U	0.75 U
Carbon tetrachloride	56-23-5	µg/L	5	0.50 U	0.75 U	100 U	0.75 U	1.0 U	5.0 U	1.0 U	0.75 U	0.75 U	0.75 U
Chlorobenzene	108-90-7	µg/L	100	0.50 U	0.75 U	50 U	0.75 U	0.50 U	5.0 U	0.50 U	0.75 U	0.75 U	0.75 U
Chloroethane	75-00-3	µg/L	41,000	0.50 U	0.75 U	50 U	0.75 U	0.50 U	5.0 U	0.50 U	0.75 U	0.75 U	0.75 U
Chloroform	67-66-3	µg/L	1,000	0.50 U	0.75 U	50 U	0.75 U	0.50 U	5.0 U	0.50 U	0.75 U	0.75 U	0.75 U
Chloromethane	74-87-3	µg/L	220	0.50 U	0.75 U	50 U	0.75 U	0.50 U	5.0 U	0.50 U	0.75 U	0.75 U	0.75 U
cis-1,2-Dichloroethene	156-59-2	µg/L	70	0.50 U	**777 J**	**820**	**0.38 J**	0.50 U	**5.3 J**	0.50 U	0.75 U	0.75 U	0.75 U
cis-1,3-Dichloropropene	10061-01-5	µg/L	5.3	0.50 U	0.75 U	50 U	0.75 U	0.50 U	5.0 U	0.50 U	0.75 U	0.75 U	0.75 U
Dibromochloromethane	124-48-1	µg/L	34	0.50 U	0.75 U	50 U	0.75 U	0.50 U	5.0 U	0.50 U	0.75 U	0.75 U	0.75 U
Dibromomethane	74-95-3	µg/L	380	0.50 U	0.75 U	50 U	0.75 U	0.50 U	5.0 U	0.50 U	0.75 U	0.75 U	0.75 U
Dichlorodifluoromethane	75-71-8	µg/L	20,000	0.50 U	0.75 U	50 U	0.75 U	0.50 U	5.0 U	0.50 U	0.75 U	0.75 U	0.75 U
Ethylbenzene	100-41-4	µg/L	700	0.50 U	0.75 U	50 U	0.75 U	0.50 U	5.0 U	0.50 U	0.75 U	0.75 U	0.75 U
Hexachlorobutadiene	87-68-3	µg/L	20	0.50 U	3.8 U	200 U	3.8 U	2.0 U	5.0 U	2.0 U	3.8 U	3.8 U	3.8 U
Isopropylbenzene	98-82-8	µg/L	10,000	0.50 U	0.75 U	50 U	0.75 U	0.50 U	5.0 U	0.50 U	0.75 U	0.75 U	0.75 U
m,p-Xylene	179601-23-1	µg/L	10,000**	1.0 U	1.5 U	100 U	1.5 U	1.0 U	10 U	1.0 U	1.5 U	1.5 U	1.5 U
Methylene chloride	75-09-2	µg/L	5	0.50 U	0.75 U	100 U	0.75 U	1.0 U	5.0 U	1.0 U	0.75 U	0.75 U	0.75 U
Naphthalene	91-20-3	µg/L	2,000	0.50 U	0.75 U	100 U	0.75 U	0.50 U	5.0 U	1.0 U	0.75 U	0.75 U	0.75 U
n-Butylbenzene	104-51-8	µg/L	4,100	0.50 U	0.75 U	50 U	0.75 U	1.0 U	5.0 U	1.0 U	0.75 U	0.75 U	0.75 U
n-Propylbenzene	103-65-1	µg/L	4,100	0.50 U	0.75 U	50 U	0.75 U	0.50 U	5.0 U	0.50 U	0.75 U	0.75 U	0.75 U
o-Xylene	95-47-6	µg/L	10,000**	0.50 U	0.75 U	50 U	0.75 U	0.50 U	5.0 U	0.50 U	0.75 U	0.75 U	0.75 U
sec-Butylbenzene	135-98-8	µg/L	4,100	0.50 U	0.75 U	50 U	0.75 U	0.50 U	5.0 U	0.50 U	0.75 U	0.75 U	0.75 U
Styrene	100-42-5	µg/L	100	0.50 U	0.75 U	50 U	0.75 U	0.50 U	5.0 U	0.50 U	0.75 U	0.75 U	0.75 U
tert-Butylbenzene	98-06-6	µg/L	4,100	0.50 U	0.75 U	50 U	0.75 U	0.50 U	5.0 U	0.50 U	0.75 U	0.75 U	0.75 U
Tetrachloroethene	127-18-4	µg/L	5	0.50 U	**0.94 J**	50 U	0.75 U	0.50 U	5.0 U	0.50 U	0.75 U	0.75 U	0.75 U
Toluene	108-88-3	µg/L	1,000	0.50 U	0.75 U	50 U	0.75 U	0.50 U	5.0 U	0.50 U	0.75 U	0.75 U	0.75 U
trans-1,2-Dichloroethene	156-60-5	µg/L	100	0.50 U	**4.8**	50 U	0.75 U	0.50 U	5.0 U	0.50 U	0.75 U	0.75 U	0.75 U
trans-1,3-Dichloropropene	10061-02-6	µg/L	29	0.50 U	0.75 U	50 U	0.75 U	0.50 U	5.0 U	0.50 U	0.75 U	0.75 U	0.75 U
Trichloroethene	79-01-6	µg/L	5	0.50 U	**1,140**	**5,700**	**1.5**	0.50 U	**740**	0.50 U	0.75 U	0.75 U	0.75 U
Trichlorofluoromethane	75-69-4	µg/L	31,000	0.50 U	0.75 U	50 U	0.75 U	0.50 U	5.0 U	0.50 U	0.75 U	0.75 U	0.75 U
Vinyl chloride	75-01-4	µg/L	2	0.50 U	**3.1**	50 U	0.75 U	0.50 U	5.0 U	0.50 U	0.75 U	0.75 U	0.75 U
Method: SW8270SIM													
1,4-Dioxane	123-91-1	ug/L	9.1	NA	**0.045**	**5.3**	NA	**0.061**	**0.26**	NA	0.020 UJ	**0.059 J**	0.020 UJ

Notes:

Blue highlighting indicates concentrations above the MCL/MSC/PCL

MCL/MSC - Maximum Contaminant Limit/Medium-Specific Concentrations/Protective Concentration Level.PCL - Texas Risk Reduction Program (TRRP) Tier 1 Groundwater Residential Protective Concentration Level

NA - Not Analyzed/Not Applicable; NV - No value

µg/L - micrograms per liter; mg/L - milligrams per liter

a - duplicate sample

J - Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.

UJ - The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

U - Undetected: The analyte was analyzed for, but not detected at the limit of detection presented.

UB - considered a non-detect due to blank contamination

*Perchlorate, manganese, and nickel compared to the PCL

** Value is for total xylenes

PCL - Texas Risk Reduction Program (TRRP) Tier 1 Groundwater Residential Protective Concentration Level

Table 6. LHAAP-18/24 Analytical Results -- June 2024
2nd Quarter 2024 Groundwater Treatment Plant Report
Longhorn Army Ammunition Plant

Sample ID				1824DPTMW04_061824	1824DPTMW05_061024	1824DPTMW05_061024-a	1824DPTMW06_061324	ICT2_062024	ICT4_062024	ICT7_062024	ICT8_062024	ICT11_062024
Aquifer Zone			MCL/MSC/PCL	Shallow	Shallow	Shallow	Shallow	NA	NA	NA	NA	NA
Well Identification				1824DPTMW04	1824DPTMW05	1824DPTMW05	1824DPTMW06	ICT2	ICT4	ICT7	ICT8	ICT11
ANALYTE	CAS NUMBER	UNITS										
Method: 6850												
Perchlorate		µg/L	17*	**16.6**	**119,000**	**99,800**	**18.8**	**0.684**	**2,250**	**255**	**827**	**2,820**
Method: SW6020A												
Aluminum	7429-90-5	mg/L	100	NA	NA	NA	NA	**0.0666**	**0.0106**	**0.141**	**0.0686**	**0.104**
Antimony	7440-36-0	mg/L	0.006	NA	NA	NA	NA	**0.000973 J**	0.00125 U	0.00125 U	**0.000983 J**	0.00125 U
Arsenic	7440-38-2	mg/L	0.01	NA	NA	NA	NA	**0.00292 J**	0.00125 U	0.00125 U	**0.00166 J**	0.00125 U
Barium	7440-39-3	mg/L	2	NA	NA	NA	NA	**0.0490**	**0.0696**	**0.0711**	**0.0402**	**0.168**
Beryllium	7440-41-7	mg/L	0.004	NA	NA	NA	NA	0.000500 U	0.000500 U	**0.000291 J**	0.000500 U	0.000500 U
Cadmium	7440-43-9	mg/L	0.005	NA	NA	NA	NA	0.000500 U	0.000500 U	0.000500 U	**0.000231 J**	0.000500 U
Calcium	7440-70-2	mg/L	NV	NA	NA	NA	NA	**2.47**	**12.9**	**1.82**	**12.1**	**5.27**
Chromium	7440-47-3	mg/L	0.1	NA	NA	NA	NA	**0.0168**	**0.00471 J**	**0.00556**	**0.00607**	**0.00514**
Cobalt	7440-48-4	mg/L	6.1	NA	NA	NA	NA	**0.00701**	**0.00168 J**	**0.00124 J**	**0.00251 J**	**0.000266 J**
Copper	7440-50-8	mg/L	1.3	NA	NA	NA	NA	**0.0203**	**0.00173 J**	**0.00929**	**0.0584**	**0.00424 J**
Iron	7439-89-6	mg/L	NV	NA	NA	NA	NA	**5.74**	**0.0735 J**	**0.576**	**3.55**	**0.0263 J**
Lead	7439-92-1	mg/L	0.015	NA	NA	NA	NA	**0.00982**	0.00125 U	0.00125 U	0.00125 U	0.00125 U
Magnesium	7439-95-4	mg/L	NV	NA	NA	NA	NA	**1.98**	**11.5**	**1.40**	**9.60**	**3.43**
Manganese	7439-96-5	mg/L	1.1*	NA	NA	NA	NA	**0.165**	**0.0580**	**0.0292**	**0.386**	**0.0149**
Nickel	7440-02-0	mg/L	0.49*	NA	NA	NA	NA	**0.0159**	**0.0313**	**0.0391**	**0.0168**	**0.0135**
Potassium	7440-09-7	mg/L	NV	NA	NA	NA	NA	**0.777**	**1.01**	**0.655**	**1.10**	**0.652**
Selenium	7782-49-2	mg/L	0.05	NA	NA	NA	NA	0.00125 U	0.00125 U	0.00125 U	0.00125 U	0.00125 U
Silver	7440-22-4	mg/L	0.51	NA	NA	NA	NA	0.000500 U	0.000500 U	0.000500 U	0.000500 U	0.000500 U
Sodium	7440-23-5	mg/L	NV	NA	NA	NA	NA	**49.9**	**146**	**10.4**	**57.7**	**40.1**
Thallium	7440-28-0	mg/L	0.002	NA	NA	NA	NA	0.000500 U	0.000500 U	0.000500 U	**0.000543 J**	0.000500 U
Vanadium	7440-62-2	mg/L	0.72	NA	NA	NA	NA	**0.00120 J**	0.00125 U	0.00125 U	**0.000809 J**	0.00125 U
Zinc	7440-66-6	mg/L	31	NA	NA	NA	NA	**0.0347**	**0.0309**	**0.0277**	**0.188**	**0.0177**
Method: SW7470A												
Mercury	7439-97-6	mg/L	0.002	NA	NA	NA	NA	0.000100 U	0.000100 U	0.000100 U	0.000100 U	0.000100 U
Method: SW8260												
1,1,1,2-Tetrachloroethane	630-20-6	µg/L	110	0.75 U	50 U	50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
1,1,1-Trichloroethane	71-55-6	µg/L	200	0.75 U	50 U	50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
1,1,2,2-Tetrachloroethane	79-34-5	µg/L	14	0.75 U	100 U	100 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
1,1,2-Trichloroethane	79-00-5	µg/L	5	0.75 U	50 U	50 U	0.75 U	0.75 U	**0.36 J**	0.75 U	**0.57 J**	0.75 U
1,1-Dichloroethane	75-34-3	µg/L	10,000	0.75 U	50 U	50 U	**1.4**	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
1,1-Dichloroethene	75-35-4	µg/L	7	0.75 U	50 U	50 U	0.75 U	0.75 U	0.75 U	0.75 U	**67.9**	**0.66 J**
1,1-Dichloropropene	563-58-6	µg/L	2.9	0.75 U	50 U	50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
1,2,3-Trichlorobenzene	87-61-6	µg/L	310	0.75 U	100 U	100 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
1,2,3-Trichloropropane	96-18-4	µg/L	0.041	2.5 U	100 U	100 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4-Trichlorobenzene	120-82-1	µg/L	70	0.75 U	100 U	100 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
1,2,4-Trimethylbenzene	95-63-6	µg/L	5,100	0.75 U	50 U	50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
1,2-Dibromo-3-chloropropane	96-12-8	µg/L	0.2	2.5 U	50 U	50 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromoethane	106-93-4	µg/L	0.05	0.75 U	50 U	50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
1,2-Dichlorobenzene	95-50-1	µg/L	600	0.75 U	100 U	100 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
1,2-Dichloroethane	107-06-2	µg/L	5	0.75 U	50 U	50 U	**1.8**	**0.51 J**	**50.0**	0.75 U	**20.7**	0.75 U
1,2-Dichloropropane	78-87-5	µg/L	5	0.75 U	100 U	100 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
1,3,5-Trimethylbenzene	108-67-8	µg/L	5,100	0.75 U	50 U	50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
1,3-Dichlorobenzene	541-73-1	µg/L	3,100	0.75 U	50 U	50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
1,3-Dichloropropane	142-28-9	µg/L	29	0.75 U	50 U	50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
1,4-Dichlorobenzene	106-46-7	µg/L	75	0.75 U	50 U	50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
2,2-Dichloropropane	594-20-7	µg/L	42	0.75 U	50 U	50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
2-Butanone	78-93-3	µg/L	61,000	3.8 U	100 U	100 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
2-Chlorotoluene	95-49-8	µg/L	2,000	0.75 U	50 U	50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
2-Hexanone	591-78-6	µg/L	6,100	3.8 U	200 U	200 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
4-Chlorotoluene	106-43-4	µg/L	2,000	0.75 U	50 U	50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U

Table 6. LHAAP-18/24 Analytical Results -- June 2024
2nd Quarter 2024 Groundwater Treatment Plant Report
Longhorn Army Ammunition Plant

Sample ID				1824DPTMW04_061824	1824DPTMW05_061024	1824DPTMW05_061024-a	1824DPTMW06_061324	ICT2_062024	ICT4_062024	ICT7_062024	ICT8_062024	ICT11_062024
Aquifer Zone			MCL/MSC/PCL	Shallow	Shallow	Shallow	Shallow	NA	NA	NA	NA	NA
Well Identification				1824DPTMW04	1824DPTMW05	1824DPTMW05	1824DPTMW06	ICT2	ICT4	ICT7	ICT8	ICT11
ANALYTE	CAS NUMBER	UNITS										
4-Isopropyltoluene	99-87-6	µg/L	10,000	0.75 U	50 U	50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
4-Methyl-2-pentanone	108-10-1	µg/L	8,200	3.8 U	100 U	100 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
Acetone	67-64-1	µg/L	92,000	3.8 U	50 U	50 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
Benzene	71-43-2	µg/L	5	0.75 U	50 U	50 U	0.75 U	0.75 U	**0.60 J**	0.75 U	**1.3**	0.75 U
Bromobenzene	108-86-1	µg/L	2,000	0.75 U	50 U	50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
Bromochloromethane	74-97-5	µg/L	4,100	0.75 U	50 U	50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
Bromodichloromethane	75-27-4	µg/L	4.6	0.75 U	50 U	50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
Bromoform	75-25-2	µg/L	36	0.75 U	50 U	50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
Bromomethane	74-83-9	µg/L	140	0.75 U	50 U	50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
Carbon disulfide	75-15-0	µg/L	10,000	0.75 U	200 U	200 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
Carbon tetrachloride	56-23-5	µg/L	5	0.75 U	100 U	100 U	0.75 U	0.75 U	**3.0**	0.75 U	**1.2**	**0.68 J**
Chlorobenzene	108-90-7	µg/L	100	0.75 U	50 U	50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
Chloroethane	75-00-3	µg/L	41,000	0.75 U	50 U	50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
Chloroform	67-66-3	µg/L	1,000	0.75 U	50 U	50 U	0.75 U	0.75 U	0.75 U	0.75 U	**3.3**	**1.1**
Chloromethane	74-87-3	µg/L	220	0.75 U	50 U	50 U	**0.42 J**	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
cis-1,2-Dichloroethene	156-59-2	µg/L	70	0.75 U	50 U	50 U	**8.2**	**6.9**	**679**	0.75 U	**1,820**	**25.6**
cis-1,3-Dichloropropene	10061-01-5	µg/L	5.3	0.75 U	50 U	50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
Dibromochloromethane	124-48-1	µg/L	34	0.75 U	50 U	50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
Dibromomethane	74-95-3	µg/L	380	0.75 U	50 U	50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
Dichlorodifluoromethane	75-71-8	µg/L	20,000	0.75 U	50 U	50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
Ethylbenzene	100-41-4	µg/L	700	0.75 U	50 U	50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
Hexachlorobutadiene	87-68-3	µg/L	20	3.8 U	200 U	200 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
Isopropylbenzene	98-82-8	µg/L	10,000	0.75 U	50 U	50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
m,p-Xylene	179601-23-1	µg/L	10,000**	1.5 U	100 U	100 U	1.5 U	1.5	1.5	1.5	1.5 U	1.5 U
Methylene chloride	75-09-2	µg/L	5	0.75 U	100 U	100 U	0.75 U	0.75 U	0.75 U	0.75 U	**1,220**	0.75 U
Naphthalene	91-20-3	µg/L	2,000	0.75 U	100 U	100 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
n-Butylbenzene	104-51-8	µg/L	4,100	0.75 U	50 U	50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
n-Propylbenzene	103-65-1	µg/L	4,100	0.75 U	50 U	50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
o-Xylene	95-47-6	µg/L	10,000**	0.75 U	50 U	50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
sec-Butylbenzene	135-98-8	µg/L	4,100	0.75 U	50 U	50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
Styrene	100-42-5	µg/L	100	0.75 U	50 U	50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
tert-Butylbenzene	98-06-6	µg/L	4,100	0.75 U	50 U	50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
Tetrachloroethene	127-18-4	µg/L	5	0.75 U	50 U	50 U	0.75 U	0.75 U	**0.47 J**	0.75 U	**51.4**	0.75 U
Toluene	108-88-3	µg/L	1,000	0.75 U	50 U	50 U	0.75 U	0.75 U	0.75 U	0.75 U	**0.80 J**	0.75 U
trans-1,2-Dichloroethene	156-60-5	µg/L	100	0.75 U	50 U	50 U	0.75 U	0.75 U	**3.8**	0.75 U	0.75 U	**0.42 J**
trans-1,3-Dichloropropene	10061-02-6	µg/L	29	0.75 U	50 U	50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
Trichloroethene	79-01-6	µg/L	5	**1.1**	**3,500**	**3,200**	**12.3**	**1.4**	**1,560**	**0.86 J**	**1,400**	**218**
Trichlorofluoromethane	75-69-4	µg/L	31,000	0.75 U	50 U	50 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
Vinyl chloride	75-01-4	µg/L	2	0.75 U	50 U	50 U	0.75 U	0.75 U	**2.9**	0.75 U	**106**	**0.47 J**
Method: SW8270SIM												
1,4-Dioxane	123-91-1	ug/L	9.1	**0.14**	**8.4**	**9.3**	**0.83**	NA	NA	NA	NA	NA

Notes:

Blue highlighting indicates concentrations above the MCL/MSC/PCL

MCL/MSC - Maximum Contaminant Limit/Medium-Specific Concentrations/Protective Concentration Level.PCL - Texas Risk Reduction Program (TRRP) Tier 1 Groundwater Residential Protective Concentration Level

NA - Not Analyzed/Not Applicable; NV - No value

µg/L - micrograms per liter; mg/L - milligrams per liter

a - duplicate sample

J - Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.

UJ - The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

U - Undetected: The analyte was analyzed for, but not detected at the limit of detection presented.

UB - considered a non-detect due to blank contamination

*Perchlorate, manganese, and nickel compared to the PCL

** Value is for total xylenes

PCL - Texas Risk Reduction Program (TRRP) Tier 1 Groundwater Residential Protective Concentration Level

Table 6. LHAAP-18/24 Analytical Results -- June 2024
2nd Quarter 2024 Groundwater Treatment Plant Report
Longhorn Army Ammunition Plant

Sample ID				ICT12A_062024	ICT12B_062024	ICT12C_062024	ICT12D_062024	ICT12D_062024_a	ICT12E_062024	ICT13A_062024	ICT13B_062024	ICT13C_062024
Aquifer Zone				NA	NA	NA	NA	NA	NA	NA	NA	NA
Well Identification				ICT12A	ICT12B	ICT12C	ICT12D	ICT12D	ICT12E	ICT13A	ICT13B	ICT13C
ANALYTE	CAS NUMBER	UNITS	MCL/MSC/PCL									
Method: 6850												
Perchlorate		µg/L	17*	**2,350**	**11,800**	**563**	**18.3**	**23.9**	**0.268**	**69.0**	**495**	**102**
Method: SW6020A												
Aluminum	7429-90-5	mg/L	100	**0.0296**	**0.0579**	**0.0249**	**0.0156**	**0.0159**	**0.0170**	**0.228**	**0.00956 J**	**0.00707 J**
Antimony	7440-36-0	mg/L	0.006	**0.00164 J**	**0.000584 J**	0.00125 U	0.00125 U	0.00125 U	**0.000590 J**	0.00125 U	0.00125 U	0.00125 U
Arsenic	7440-38-2	mg/L	0.01	**0.000913 J**	0.00125 U	**0.000618 J**	**0.00354 J**	**0.00368 J**	**0.00420 J**	0.00125 U	**0.000515 J**	0.00125 U
Barium	7440-39-3	mg/L	2	**0.382**	**0.155**	**0.0780**	**0.120**	**0.125**	**0.0471**	**0.402**	**0.0309**	**0.0210**
Beryllium	7440-41-7	mg/L	0.004	**0.000953 J**	0.000500 U	0.000500 U	0.000500 U	0.000500 U	0.000500 U	0.000500 U	0.000500 U	0.000500 U
Cadmium	7440-43-9	mg/L	0.005	**0.00190 J**	0.000500 U	0.000500 U	0.000500 U	0.000500 U	0.000500 U	0.000500 U	0.000500 U	0.000500 U
Calcium	7440-70-2	mg/L	NV	**6.20**	**10.1**	**2.26**	**7.90**	**8.13**	**7.43**	**1.42**	**3.76**	**1.11**
Chromium	7440-47-3	mg/L	0.1	**0.0953**	**0.00796**	**0.101**	**0.00322 J**	**0.00653**	**0.00733**	**0.00960**	**0.0154**	**0.00101 J**
Cobalt	7440-48-4	mg/L	6.1	**0.0175**	**0.000633 J**	**0.000514 J**	**0.0106**	**0.0110**	**0.0102**	**0.00200 J**	**0.000371 J**	**0.000245 J**
Copper	7440-50-8	mg/L	1.3	**0.0292**	**0.0646**	**0.0138**	**0.0765**	**0.0532**	**0.0266**	**0.00858**	**0.00748**	**0.0102**
Iron	7439-89-6	mg/L	NV	**1.71**	**0.226**	**1.65**	**6.08**	**5.37**	**21.0**	**2.60**	**0.783**	**0.249**
Lead	7439-92-1	mg/L	0.015	**0.00221 J**	0.00125 U	0.00125 U	0.00125 U	0.00125 U	0.00625 U	0.00125 U	**0.000879 J**	0.00125 U
Magnesium	7439-95-4	mg/L	NV	**5.01**	**6.96**	**1.68**	**7.18**	**7.37**	**6.82**	**1.18**	**4.40**	**0.745**
Manganese	7439-96-5	mg/L	1.1*	**1.30**	**0.0184**	**0.00977**	**0.396**	**0.392**	**0.363**	**0.0303**	**0.00958**	**0.0142**
Nickel	7440-02-0	mg/L	0.49*	**0.509**	**0.0613**	**0.0114**	**0.0139**	**0.0121**	**0.0285**	**0.0296**	**0.00279 J**	**0.0101**
Potassium	7440-09-7	mg/L	NV	**0.629**	**0.542**	**0.119 J**	**0.325**	**0.339**	**0.750**	**0.314**	**0.929**	**0.561**
Selenium	7782-49-2	mg/L	0.05	0.00125 U	0.00125 U	**0.00121 J**	0.00125 U	0.00125 U	**0.00185 J**	0.00125 U	0.00125 U	0.00125
Silver	7440-22-4	mg/L	0.51	0.000500 U	0.000500 U	0.000500 U	0.000500 U	0.000500 U	0.000500 U	0.000500 U	0.000500 U	0.000500 U
Sodium	7440-23-5	mg/L	NV	**44.3**	**90.9**	**32.3**	**26.8**	**27.2**	**97.9**	**23.9**	**30.1**	**9.09**
Thallium	7440-28-0	mg/L	0.002	**0.000218 J**	0.000500 U	0.000500 U	0.000500 U	0.000500 U	**0.00123 J**	0.000500 U	0.000500 U	0.000500 U
Vanadium	7440-62-2	mg/L	0.72	0.00125 U	0.00125 U	0.00125 U	0.00125 U	0.00125 U	0.00125 U	**0.00121 J**	0.00125 U	0.00125 U
Zinc	7440-66-6	mg/L	31	**0.255**	**0.0158**	**0.0230**	**0.0262**	**0.0247**	**1.70**	**0.0503**	**0.0174**	**0.0318**
Method: SW7470A												
Mercury	7439-97-6	mg/L	0.002	0.000100 U	0.000100 U	0.000100 U	0.000100 U	0.000100 U	0.000100 U	0.000100 U	0.000100 U	0.000100 U
Method: SW8260												
1,1,1,2-Tetrachloroethane	630-20-6	µg/L	110	0.75 U	0.75 U	15.0 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
1,1,1-Trichloroethane	71-55-6	µg/L	200	0.75 U	0.75 U	15.0 U	0.75 U	**1.1**	**5.9**	0.75 U	0.75 U	0.75 U
1,1,2,2-Tetrachloroethane	79-34-5	µg/L	14	0.75 U	0.75 U	15.0 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
1,1,2-Trichloroethane	79-00-5	µg/L	5	0.75 U	0.75 U	15.0 U	**2.9**	**2.5**	**4.8**	0.75 U	0.75 U	0.75 U
1,1-Dichloroethane	75-34-3	µg/L	10,000	0.75 U	0.75 U	15.0 U	**22.1**	**19.4**	**45.1**	0.75 U	0.75 U	0.75 U
1,1-Dichloroethene	75-35-4	µg/L	7	**1.9**	0.75 U	15.0 U	**156**	0.75 U	**340**	**7.8**	0.75 U	0.75 U
1,1-Dichloropropene	563-58-6	µg/L	2.9	0.75 U	0.75 U	15.0 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
1,2,3-Trichlorobenzene	87-61-6	µg/L	310	0.75 U	0.75 U	15.0 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
1,2,3-Trichloropropane	96-18-4	µg/L	0.041	2.5 U	2.5 U	50.0 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4-Trichlorobenzene	120-82-1	µg/L	70	0.75 U	0.75 U	15.0 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
1,2,4-Trimethylbenzene	95-63-6	µg/L	5,100	0.75 U	0.75 U	15.0 U	**0.95 J**	**0.99 J**	**1.7**	0.75 U	0.75 U	0.75 U
1,2-Dibromo-3-chloropropane	96-12-8	µg/L	0.2	2.5 U	2.5 U	50.0 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromoethane	106-93-4	µg/L	0.05	0.75 U	0.75 U	15.0 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
1,2-Dichlorobenzene	95-50-1	µg/L	600	0.75 U	0.75 U	15.0 U	**0.53 J**	**0.46 J**	**0.81 J**	0.75 U	0.75 U	0.75 U
1,2-Dichloroethane	107-06-2	µg/L	5	0.75 U	0.75 U	15.0 U	**158**	**143**	0.75 U	**8.6**	0.75 U	0.75 U
1,2-Dichloropropane	78-87-5	µg/L	5	0.75 U	0.75 U	15.0 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
1,3,5-Trimethylbenzene	108-67-8	µg/L	5,100	0.75 U	0.75 U	15.0 U	**0.40 J**	**0.41 J**	**0.57 J**	0.75 U	0.75 U	0.75 U
1,3-Dichlorobenzene	541-73-1	µg/L	3,100	0.75 U	0.75 U	15.0 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
1,3-Dichloropropane	142-28-9	µg/L	29	0.75 U	0.75 U	15.0 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
1,4-Dichlorobenzene	106-46-7	µg/L	75	0.75 U	0.75 U	15.0 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
2,2-Dichloropropane	594-20-7	µg/L	42	0.75 U	0.75 U	15.0 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
2-Butanone	78-93-3	µg/L	61,000	3.8 U	3.8 U	75.0 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
2-Chlorotoluene	95-49-8	µg/L	2,000	0.75 U	0.75 U	15.0 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
2-Hexanone	591-78-6	µg/L	6,100	3.8 U	3.8 U	75.0 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
4-Chlorotoluene	106-43-4	µg/L	2,000	0.75 U	0.75 U	15.0 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U

Table 6. LHAAP-18/24 Analytical Results -- June 2024
2nd Quarter 2024 Groundwater Treatment Plant Report
Longhorn Army Ammunition Plant

Sample ID				ICT12A_062024	ICT12B_062024	ICT12C_062024	ICT12D_062024	ICT12D_062024_a	ICT12E_062024	ICT13A_062024	ICT13B_062024	ICT13C_062024
Aquifer Zone				NA	NA	NA	NA	NA	NA	NA	NA	NA
Well Identification				ICT12A	ICT12B	ICT12C	ICT12D	ICT12D	ICT12E	ICT13A	ICT13B	ICT13C
ANALYTE	CAS NUMBER	UNITS	MCL/MSC/PCL									
4-Isopropyltoluene	99-87-6	µg/L	10,000	0.75 U	0.75 U	15.0 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
4-Methyl-2-pentanone	108-10-1	µg/L	8,200	3.8 U	3.8 U	75.0 U	**2.5 J**	**2.2 J**	**1.9 J**	3.8 U	3.8 U	3.8 U
Acetone	67-64-1	µg/L	92,000	3.8 U	3.8 U	75.0 U	3.8 U	**12.5**	**32.1**	3.8 U	3.8 U	3.8 U
Benzene	71-43-2	µg/L	5	0.75 U	**1.2**	15.0 U	0.75 U	0.75 U	3.3	0.75 U	0.75 U	0.75 U
Bromobenzene	108-86-1	µg/L	2,000	0.75 U	0.75 U	15.0 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
Bromochloromethane	74-97-5	µg/L	4,100	0.75 U	0.75 U	15.0 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
Bromodichloromethane	75-27-4	µg/L	4.6	0.75 U	0.75 U	15.0 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
Bromoform	75-25-2	µg/L	36	0.75 U	0.75 U	15.0 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
Bromomethane	74-83-9	µg/L	140	0.75 U	0.75 U	15.0 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
Carbon disulfide	75-15-0	µg/L	10,000	0.75 U	0.75 U	15.0 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
Carbon tetrachloride	56-23-5	µg/L	5	0.75 U	**34.2**	15.0 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
Chlorobenzene	108-90-7	µg/L	100	0.75 U	0.75 U	15.0 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
Chloroethane	75-00-3	µg/L	41,000	0.75 U	0.75 U	15.0 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
Chloroform	67-66-3	µg/L	1,000	**2.8**	**35.4**	15.0 U	**15.0**	**14.4**	**25.3**	0.75 U	0.75 U	0.75 U
Chloromethane	74-87-3	µg/L	220	0.75 U	**0.33 J**	15.0 U	0.75 U	0.75 U	0.75 U	**0.38 J**	0.75 U	0.75 U
cis-1,2-Dichloroethene	156-59-2	µg/L	70	**53.7**	**105**	**183**	**21,900**	**21,700**	**17,900**	**38.1**	**1.3**	**7.6**
cis-1,3-Dichloropropene	10061-01-5	µg/L	5.3	0.75 U	0.75 U	15.0 U	0.75 U	10.1	10.1	0.75 U	0.75 U	0.75 U
Dibromochloromethane	124-48-1	µg/L	34	0.75 U	0.75 U	15.0 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
Dibromomethane	74-95-3	µg/L	380	0.75 U	0.75 U	15.0 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
Dichlorodifluoromethane	75-71-8	µg/L	20,000	0.75 U	0.75 U	15.0 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
Ethylbenzene	100-41-4	µg/L	700	0.75 U	0.75 U	15.0 U	**12.0**	**10.1**	**2.7**	0.75 U	0.75 U	0.75 U
Hexachlorobutadiene	87-68-3	µg/L	20	3.8 U	3.8 U	75.0 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
Isopropylbenzene	98-82-8	µg/L	10,000	0.75 U	0.75 U	15.0 U	**0.36 J**	**0.37 J**	**0.46 J**	0.75 U	0.75 U	0.75 U
m,p-Xylene	179601-23-1	µg/L	10,000**	1.5 U	1.5 U	30.0 U	**2.3**	**2.2**	**3.7**	1.5 U	1.5 U	1.5 U
Methylene chloride	75-09-2	µg/L	5	0.75 U	0.75 U	15.0 U	**1,670**	**2,170**	**205**	**1.6**	0.75 U	0.75 U
Naphthalene	91-20-3	µg/L	2,000	0.75 U	0.75 U	15.0 U	**0.93 J**	**0.89 J**	**1.5**	0.75 U	0.75 U	0.75 U
n-Butylbenzene	104-51-8	µg/L	4,100	0.75 U	0.75 U	15.0 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
n-Propylbenzene	103-65-1	µg/L	4,100	0.75 U	0.75 U	15.0 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
o-Xylene	95-47-6	µg/L	10,000**	0.75 U	0.75 U	15.0 U	**1.8**	**1.7**	**3.4**	0.75 U	0.75 U	0.75 U
sec-Butylbenzene	135-98-8	µg/L	4,100	0.75 U	0.75 U	15.0 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
Styrene	100-42-5	µg/L	100	**0.64 J**	0.75 U	15.0 U	**0.78 J**	**0.66 J**	**7.2**	**0.65 J**	0.75 U	0.75 U
tert-Butylbenzene	98-06-6	µg/L	4,100	0.75 U	0.75 U	15.0 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
Tetrachloroethene	127-18-4	µg/L	5	0.75 U	**2.4**	15.0 U	**11.3**	**9.5**	**7.7**	**2.5**	0.75 U	0.75 U
Toluene	108-88-3	µg/L	1,000	0.75 U	0.75 U	15.0 U	**8.2**	**7.1**	**6.9**	0.75 U	0.75 U	0.75 U
trans-1,2-Dichloroethene	156-60-5	µg/L	100	**0.51 J**	0.80 J	15.0 U	**18.7**	**17.8**	**23.0**	**1.1**	0.75 U	0.75 U
trans-1,3-Dichloropropene	10061-02-6	µg/L	29	0.75 U	0.75 U	15.0 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
Trichloroethene	79-01-6	µg/L	5	**496**	**5,290**	**1,030**	**10,900**	**11,600**	**18,200**	**375**	**8.4**	**14.6**
Trichlorofluoromethane	75-69-4	µg/L	31,000	0.75 U	0.75 U	15.0 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
Vinyl chloride	75-01-4	µg/L	2	**0.36 J**	0.75 U	15.0 U	**364**	**534**	**161**	**1.3**	0.75 U	0.75 U
Method: SW8270SIM												
1,4-Dioxane	123-91-1	ug/L	9.1	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

Blue highlighting indicates concentrations above the MCL/MSC/PCL

MCL/MSC - Maximum Contaminant Limit/Medium-Specific Concentrations/Protective Concentration Level.PCL - Texas Risk Reduction Program (TRRP) Tier 1 Groundwater Residential Protective Concentration Level

NA - Not Analyzed/Not Applicable; NV - No value

µg/L - micrograms per liter; mg/L - milligrams per liter

a - duplicate sample

J - Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.

UJ - The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

U - Undetected: The analyte was analyzed for, but not detected at the limit of detection presented.

UB - considered a non-detect due to blank contamination

*Perchlorate, manganese, and nickel compared to the PCL

** Value is for total xylenes

PCL - Texas Risk Reduction Program (TRRP) Tier 1 Groundwater Residential Protective Concentration Level

Table 6. LHAAP-18/24 Analytical Results -- June 2024
2nd Quarter 2024 Groundwater Treatment Plant Report
Longhorn Army Ammunition Plant

Sample ID				ICT13D_062024	ICT13D_062024_a	ICT13E_062024	ICT13F_062024	ICT14A_062024	ICT14B_062024	ICT14C_062024	ICT14D_062024	ICT14E_062024
Aquifer Zone				NA	NA	NA	NA	NA	NA	NA	NA	NA
Well Identification				ICT13D	ICT13D	ICT13E	ICT13F	ICT14A	ICT14B	ICT14C	ICT14D	ICT14E
ANALYTE	CAS NUMBER	UNITS	MCL/MSC/PCL									
Method: 6850												
Perchlorate		µg/L	17*	**6.78**	**6.77**	**363**	**0.299**	**3.29**	**2,800**	**1,240**	**23.4**	**87.2**
Method: SW6020A												
Aluminum	7429-90-5	mg/L	100	**0.0750**	**0.104**	**0.330**	**0.302**	**0.848**	**0.0264**	**0.0148**	**0.0121**	**0.580**
Antimony	7440-36-0	mg/L	0.006	0.00125 U	0.00125 U	0.00125 U	0.00125 U	0.00125 U	0.00125 U	0.00125 U	0.00125 U	0.00125 U
Arsenic	7440-38-2	mg/L	0.01	0.00125 U	0.00125 U	**0.000496 J**	0.00125 U	**0.00165 J**	**0.00101 J**	**0.00508**	**0.00708**	**0.000744 J**
Barium	7440-39-3	mg/L	2	**0.0536**	**0.0571**	**0.0751**	**0.0775**	**0.128**	**0.160**	**1.55**	**1.27**	**0.267**
Beryllium	7440-41-7	mg/L	0.004	0.000500 U	0.000500 U	**0.000360 J**	**0.000275 J**	**0.00131 J**	0.000500 U	0.000500 U	**0.000290 J**	0.000500 U
Cadmium	7440-43-9	mg/L	0.005	0.000500 U	0.000500 U	0.000500 U	0.000500 U	0.000500 U	0.000500 U	**0.000446 J**	**0.000272 J**	0.000500 U
Calcium	7440-70-2	mg/L	NV	**1.20**	**1.31**	**1.19**	**1.00**	**1.77**	**4.33**	**59.7**	**61.1**	**5.04**
Chromium	7440-47-3	mg/L	0.1	**0.00379 J**	**0.00350 J**	**0.0147**	**0.00192 J**	**0.0230**	**0.00456 J**	**0.0331**	**0.0122**	**0.0364**
Cobalt	7440-48-4	mg/L	6.1	**0.00112 J**	**0.00119 J**	**0.00168 J**	**0.00156 J**	**0.00466 J**	**0.00153 J**	**0.0276**	**0.0111**	**0.00154 J**
Copper	7440-50-8	mg/L	1.3	**0.0328**	**0.0319**	**0.00779**	**0.0215**	**0.00495 J**	**0.0227**	**0.00208 J**	**0.123**	**0.0109**
Iron	7439-89-6	mg/L	NV	**0.271**	**0.251**	**0.801**	**0.478**	**7.86**	**0.597**	**11.0**	**10.9**	**1.92**
Lead	7439-92-1	mg/L	0.015	**0.00224 J**	**0.00180 J**	**0.000798 J**	**0.000757 J**	**0.000789 J**	**0.000783 J**	0.00125 U	**0.00322 J**	**0.000743 J**
Magnesium	7439-95-4	mg/L	NV	**1.03**	**1.12**	**0.953**	**0.735**	**1.47**	**3.64**	**45.7**	**40.3**	**3.84**
Manganese	7439-96-5	mg/L	1.1*	**0.0122**	**0.0118**	**0.0148**	**0.0153**	**0.0832**	**0.0623**	**1.46**	**1.05**	**0.0455**
Nickel	7440-02-0	mg/L	0.49*	**0.00874**	**0.00743**	**0.0102**	**0.00394 J**	**0.0125**	**0.0123**	**0.0730**	**0.0393**	**0.0327**
Potassium	7440-09-7	mg/L	NV	**0.337**	**0.364**	**0.490**	**0.952**	**0.570**	**0.226**	**0.735**	**0.736**	**0.315**
Selenium	7782-49-2	mg/L	0.05	0.00125	0.00125	0.00125	0.00125	0.00125	0.00125	0.00125	0.00125	0.00125
Silver	7440-22-4	mg/L	0.51	0.000500 U	0.000500 U	0.000500 U	0.000500 U	0.000500 U	0.000500 U	0.000500 U	0.000500 U	0.000500 U
Sodium	7440-23-5	mg/L	NV	**11.9**	**12.7**	**15.3**	**3.64**	**11.7**	**49.8**	**153**	**209**	**28.6**
Thallium	7440-28-0	mg/L	0.002	0.000500 U	0.000500 U	0.000500 U	0.000500 U	0.000500 U	0.000500 U	0.000500 U	0.000500 U	0.000500 U
Vanadium	7440-62-2	mg/L	0.72	0.00125 U	0.00125 U	**0.00116 J**	**0.00127 J**	**0.00223 J**	0.00125	0.00125	0.00125	**0.00104 J**
Zinc	7440-66-6	mg/L	31	**0.0318**	**0.0337**	**0.0220**	**0.0285**	**0.0431**	**0.0269**	**0.0195**	**0.0730**	**0.0324**
Method: SW7470A												
Mercury	7439-97-6	mg/L	0.002	0.000100 U	**0.0000330 J**	0.000100 U	0.000100 U	0.000100 U	0.000100 U	0.000100 U	0.000100 U	0.000100 U
Method: SW8260												
1,1,1,2-Tetrachloroethane	630-20-6	µg/L	110	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
1,1,1-Trichloroethane	71-55-6	µg/L	200	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
1,1,2,2-Tetrachloroethane	79-34-5	µg/L	14	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	**0.72 J**	**5.0**	0.75 U
1,1,2-Trichloroethane	79-00-5	µg/L	5	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	**3.3**	**5.2**	0.75 U
1,1-Dichloroethane	75-34-3	µg/L	10,000	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	**0.71 J**	0.75 U	0.75 U	0.75 U
1,1-Dichloroethene	75-35-4	µg/L	7	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	**3.3**	**190**	0.75 U	0.75 U
1,1-Dichloropropene	563-58-6	µg/L	2.9	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
1,2,3-Trichlorobenzene	87-61-6	µg/L	310	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
1,2,3-Trichloropropane	96-18-4	µg/L	0.041	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4-Trichlorobenzene	120-82-1	µg/L	70	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	**1.1**	0.75 U
1,2,4-Trimethylbenzene	95-63-6	µg/L	5,100	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
1,2-Dibromo-3-chloropropane	96-12-8	µg/L	0.2	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromoethane	106-93-4	µg/L	0.05	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
1,2-Dichlorobenzene	95-50-1	µg/L	600	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
1,2-Dichloroethane	107-06-2	µg/L	5	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
1,2-Dichloropropane	78-87-5	µg/L	5	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
1,3,5-Trimethylbenzene	108-67-8	µg/L	5,100	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	**0.41 J**	0.75 U
1,3-Dichlorobenzene	541-73-1	µg/L	3,100	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
1,3-Dichloropropane	142-28-9	µg/L	29	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
1,4-Dichlorobenzene	106-46-7	µg/L	75	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
2,2-Dichloropropane	594-20-7	µg/L	42	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
2-Butanone	78-93-3	µg/L	61,000	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
2-Chlorotoluene	95-49-8	µg/L	2,000	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
2-Hexanone	591-78-6	µg/L	6,100	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
4-Chlorotoluene	106-43-4	µg/L	2,000	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U

Table 6. LHAAP-18/24 Analytical Results -- June 2024
2nd Quarter 2024 Groundwater Treatment Plant Report
Longhorn Army Ammunition Plant

Sample ID				ICT13D_062024	ICT13D_062024_a	ICT13E_062024	ICT13F_062024	ICT14A_062024	ICT14B_062024	ICT14C_062024	ICT14D_062024	ICT14E_062024
Aquifer Zone				NA	NA	NA	NA	NA	NA	NA	NA	NA
Well Identification				ICT13D	ICT13D	ICT13E	ICT13F	ICT14A	ICT14B	ICT14C	ICT14D	ICT14E
ANALYTE	CAS NUMBER	UNITS	MCL/MSC/PCL									
4-Isopropyltoluene	99-87-6	µg/L	10,000	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
4-Methyl-2-pentanone	108-10-1	µg/L	8,200	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	**3.3 J**	3.8 U
Acetone	67-64-1	µg/L	92,000	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
Benzene	71-43-2	µg/L	5	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
Bromobenzene	108-86-1	µg/L	2,000	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
Bromochloromethane	74-97-5	µg/L	4,100	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
Bromodichloromethane	75-27-4	µg/L	4.6	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
Bromoform	75-25-2	µg/L	36	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
Bromomethane	74-83-9	µg/L	140	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	**2.7 J**
Carbon disulfide	75-15-0	µg/L	10,000	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
Carbon tetrachloride	56-23-5	µg/L	5	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
Chlorobenzene	108-90-7	µg/L	100	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
Chloroethane	75-00-3	µg/L	41,000	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
Chloroform	67-66-3	µg/L	1,000	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	**0.38 J**	**22.7**	**20.6**	0.75 U
Chloromethane	74-87-3	µg/L	220	0.75 U	**0.41 J**	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
cis-1,2-Dichloroethene	156-59-2	µg/L	70	**21.5**	**10.2**	**4.9**	**2.7**	**20.8**	**13.3**	**7,230**	**9,530**	**7.5**
cis-1,3-Dichloropropene	10061-01-5	µg/L	5.3	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
Dibromochloromethane	124-48-1	µg/L	34	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
Dibromomethane	74-95-3	µg/L	380	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
Dichlorodifluoromethane	75-71-8	µg/L	20,000	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
Ethylbenzene	100-41-4	µg/L	700	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	**12.4**	0.75 U
Hexachlorobutadiene	87-68-3	µg/L	20	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
Isopropylbenzene	98-82-8	µg/L	10,000	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	**0.36 J**	**0.50 J**	0.75 U
m,p-Xylene	179601-23-1	µg/L	10,000**	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	**3.8**	1.5 U
Methylene chloride	75-09-2	µg/L	5	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	**6,000**	0.75 U
Naphthalene	91-20-3	µg/L	2,000	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	**1.4**	0.75 U
n-Butylbenzene	104-51-8	µg/L	4,100	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
n-Propylbenzene	103-65-1	µg/L	4,100	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
o-Xylene	95-47-6	µg/L	10,000**	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	**0.79 J**	**2.5**	0.75 U
sec-Butylbenzene	135-98-8	µg/L	4,100	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
Styrene	100-42-5	µg/L	100	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
tert-Butylbenzene	98-06-6	µg/L	4,100	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
Tetrachloroethene	127-18-4	µg/L	5	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	**10.7**	**20.8**	0.75 U
Toluene	108-88-3	µg/L	1,000	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	**0.89 J**	**9.7**	0.75 U
trans-1,2-Dichloroethene	156-60-5	µg/L	100	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	**0.50 J**	**43.8**	**105**	0.75 U
trans-1,3-Dichloropropene	10061-02-6	µg/L	29	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
Trichloroethene	79-01-6	µg/L	5	**27.7**	**16.4**	**8.1**	**3.1**	**14.7**	**86.1**	**6,000**	**2,190**	**448**
Trichlorofluoromethane	75-69-4	µg/L	31,000	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
Vinyl chloride	75-01-4	µg/L	2	0.75 U	0.75 U	0.75 U	0.75 U	**0.84 J**	**2.6**	**768**	**3,060**	**2.2 J**
Method: SW8270SIM												
1,4-Dioxane	123-91-1	ug/L	9.1	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

Blue highlighting indicates concentrations above the MCL/MSC/PCL

MCL/MSC - Maximum Contaminant Limit/Medium-Specific Concentrations/Protective Concentration Level.PCL - Texas Risk Reduction Program (TRRP) Tier 1 Groundwater Residential Protective Concentration Level

NA - Not Analyzed/Not Applicable; NV - No value

µg/L - micrograms per liter; mg/L - milligrams per liter

a - duplicate sample

J - Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.

UJ - The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

U - Undetected: The analyte was analyzed for, but not detected at the limit of detection presented.

UB - considered a non-detect due to blank contamination

*Perchlorate, manganese, and nickel compared to the PCL

** Value is for total xylenes

PCL - Texas Risk Reduction Program (TRRP) Tier 1 Groundwater Residential Protective Concentration Level

Table 7. Weekly Perchlorate Sample Results
2nd Quarter 2024 Groundwater Treatment Plant Report
Longhorn Army Ammunition Plant

Sample Identification	Lab Package	Date Sampled	Sample Location	Effluent Discharge Point	Harrison Bayou Maximum Allowable Daily Discharge Perchlorate Concentration (µg/L)	INF Pond Discharge Criteria for Perchlorate (µg/L)	Effluent Limitation for Discharge (µg/L)		Influent Perchlorate (6850)	Effluent Perchlorate (6850)	Does Concentration Meet Discharge Limit? (Yes/No)	No Daily Maximum Concentration		
							Daily Average Concentration	Daily Maximum Concentration	Result (µg/L)	Result (µg/L) BIX/AIX		Ammonia as N (350.3) (mg/L)	Ortho-Phosphate (365.3) (mg/L)	Organic Carbon (415.1) (mg/L)
LH18/24-SP650_040224 BIX/AIX (Weekly)	HS24040221	4/2/2024	TK-650	INF Pond	589	17	278	589	NA	**3.37/0.196**	Yes	**46**	**3.65**	**3.76**
LH18/24-SP650_040224_Between (Weekly)	HS24040221	4/2/2024	TK-650	INF Pond	589	17	278	589	NA	**0.0640 J**	NA	--	--	--
LH18/24-SP650_041024_BIX/AIX (Weekly)	HS24040798	4/10/2024	TK-650	INF Pond	589	17	278	589	NA	<0.0500 U/<0.0500 U	Yes	**21**	**5.58 J**	**39.5**
LH18/24-SP650_041024_BIX/AIX (Monthly)	HS24040784	4/10/2024	TK-650	INF Pond	--	--	0.1	589	**10,400**	0.0500 U	NA	--	--	--
LH18/24-SP650_041724_BIX/AIX (Weekly)	HS24041274	4/17/2024	TK-650	INF Pond	589	17	278	589	NA	**0.421/0.0959 J**	Yes	**18**	**6.35**	**17.9 J**
LH18/24-SP650_042424_BIX/AIX (Weekly)	HS24041715	4/24/2024	TK-650	INF Pond	589	17	278	589	NA	**3.03**/0.0500 U	Yes	**25**	**4.80**	**13.90**
LH18/24-SP650_050124_BIX/AIX (Weekly)	HS24050103	5/1/2024	TK-650	INF Pond	589	17	278	589	NA	**1.61/0.0819 J**	Yes	**11**	**4.40**	**4.39**
LH18/24-SP650_050824_BIX/AIX (Weekly)	HS24050528	5/8/2024	TK-650	INF Pond	589	17	278	589	NA	**1.91/0.343**	Yes	**25**	**5.55**	**5.12**
LH18/24-SP650_050824_AIX (Monthly)	HS24050531	5/8/2024	TK-650	INF Pond	--	--	0.1	589	**24,100**	**0.275**	Yes	--	--	--
LH18/24-SP650_051424_BIX/AIX (Weekly)	HS24050826	5/14/2024	TK-650	INF Pond	589	17	278	589	NA	**43.0/11.7**	Yes	**1.9**	**8.20**	**6.10**
LH18/24-SP650_052124_BIX/AIX (Weekly)	HS24051271	5/21/2024	TK-650	INF Pond	589	17	278	589	NA	**9.41 J/0.150 J**	Yes	**23**	**8.90**	**16.9**
LH18/24-SP650_052124_AIX (Quarterly)	HS24051276	5/21/2024	TK-650	INF Pond	--	--	--	--	**21,000**	**0.977**	Yes	--	--	--
LH18/24-SP650_061224_BIX/AIX (Weekly)	HS24060770	6/12/2024	TK-650	INF Pond	589	17	278	589	NA	**0.0575 J/** <0.0500 U	Yes	**34**	**6**	**22.3**
LH18/24-SP650_061824_BIX/AIX (Weekly)	HS24061564	6/18/2024	TK-650	INF Pond	589	17	278	589	NA	**1.17/**<0.0500 U	Yes	**29**	**6.40**	**40.90**
LH18/24-SP650_062524_BIX/AIX (Weekly)	HS24061572	6/25/2024	TK-650	INF Pond	589	17	278	589	NA	**0.718/0.0444 J**	Yes	**28.0**	**2.17**	**14.40**

Notes:

Texas Risk Reduction Program (TRRP) Tier 1 Groundwater Residential Protective Concentration Level (PCL)

SP140 samples are influent samples.

µg/L - micrograms per liter

J - Estimated concentration between the detection limit and limit of quantitation and/or due to quality control discrepancies

U - Non detect reported to the limit of detection

Detected analytes are in bold.

NA - not applicable

BIX - before ion exchange/AIX - after ion exchange

mg/L - milligrams per liter

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Table 8. Monthly GWTP Analytical Sampling Results for April 2024
2nd Quarter 2024 Groundwater Treatment Plant Report
Longhorn Army Ammunition Plant

				Sample Location	EFFLUENT - Monthly		INFLUENT - Monthly*		EFFLUENT - Biweekly		EFFLUENT - Biweekly		Does Concentration Meet Effluent Discharge Limits? (Yes/No)
				Sample Identification	LH18/24-SP650_041024		LH18/24-SP140_041024		LH18/24-SP650_040224		LH18/24-SP650_041724		
				Lab Package	HS24040784		HS24040784		HS24040371		HS24041309		
				Sample Date	4/10/2024		4/10/2024		4/2/2024		4/17/2024		
				Sample Type	GRAB		GRAB		GRAB		GRAB		
	Effluent Limitation for Discharge (µg/L) per Table 2 of ROD												
	Daily Average Concentration	Daily Maximum Concentration	INF Pond MCL		Result	DVQ	Result	DVQ	Result	DVQ	Result	DVQ	
VOLATILES	**µg/L**	**µg/L**	**µg/L**		**µg/L**		**µg/L**		**µg/L**		**µg/L**		
1,1,1-Trichloroethane	3,417	7,230	200		< 1.0	U	NA		< 1.0	U	< 0.50	U	Yes
1,1,2-Trichloroethane	102.5	216.9	5		< 1.0	U	NA		< 1.0	U	< 0.50	U	Yes
1,1-Dichloroethane	6,633	14,032	NV		< 1.0	U	NA		< 1.0	U	< 0.50	U	Yes
1,1-Dichloroethene	119	253	7		< 1.0	U	NA		< 1.0	U	< 0.50	U	Yes
1,2-Dichloroethane	85	181	5		< 1.0	U	NA		< 1.0	U	< 0.50	U	Yes
1,2-Dichloropropane	NV	NV	5		< 1.0	U	NA		< 1.0	U	< 0.50	U	Yes
Acetone	1,132	2,395	NV		< 1.0	U	NA		< 1.0	U	< 1.0	U	Yes
Benzene	85	181	5		< 1.0	U	NA		< 1.0	U	< 0.50	U	Yes
Carbon Tetrachloride	85	181	5		< 1.0	U	NA		< 1.0	U	< 0.50	U	Yes
Chlorobenzene	22,300	47,180	100		< 1.0	U	NA		< 1.0	U	< 0.50	U	Yes
Chloroform	1,708	3,615	NV		< 1.0	U	NA		< 1.0	U	< 0.50	U	Yes
cis-1,2-Dichloroethene	NV	NV	70		**1.6**	**J**	NA		**1.4**		< 0.50	U	Yes
Ethylbenzene	26,954	57,025	700		< 1.0	U	NA		< 1.0	U	< 0.50	U	Yes
m,p-Xylenes	39.5	83.6	NV		< 1.0	U	NA		< 1.0	U	< 1.0	U	Yes
Methylene Chloride	803	1,699	5		< 1.0	U	NA		< 1.0	U	< 0.50	U	Yes
o-Xylene	39.5	83.6	NV		< 1.0	U	NA		< 1.0	U	< 0.50	U	Yes
Styrene	2,829	5,987	100		< 1.0	U	NA		< 1.0	U	< 0.50	U	Yes
Tetrachloroethene	85.4	180.7	5		< 1.0	U	NA		< 1.0	U	< 0.50	U	Yes
Toluene	1,980	4,189	10		< 1.0	U	NA		< 1.0	U	< 0.50	U	Yes
Trichloroethene	85	181	5		**0.37**	**J**	NA		**0.23**	J	< 0.50	U	Yes
Vinyl Chloride	34	72	2		< 1.0	U	NA		< 1.0	U	< 0.50	U	Yes
ANIONS	**mg/L**	**mg/L**	**mg/L**		**mg/L**		**mg/L**		**mg/L**		**mg/L**		
Chloride	NV	NV	NV		NA		NA		**1,120**		**996**		NA
Sulfate	NV	NV	NV		NA		NA		**38.9**		**30.7**		NA
PERCHLORATE	**µg/L**	**µg/L**	**µg/L**		**µg/L**		**µg/L**		**µg/L**		**µg/L**		
Perchlorate**	278	589	17		< 0.0500	U	**10,400**		NA		NA		Yes
METALS	**mg/L**	**mg/L**	**mg/L**		**mg/L**		**mg/L**		**mg/L**		**mg/L**		
Hexavalent Chromium	0.058	0.124	NV		< 0.0100	U	< 0.01000	U	NA		NA		Yes
Barium	1	2	2		**0.175**		NA		NA		NA		Yes
Lead	0.0022	0.0046	0.015		NA	U	NA		NA		NA		Yes
Selenium	0.0057	0.0120	0.05		< 0.00250	U	< 0.00250	U	NA		NA		Yes
Silver	0.0014	0.0030	0.1		< 0.000500	U	< 0.000500	U	NA		NA		Yes
SEMI-VOLATILES	**µg/L**	**µg/L**	**µg/L**		**µg/L**		**µg/L**		**µg/L**		**µg/L**		
1,4-Dioxane***	NV	134.2	NV		**0.18**		NA		NA		NA		Yes

Notes:

µg/L - micrograms per liter

DVQ - data validation qualifier

GWTP - Groundwater Treatment Plant

U - Non detect reported to the limit of detection

mg/L - milligrams per liter

J - estimated concentration between the detection limit and limit of quantitation and/or due to quality control discrepancy

*Influent sample not compared to discharge limits

**-perchlorate is also collected weekly and reported on the Weekly Results Table

*** Calculated Effluent Limit

Grab samples are compared to the daily maximum

ROD - Record of Decision

NA - not applicable or not analyzed

NV - No value

Bold Values - detection

MCL - Maximum Contaminant Level

INF - Intermediate-Range Nuclear Forces Treaty

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Table 9. Monthly GWTP Analytical Sampling Results for May 2024
2nd Quarter 2024 Groundwater Treatment Plant Report
Longhorn Army Ammunition Plant

			Sample Location	EFFLUENT - Monthly		INFLUENT - Monthly*		EFFLUENT - Biweekly		EFFLUENT - Biweekly		Does Concentration Meet Effluent Discharge Limits? (Yes/No)
			Sample Identification	LH18/24-SP650_050824		LH18/24-SP140_050824		LH18/24-SP650_050124		LH18/24-SP650_051424		
			Lab Package	HS24050531		HS24050529		H24050146		HS24050838		
			Sample Date	5/8/2024		5/8/2024		5/1/2024		5/14/2024		
			Sample Type	GRAB		GRAB		GRAB		GRAB		
	Effluent Limitation for Discharge (µg/L) per Table 2 of ROD											
	Daily Average Concentration	Daily Maximum Concentration	INF Pond MCL	Result	DVQ	Result	DVQ	Result	DVQ			
VOLATILES	**µg/L**	**µg/L**	**µg/L**	**µg/L**		**µg/L**		**µg/L**				
1,1,1-Trichloroethane	3,417	7,230	200	< 1.0	U	NA		< 1.0	U	< 1.0	U	Yes
1,1,2-Trichloroethane	102.5	216.9	5	< 1.0	U	NA		< 1.0	U	< 1.0	U	Yes
1,1-Dichloroethane	6,633	14,032	NV	< 1.0	U	NA		< 1.0	U	< 1.0	U	Yes
1,1-Dichloroethene	119	253	7	< 1.0	U	NA		< 1.0	U	< 1.0	U	Yes
1,2-Dichloroethane	85	181	5	< 1.0	U	NA		< 1.0	U	< 1.0	U	Yes
1,2-Dichloropropane	NV	NV	5	< 1.0	U	NA		< 1.0	U	< 1.0	U	Yes
Acetone	1,132	2,395	NV	< 1.0	U	NA		< 1.0	U	< 1.0	U	Yes
Benzene	85	181	5	< 1.0	U	NA		< 1.0	U	< 1.0	U	Yes
Carbon Tetrachloride	85	181	5	< 1.0	U	NA		< 1.0	U	< 1.0	U	Yes
Chlorobenzene	22,300	47,180	100	< 1.0	U	NA		< 1.0	U	< 1.0	U	Yes
Chloroform	1,708	3,615	NV	< 1.0	U	NA		< 1.0	U	< 1.0	U	Yes
cis-1,2-Dichloroethene	NV	NV	70	**3.1**	**J+**	NA		**2.0**		**1.9**		Yes
Ethylbenzene	26,954	57,025	700	< 1.0	U	NA		< 1.0	U	< 1.0	U	Yes
m,p-Xylenes	39.5	83.6	NV	< 1.0	U	NA		< 1.0	U	< 1.0	U	Yes
Methylene Chloride	803	1,699	5	< 1.0	U	NA		< 1.0	U	< 1.0	U	Yes
o-Xylene	39.5	83.6	NV	< 1.0	U	NA		< 1.0	U	< 1.0	U	Yes
Styrene	2,829	5,987	100	< 1.0	U	NA		< 1.0	U	< 1.0	U	Yes
Tetrachloroethene	85.4	180.7	5	< 1.0	U	NA		< 1.0	U	< 1.0	U	Yes
Toluene	1,980	4,189	10	< 1.0	U	NA		< 1.0	U	< 1.0	U	Yes
Trichloroethene	85	181	5	**0.72**	**J**	NA		< 1.0	U	< 1.0	U	Yes
Vinyl Chloride	34	72	2	< 1.0	U	NA		< 1.0	U	< 1.0	U	Yes
ANIONS	**mg/L**	**mg/L**	**mg/L**	**mg/L**		**mg/L**		**mg/L**				
Chloride	NV	NV	NV	NA		NA		**872**		**833**		NA
Sulfate	NV	NV	NV	NA		NA		**40.9**		**51.6**		NA
PERCHLORATE	**µg/L**	**µg/L**	**µg/L**	**µg/L**		**µg/L**		**µg/L**		**µg/L**		
Perchlorate**	278	589	17	**0.275**		**24,100**		NA		NA		Yes
METALS	**mg/L**	**mg/L**	**mg/L**	**mg/L**		**mg/L**		**mg/L**		**mg/L**		
Hexavalent Chromium	0.058	0.124	NV	< 0.01000	U	< 0.01000	UJ	NA		NA		Yes
Barium	1	2	2	**0.215**		NA		NA		NA		Yes
Lead	0.0022	0.0046	0.015	< 0.00125	U	NA		NA		NA		Yes
Selenium	0.0057	0.0120	0.05	< 0.00250	U	< 0.00250	U	NA		NA		Yes
Silver	0.0014	0.0030	0.1	< 0.000500	U	< 0.000500	U	NA		NA		Yes
SEMI-VOLATILES	**µg/L**	**µg/L**	**µg/L**	**µg/L**		**µg/L**		**µg/L**		**µg/L**		
1,4-Dioxane***	NV	134.2	NV	**1.2**		NA		NA		NA		Yes

Notes:

µg/L - micrograms per liter

DVQ - data validation qualifier

GWTP - Groundwater Treatment Plant

U - Non detect reported to the limit of detection

mg/L - milligrams per liter

J+ - concentration biased high

Bold values - detection

*Influent sample not compared to discharge limits

**-perchlorate is also collected weekly and reported on the Weekly Results Table

*** Calculated Effluent Limit

Grab samples are compared to the daily maximum

ROD - Record of Decision

NA - not applicable or not analyzed

NV - No value

MCL - Maximum Contaminant Level

INF-Intermediate-Range Nuclear Forces Treaty

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Table 10. Monthly GWTP Analytical Sampling Results for June 2024
2nd Quarter 2024 Groundwater Treatment Plant Report
Longhorn Army Ammunition Plant

				Sample Location	**EFFLUENT - Biweekly**		**EFFLUENT - Biweekly**		**Does Concentration Meet Effluent Discharge Limits? (Yes/No)**
				Sample Identification	**LH18/24-SP650_061224**		**LH18/24-SP650_062524**		
				Lab Package	**HS24060781**		**HS24061581**		
				Sample Date	**6/12/2024**		**6/25/2024**		
				Sample Type	**GRAB**		**GRAB**		
	Effluent Limitation for Discharge (µg/L) per Table 2 of ROD								
	Daily Average Concentration	**Daily Maximum Concentration**	**INF Pond MCL**		**Result**	**DVQ**	**Result**	**DVQ**	
VOLATILES	**µg/L**	**µg/L**	**µg/L**		**µg/L**		**µg/L**		
1,1,1-Trichloroethane	3,417	7,230	200		< 1.0	U	< 0.50	U	Yes
1,1,2-Trichloroethane	102.5	216.9	5		< 1.0	U	< 0.50	U	Yes
1,1-Dichloroethane	6,633	14,032	NV		< 1.0	U	< 0.50	U	Yes
1,1-Dichloroethene	119	253	7		< 1.0	U	< 0.50	U	Yes
1,2-Dichloroethane	85	181	5		< 1.0	U	< 0.50	U	Yes
1,2-Dichloropropane	NV	NV	5		< 1.0	U	< 1.0	U	Yes
Acetone	1,132	2,395	NV		< 1.0	U	< 0.50	U	Yes
Benzene	85	181	5		< 1.0	U	< 0.50	U	Yes
Carbon Tetrachloride	85	181	5		< 1.0	U	< 1.0	U	Yes
Chlorobenzene	22,300	47,180	100		< 1.0	U	< 0.50	U	Yes
Chloroform	1,708	3,615	NV		< 1.0	U	< 0.50	U	Yes
cis-1,2-Dichloroethene	NV	NV	70		**1.7**		**2.4**		Yes
Ethylbenzene	26,954	57,025	700		< 1.0	U	< 0.50	U	Yes
m,p-Xylenes	39.5	83.6	NV		< 1.0	U	< 1.0	U	Yes
Methylene Chloride	803	1,699	5		< 1.0	U	< 1.0	U	Yes
o-Xylene	39.5	83.6	NV		< 1.0	U	< 0.50	U	Yes
Styrene	2,829	5,987	100		< 1.0	U	< 0.50	U	Yes
Tetrachloroethene	85.4	180.7	5		< 1.0	U	< 0.50	U	Yes
Toluene	1,980	4,189	10		< 1.0	U	< 0.50	U	Yes
Trichloroethene	85	181	5		< 1.0	U	< 0.50	U	Yes
Vinyl Chloride	34	72	2		< 1.0	U	< 0.50	U	Yes
ANIONS	**mg/L**	**mg/L**	**mg/L**		**mg/L**		**mg/L**		
Chloride	NV	NV	NV		**860**		**776**		NA
Sulfate	NV	NV	NV		**39.0**		**24.4**		NA
PERCHLORATE	**µg/L**	**µg/L**	**µg/L**		**µg/L**		**µg/L**		
Perchlorate**	278	589	17		NA		NA		Yes
METALS	**mg/L**	**mg/L**	**mg/L**		**mg/L**		**mg/L**		
Hexavalent Chromium	0.058	0.124	NV		NA		NA		Yes
Barium	1	2	2		NA		NA		Yes
Lead	0.0022	0.0046	0.015		NA		NA		Yes
Selenium	0.0057	0.0120	0.05		NA		NA		Yes
Silver	0.0014	0.0030	0.1		NA		NA		Yes
SEMI-VOLATILES	**µg/L**	**µg/L**	**µg/L**		**µg/L**		**µg/L**		
1,4-Dioxane***	NV	134.2	NV		NA		NA		Yes

Notes:

µg/L - micrograms per liter **Bold value** = detection

DVQ - data validation qualifier

GWTP - Groundwater Treatment Plant

U - Non detect reported to the limit of detection

mg/L - milligrams per liter

J - estimated concentration between the detection limit and limit of quantitation and/or due to quality control discrepancy

**-perchlorate is also collected weekly and reported on the Weekly Results Table

*** Calculated Effluent Limit

Grab samples are compared to the daily maximum

ROD - Record of Decision

NA - not applicable or not analyzed

NV - No value

UJ - estimated non-detect due to quality control discrepancy

MCL - Maximum Contaminant Level

INF - Intermediate-Range Nuclear Forces Treaty

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Table 11. Quarterly GWTP Analytical Sampling Results
2nd Quarter 2024 Groundwater Treatment Plant Report
Longhorn Army Ammunition Plant

			Sample Location	EFFLUENT		INFLUENT*		Does Concentration Meet Discharge Limits? (Yes/No)
			Sample Identification	LH18/24-SP650_052124		LH18/24-SP140_052124		
			Lab Package	HS24051276		HS24051277		
			Sample Date	5/21/2024		5/21/2024		
			Sample Type	GRAB		GRAB		
	Effluent Limitation for Discharge (µg/L) per Protocol			Result	DVQ	Result	DVQ	
	Daily Average Concentration	Daily Maximum Concentration	INF Pond MCL					
VOLATILES	**µg/L**	**µg/L**	**µg/L**	**µg/L**		**µg/L**		
1,1,1-Trichloroethane	3,417	7,230	200	< 1.0 U	U	<25	U	Yes
1,1,2-Trichloroethane	102.5	216.9	5	< 1.0 U	U	<25	U	Yes
1,1-Dichloroethane	6,633	14,032	NV	< 1.0 U	U	<25	U	Yes
1,1-Dichloroethene	119	253	7	< 1.0 U	U	<25	U	Yes
1,2-Dichloroethane	85	181	5	< 1.0 U	U	<25	U	Yes
1,2-Dichloropropane	NV	NV	5	< 1.0 U	U	<25	U	Yes
Acetone	1,132	2,395	NV	< 1.0 U	U	<25	U	Yes
Benzene	85	181	5	< 1.0 U	U	<25	U	Yes
Carbon Tetrachloride	85	181	5	< 1.0 U	U	<25	U	Yes
Chlorobenzene	22,300	47,180	100	< 1.0 U	U	<25	U	Yes
Chloroform	1,708	3,615	NV	< 1.0 U	U	<25	U	Yes
cis-1,2-dichloroethene	NV	NV	70	**1.8**	J	**1,800**		Yes
Ethylbenzene	26,954	57,025	700	< 1.0 U	U	<25	U	Yes
m,p-Xylenes	39.5	83.6	NV	< 1.0 U	U	<25	U	Yes
Methylene Chloride	803	1,699	5	< 1.0 U	U	<25	U	Yes
o-Xylene	39.5	83.6	NV	< 1.0 U	U	<25	U	Yes
Styrene	2,829	5,987	100	< 1.0 U	U	<25	U	Yes
Tetrachloroethene	85.4	180.7	5	< 1.0 U	U	**38**	U	Yes
Toluene	1,980	4,189	10	< 1.0 U	U	<25	U	Yes
Trichloroethene	85	181	5	< 1.0 U	U	**2,800**		Yes
Vinyl Chloride	34	72	2	< 1.0 U	U	**72**		Yes
ANIONS	**mg/L**	**mg/L**	**mg/L**					
Chloride	NA	NA	NV	**988**		**378**		NA
Sulfate	NA	NA	NV	**40.1**		**63.5**		NA
PERCHLORATE	**µg/L**	**µg/L**	**µg/L**					
Perchlorate	278	589	17	**0.977**		NA		Yes
METALS	**mg/L**	**mg/L**	**mg/L**					
Aluminum	0.777	1.644	NV	**0.00654**	J	**0.0696**		Yes
Antimony	NV	NV	0.006	< 0.0100	U	< 0.0100	U	NA
Arsenic	0.365	0.772	0.01	< 0.0100	U	**0.000728**	J	Yes
Barium	1	2	2	**0.217**		**0.282**		Yes
Beryllium	NV	NV	0.004	< 0.0100	U	< 0.0100	U	NA
Cadmium	0.0016	0.0034	0.005	< 0.0100	U	< 0.0100	U	Yes
Calcium	NV	NV	NV	**21.8**		**56.1**		NA
Chromium	0.355	0.752	0.1	**0.000894**	J	**0.00131**	J	Yes
Cobalt	5.433	11.495	NV	< 0.0100	U	**0.00313**	J	Yes
Iron	1.132	2.395	NV	**0.0840**	J	**0.384**		Yes
Lead	0.0022	0.0046	0.015	< 0.0100	U	< 0.0100	U	Yes
Magnesium	NV	NV	NV	**10.5**		**39.9**		NA
Manganese	7.323	15.494	NV	**0.0470**		**0.347**		Yes
Nickel	0.087	0.184	NV	< 0.0100	U	**0.00750**		Yes
Potassium	NV	NV	NV	**2.07**		**1.06**		NA
Selenium	0.0057	0.012	0.05	< 0.0100	U	< 0.0100	U	Yes
Silver	0.0014	0.003	NV	**0.000378**	J	< 0.0100	U	Yes
Sodium	NV	NV	NV	**532**		**277**		NA
Thallium	NV	NV	NV	< 0.0100	U	< 0.0100	U	NA
Vanadium	1.698	3.592	NV	< 0.0100	U	**0.000811**	J	Yes
Zinc	0.146	0.31	NV	**0.00386**	J	**0.0117**		Yes

Table 11. Quarterly GWTP Analytical Sampling Results
2nd Quarter 2024 Groundwater Treatment Plant Report
Longhorn Army Ammunition Plant

			Sample Location	EFFLUENT		INFLUENT*		Does Concentration Meet Discharge Limits? (Yes/No)
			Sample Identification	LH18/24-SP650_052124		LH18/24-SP140_052124		
			Lab Package	HS24051276		HS24051277		
			Sample Date	5/21/2024		5/21/2024		
			Sample Type	GRAB		GRAB		
	Effluent Limitation for Discharge (µg/L) per Protocol			Result	DVQ	Result	DVQ	
	Daily Average Concentration	Daily Maximum Concentration	INF Pond MCL					
Mercury	NV	NV	0.002	< 0.000100	U	< 0.000100	U	NA
1,4-DIOXANE	**µg/L**	**µg/L**	**µg/L**					
1,4-Dioxane	NV	134.2	NV	**0.93**		**0.35**		Yes
CHEMICAL OXYGEN DEMAND (COD)	**mg/L**	**mg/L**	**mg/L**					
COD	NV	200	NV	**60.0**		**26.0**		Yes
OIL AND GREASE (O&G)	**mg/L**	**mg/L**	**mg/L**					
O&G	NV	15	NV	< 1.00	U	< 1.00	U	Yes

Notes:
µg/L - micrograms per liter
DVQ - data validation qualifier
Grab samples are compared to the daily maximum and composite samples to the daily average
* only Effluent sample is compared to discharge limits
J - Estimated concentration between the detection limit and limit of quantitation and/or due to quality control discrepancy
U - non detect and reported to the limit of detection
mg/L - milligrams per liter
GWTP - Groundwater Treatment Plant
NV - no value
INF - influent
MCL - Maximum Contaminant Level
NA - not applicable
Bold - detection

3 QUALITY CONTROL

This report summarizes the data for samples collected in April, May, and June of 2024. The samples were reviewed and validated in accordance with the guidelines in the *United States Environmental Protection Agency* (*USEPA) Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review* (USEPA, January 2017); *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review* (USEPA, January 2017); and the quality control criteria specified in the *Basewide Uniform Federal Policy - Quality Assurance Project Plan Longhorn Army Ammunition Plant* which is in Appendix C of the *Final Installation-Wide Work Plan for Longhorn Army Ammunition Plant Karnack, Texas* (Bhate, May 2018).

The purpose of the sampling program is to evaluate the effectiveness of the groundwater pump and treatment system, assess water quality within the LHAAP-18/24 ICT containment area, and assure compliance with the Interim Remedial Action (USACE, May 1995) and the Memorandum for Record - Development of Proposed Discharge Limits for Perchlorate for the Groundwater Treatment Plant (AECOM, May 2017). Quality control and quality assurance problems noted in the case narratives received from the laboratory are minor and do not affect the usability of the data for compliance at the GWTP. No sample results from the 2nd Quarter of 2024 were rejected due to quality control problems.

ALS Environmental analyzed the compliance samples collected from the GWTP. Independent data verification and validation was performed by the Bhate Project Chemist as described in the Quality Control Summary Report in **Appendix G.** The laboratory reports for the GWTP are included in **Appendix F.** Air monitoring data is presented in **Appendix H**.

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4 TREATED GROUNDWATER DISCHARGED

Reinjection of groundwater in ICT 6 and ICT 9 was discontinued as of 15 July 2012. The last reinjection occurred on 24 May 2012, immediately prior to the scrubber system malfunction which caused GWTP operation to cease temporarily.

Treated groundwater that met the Harrison Bayou Maximum Allowable Daily Discharge Perchlorate Concentration (589 µg/L) was discharged to the Harrison Bayou in accordance with the Protocol for Discharging GWTP Effluent (**Appendix I**). Although not a requirement, prior to discharge to the Harrison Bayou, treated groundwater was also processed through the IX vessels to ensure adequate perchlorate treatment. Approximately 401,551 gallons of treated water was discharged into the Harrison Bayou. There was no additional treated groundwater released to the INF pond. **Table 4** summarizes the daily volume of discharged groundwater from the GWTP to the INF Pond the approximate volumes discharged for the 2nd Quarter of 2024.

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5 AIR MONITORING

5.1 Summary of Air Monitoring Approach

Operation of the GWTP without air abatement was approved by the Texas Commission on Environmental Quality (TCEQ) and USEPA conditioned on collection of air monitoring data to determine the effect of GWTP operation on ambient air quality with respect to potential human health exposure risk. An Interim Air Monitoring Plan was developed and used to implement the air monitoring program in 2012. The air monitoring program included sampling emission concentrations from the air stripper, ambient air at the GWTP, and ambient air downwind of the GWTP. Collection of air data occurred weekly from September 2012 through September 2013, monthly from September 2013 through September 2014, and quarterly since September 2014. The sampling program includes use of Summa canisters and a photoionization detector (PID) to measure vapor phase concentrations. The air stripper emission sample is collected as a grab sample while the ambient air samples are collected as composite samples. The GWTP sample is collected over 8 hours to represent a workday and the downwind sample is collected over 24 hours to represent potential exposure to an off-site receptor[1]. The downwind sample is collected at the closest downwind property boundary based on prevailing wind direction.

PID data (after system calibration) are collected each time the GWTP is operated and serve as a real-time indicator of ambient air conditions at and downwind of the GWTP. Correlations between definitive analytical air data and PID measurements were established and a method to calculate contaminant concentrations from PID measurements was developed. A PID threshold of 0.4 parts per million by volume in ambient air was established, such that Summa canister measurements would occur when the PID threshold is exceeded.

The Summa canister samples are analyzed for VOCs in accordance with USEPA Method TO-15 from the *Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air – Second Edition* (EPA/625/R-96/010b), USEPA, January 1999. The PID measurements are collected after instrument calibration. The air sampling results are summarized and reported to the USEPA and TCEQ in the GWTP quarterly reports; however, the air results are reviewed immediately upon receipt for the potential presence of any exceedances of ambient air concentrations. **Appendix J** (**Tables 1** through **3**) includes a comparison of ambient air concentrations with TCEQ Air Monitoring Comparison Values (AMCVs) or the short-term Effects Screening Levels (ESLs) for chemicals with no published AMCVs, calculations of emission rates from the emission point, and a compilation of PID results and calibration records. The air

[1] Off-site receptor - Any recreational area, residence, commercial/industrial facility, or other normally occupied structures not used solely by the owner or operator of the facilities or the owner of the site upon which the facilities are located. Measurements of distances to determine compliance with this distance restriction must be taken toward structures that are in use as of the date that a notification is filed with the commission.

monitoring results to date indicate that all ambient air concentrations are lower than the AMCVs or ESLs. The stripper stack sample concentrations are used to calculate emission rates in pounds per hour (lbs/hr) and tons per year (tpy). The calculated emission rates in lbs/hr are then compared to the allowable emission rates per 30 Texas Administrative Code (TAC) Section (§)106.533(f)(1). The emission rates have been lower than the allowable emission rates to the conservatively-selected off-site receptor. The calculated emission rate in tpy is compared to the allowable limit of five tpy per chemical. All emission rates have been lower than the allowable emission rates.

The air monitoring results from the first few months of operation between September and November 2012 were compiled and submitted in a separate report (December 2012) (along with validated data) to TCEQ to demonstrate compliance with Texas Permit by Rule emission standards. Approval of the analytical results and concurrence that the site will continue to meet Title 30 TAC §106.533 without the use of air abatement using a catalytic oxidation system was obtained from the TCEQ via email on 22 February 2013.

On 18 February 2013, AECOM presented analysis of the approach applicable to obtaining a variance for operating the GWTP without air abatement equipment to the TCEQ and USEPA. The analysis indicated that the use of an Explanation of Significant Difference (ESD) was the appropriate approach for the site. Approval of use of an ESD was obtained from the USEPA via email on 21 March 2013. The ESD was developed, reviewed, and accepted by USEPA and TCEQ. The ESD was signed by the designated parties on 3 April 2014, and concurrence from the TCEQ was obtained in a letter dated 16 April 2014.

5.2 Air Monitoring Results for the 2nd Quarter of 2024

During the 2nd Quarter of 2024, air sampling was completed on 13 May 2024. The laboratory data package is presented in **Appendix H.** A summary of the air sampling results is presented in **Appendix J** (**Tables 1** and **2**). All results met the criteria described in Section 5.1.

5.2.1 Summa Canister Monitoring Results

Air sampling was conducted using Summa canisters on 13 May 2024. The samples were collected and analyzed as described in Section 5.1 and per the Interim Air Monitoring Plan (AECOM, August 2012). The analytical results were then compiled in spreadsheets where calculations were completed and comparisons to applicable criteria were made as described in Section 5.1.

5.2.1.1 Ambient Air Results

In May 2024, acetone; benzene; carbon disulfide; cis-1,2-Dichloroethene; trichloroethene; n-Hexane; toluene; propene (C3H6); dichlorodifluoromethane (CFC 12); ethanol; trichlorofluoromethane (CFC 11); and trichlorotrifluoroethane (CFC 113) were detected in the ambient air at the GWTP.

Compounds originating at the GWTP would be expected to have lower concentrations in the downwind sampling location than at the GWTP sampling location. However, the fact that the compounds acetone; benzene; carbon disulfide; n-Hexane; toluene; m,p-xylenes; o-xylene;

propene; CFC 12; ethanol; CFC 11; CFC 113; alpha-Pinene; and d-Limonene were detected in downwind ambient air, suggests that they are present in the ambient (background) air.

The ambient air results during the quarter met the ambient air criteria, as presented in **Table 1** within **Appendix J**.

5.2.1.2 Air Stripper Effluent Results

The VOCs present in groundwater that are removed via the air stripper include 1,1-DCE; 1,2-DCA; cis-1,2-DCE; MC; TCE; PCE; VC; CFC 12; and CFC 113. These compounds are frequently reported in groundwater at the site, except for CFC 113 which is not typically a groundwater analyte at LHAAP. The compound CFC 113 may be present in groundwater based on limited analysis conducted in December 2013, where it was detected in several wells. Many of the chemicals that are reported in ambient air are not detected in the air stripper effluent. This is likely because the reporting limit for the air stripper effluent is higher than the reporting limit for the ambient air samples or the source for some of these chemicals are extraneous to groundwater.

In May 2024, 1,1-DCA; 1,1-DCE; 1,2-DCA; acetone; benzene; chloroform; cis-1,2-DCE; MC; PCE; trans-1,2-dichloroethene; TCE; VC; n-hexane; toluene; ethylbenzene; m,p-xylenes; o-xylene; propene; CFC 12; ethanol; CFC 11; and CFC 113 were detected in air stripper effluent. The highest concentrations were for cis-1,2-DCE, TCE, and CFC 113. However, the air stripper effluent concentrations were below the emission criteria, as presented in **Table 2** within **Appendix J**.

5.2.2 PID Results

Along with collection of Summa canister air samples, PID measurements from the same sources/areas were collected and recorded. These simultaneous measurements allowed establishing a correlation between PID readings and VOC concentrations in the Summa canister air samples. Conversion from PID to compound concentrations was established by TCEQ in 30 TAC §106.533(h). The TCEQ equation allows use of a PID to determine individual compound concentrations if the distribution of chemicals in the ambient air is known or assumed. This allows the use of a PID as a tool to measure VOC concentrations and convert the PID results to estimates of compound concentrations. Ambient air PID measurements collected during this quarter were reported at 0.0 parts per million. No VOCs were detected at the GWTP ambient air or downwind PID locations. During 2nd Quarter of 2024, maximum VOC detections at the air stripper PID location ranged between 20.1 and 25.4 parts per million at the sampling event. The results of the PID readings collected during GWTP operations are presented in **Table 3** within **Appendix J**.

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6 COMMENTS AND RESPONSES

The 1st Quarter (January through March) 2024 GWTP Evaluation Report was submitted to TCEQ and USEPA on 30 July 2024. No edits were requested by TCEQ in their 10 December 2024 correspondence. EPA comments were received on 20 December 2024:

USEPA Comment 1: Section1, p. 1-1, 4th paragraph, 2nd sentence. The abbreviation "FBR" should be spelled out in this sentence because this is the first location where it is used in the main body of the report (e.g., "… and placing the fluidized bed reactor (FBR) into recycle mode.").

> **Response to USEPA Comment 1:** Concur. The abbreviation "FBR" is now defined in the first appearance of the main body of the text starting in the 2nd Quarter GWTP Evaluation Report.

USEPA Comment 2: Section 1, p. 1-1, 2nd paragraph, 1st sentence. Need to add the words "of" before "Quarter" and "the" before "LHAAP-17" (i.e., "During the 3rd Quarter **of** 2022 (July–September), **the** LHAAP-17 groundwater extraction system…").

> **Response to USEPA Comment 2**: Concur. This language will be corrected starting in the 2nd Quarter GWTP Evaluation Report.

USEPA Comment 3: Section 1, p. 1-1, 3rd paragraph, 1st sentence. It would be more accurate to state that the GWTP no longer received "influent" from LHAAP-16 rather than "flow" from the site (i.e., "As of September 2019, the GWTP no longer received **influent** from LHAAP-16…").

> **Response to USEPA Comment 3:** Concur. This language will be corrected starting in the 2nd Quarter GWTP Evaluation Report.

USEPA Comment 4: Section 1, p. 1-1, 3rd paragraph, 2nd sentence. It would be more accurate to state that the GWTP had previously received "groundwater" from eight LHAAP-16 wells rather than "flow" from the wells (i.e., "The GWTP had previously received **groundwater** from eight extraction wells installed at LHAAP-16…").

> **Response to USEPA Comment 4:** Concur. This language will be corrected starting in the 2nd Quarter GWTP Evaluation Report.

USEPA Comment 5: Section 1.1.1, p. 1-6, Bottom of bulleted list immediately preceding section 1.1.2. The bulleted list summarizing historical GWTP operations does not include activities for the third and fourth quarters of 2023.

> **Response to USEPA Comment 5:** Noted. Per discussions held during the November 2024 Monthly Managers Meeting, this section will no longer be presented in future GWTP reports. However, for completion, these historical activities are listed here:
>
> - In the 3rd Quarter of 2023, there were multiple power outages in July, August, and September due to heavy thunderstorms. However, power was restored in each situation resulting in minimal downtime.
> - Throughout the 3rd Quarter of 2023, the air compressor was used to air sparge the sand filter breaking up sediment that had accumulated in the pretreatment

system. To further assist with addressing the sediment build up in the sand filter, a new diaphragm pump was installed during the 4th Quarter of 2023.

USEPA Comment 6: Table 4, Body of Table. The last row of table 4 (p. 2-29) that should include totaled discharges for several columns is missing. The missing row is provided in the same table included in the Executive Summary (refer to p. xvii of table ES-1).

Response to USEPA Comment 6: Concur. The totaled discharges will be presented in both the executive summary table (Table ES-1) and Table 4 beginning in the 2nd Quarter GWTP Evaluation Report.

USEPA Comment 7: Section 2.4.1, p. 2-4, 1st paragraph, last sentence. The less than symbol ("<") or the words "less than" should be inserted before the non-detect/U-qualified value (e.g., "The effluent perchlorate samples collected AIX ranged from <0.0500 U (non-detect) ug/L to 1.97 ug/L…").

Response to USEPA Comment 7: Concur. This language will be corrected starting in the 2nd Quarter GWTP Evaluation Report.

USEPA Comment 8: Fig. 2-1, X-axis label. The quarter/year label for the last data point is incorrect—the x-axis label for this data point should be "1st Q 2024" rather than "4th Q 2024."

Response to USEPA Comment 8: Concur. This will be corrected starting in the 2nd Quarter GWTP Evaluation Report.

USEPA Comment 9: Section 5.2.1.1, p. 5-2, 1st paragraph, 1st sentence. This sentence is partially incorrect because the VOC acetone was not detected in the ambient air at the GWTP (refer to 4th row of table 1 in appendix G).

Response to USEPA Comment 9: Concur. Acetone was not detected in the ambient air at the GWTP during the 1st Quarter 2024 GWTP sampling event.

USEPA Comment 10: Appendix G, table 1, Notes section below main body of table (second to last entry in notes section). The word "estimated" after "UJ-" is misspelled.

Response to USEPA Comment 10: Concur. This will be corrected starting in the 2nd Quarter GWTP Evaluation Report.

USEPA Comment 11: Appendix G, table 2, Notes section below main body of table (last entry in notes section). The word "estimated" after "UJ-" is misspelled.

Response to USEPA Comment 11: Concur. This will be corrected starting in the 2nd Quarter GWTP Evaluation Report.

USEPA Comment 12: Appendix B, figs. B-1 and B-2, Map portion of the figures. It seems reasonable to suggest that a potentially more reasonable/"realistic" interpretation can be made regarding the positioning of the 170 ft contour lines situated along the southeastern boundary of the IRP area. In this area, the potentiometric-surface map features 170 ft contour lines that are centered around wells MW-7, MW-8, and MW-9. A review of the groundwater-level elevations in the area suggests that a more plausible approach would be to extend the "primary"

170 ft contour line westward, thereby resolving/eliminating the three "bull's-eye" contours surrounding these three wells.

> **Response to USEPA Comment 12:** Concur. Data from the 2nd Quarter 2024 GWTP Evaluation Report further demonstrates that moving the 170 ft contour line westward is more representative of the site conditions.

USEPA Comment 13: Appendix B, figs. B-2, Map portion of the figure. 1) The groundwater-level elevation for the contour immediately north of the IRP area is missing — the contour should be labeled with a "169.00" identifier. 2) A portion of this 169.00 ft contour located between wells 1824DPTMW01 and well C-06 is highly inferred and should be dashed. The recommendation to dash this contour also applies to the same 169.00 ft contour line depicted in figs. B-1 and B-3.

> **Response to USEPA Comment 13:** 1) Concur. Figures will be quality controlled to ensure that all contour lines are labelled starting in 2nd Quarter 2024 GWTP Evaluation Report. 2) Concur. Contours that are inferred will be dashed and identified as such in the legend starting in the 2nd Quarter 2024 GWTP Evaluation Report.

USEPA Comment 14: Appendix B, figs. B-1 to B-6, Map portion of the figures. Adjusting the size of the well symbols on the map to match (or more closely match) those in the legend would greatly facilitate the reader's identification of the well type. Currently, it is difficult to determine the type of well on printed hardcopies, even after enlarging the figures to an 11 x 14" size.

> **Response to USEPA Comment 14:** Concur. Size of well symbols will be increased to match the size presented in the legend starting in the 2nd Quarter 2024 GWTP Evaluation Report.

Per discussions held during the November 2024 Monthly Managers Meeting, the managers agreed to change from a quarterly reporting to a semiannual report, which would contain the contents of two quarters of groundwater treatment plant operation data and one semiannual LHAAP 18/24 sampling event. This 2nd Quarter GWTP Report will be the last quarterly groundwater treatment report, and the next report will contain results from the 3rd and 4th Quarters of 2024 GWTP results and the 4th Quarter of 2024 LHAAP 18/24 sampling event.

During discussions at the November 2024 Monthly Managers Meeting, the managers also agreed to reduce the frequency of collecting water level measurements from monitoring wells from monthly to quarterly. This edit will be incorporated into the semiannual reports starting in the 1st Semiannual 2025 GWTP Report.

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APPENDIX A
ICT LAYOUT AND GWTP PROCESS FLOW DIAGRAM

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0 100 200 400 Feet

N

Harrison Bayou

ICT-13G
ICT-13F
ICT-13E
ICT-13D
ICT-13C
ICT-13B
ICT-13A
ICT-12E
ICT-12D
ICT-12C
ICT-12B
ICT-12A
ICT-14A
ICT-14B
ICT-14C
ICT-14D
ICT-14E
ICT-7
ICT-5
ICT-6
ICT-1
ICT-2
ICT-3
ICT-4
ICT-10
ICT-11
EW-1
ICT-8
ICT-9

18WW17

LHAAP-24
LHAAP-18
LHAAP-39
LHAAP-17

Open Burning Pan 157
Open Burning Cage 155

33-X
35-X
37-X
21-X
27-X
22-X
22-X-1
20-X
24-X
25-X
41-X

Groundwater Treatment Plant

Ditch

SCUDDAY AVE
AVE "Q"
LONG POINT RD

Legend:
- Extraction Location
- Deactivated ICT Sump
- Injection Point – Inactive since July 2012
- HDPE — High Density Polyethylene
- Interception-Collection Trench (ICT) Location
- HDPE Liner Installed outside of the ICT
- Installation Restoration Program (IRP) Area
- Stream / Ditch Centerline
- Road Line
- 401 — Building Number
- 717 — Former Building Location and Number

PCIbhate

Quarterly Evaluation Report
Groundwater Treatment Plant
Longhorn Army Ammunition Plant, Karnack, Texas

PROJECT NO:	SCALE:	DATE:	DRAWN BY:
JVPCIBH.0001.0005.03	As Shown	10/2/2024	MRM

ICT Layout Map

Figure A-1

01290983

PROCESS WATER FROM SUMP COLLECTION

FLOW MONITORING METER FIT-140

GROUNDWATER FROM BURNING GROUNDS AND SITE 17

TK-140 EQUALIZATION 300,700 GAL.

FLOW MONITORING METER FIT-172

TK-200A ORP 5,900 GAL.

TK-200B pH 5,700 GAL.

TK-200C POLYMER 3,400 GAL.

POLYMER POTABLE WATER

TK-240 CLARIFIER 10,000 GAL.

METALS TREATMENT

TK-140 Sampling Spigot

TK-640 BACK WASH TANK

FL-290 SAND FILTER

TK-300 STRIPPER FEED TANK 22,800 GAL.

FLOW MONITORING METER FIT-322

VENT HEADER

TK-530 8,670 GAL.

TK-510B 8,670 GAL.

TK-510A 8,670 GAL.

DECANT

DECANT

FILTER PRESS MAKEUP WATER SOURCE

SAND FILTER BACKWASH WATER SOURCE

VENT TO ATMOSPHERE

RECYCLE

FILTER CAKE FOR DISPOSAL

BELT PRESS BFP-560

SOLIDS REMOVAL

COLLECTION FROM FLOOR DRAINS IN CONTAINMENT AREA AND FROM DECON PAD

SUMP

TO TK 140

ELECTRON DONOR SUBSTRATE TANK 55 GAL. DRUM

TK-103 NUTRIENT TANK

P-104

P-103

FILTER PRESS MAKEUP WATER

SAND FILTER BACKWASH WATER

CARBON FILTER

T-330 AIR STRIPPER

TK-630 EFFLUENT STORAGE 127,000 GAL.

P-175

FLOW MONITORING METER FIT-103

Recycle

Liquid Phase Adsorber Protect™ LM-36 Series

VOLATILE ORGANICS TREATMENT

P-101A

P-101B

T-101 FBR

TK-650 1,000 GAL.

P-641

P-642

TO INF POND

TO HARRISON BAYOU

TO IRRIGATION AT BURNING GROUNDS

PERCHLORATE TREATMENT

TK-650 Sampling Spigot

FLOW MONITORING METER FIT-686

NOTES:

GAL.	GALLON
TK or T	TANK
BFP	BELT FILTER PRESS
P	PUMP
FL	FILTER
FBR	FLUIDIZED BED REACTOR
I/X	ION EXCHANGE

Process Flow Diagram

Figure A-2

Quarterly Evaluation Report
Groundwater Treatment Plant
Longhorn Army Ammunition Plant, Karnack, Texas

DRAWN BY: MRM

DATE: 10/2/2024

SCALE: Not to Scale

PROJECT NO: JVPCIBH.0001.0005.03

PCIbhate

APPENDIX B
GROUNDWATER ELEVATION CONTOUR MAPS

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01290986

TUSCON AVE

TALVER AVE

LHAAP-35C (53)

18WW05
(166.48)

167.00

168.00

C-06
(168.36)

Harrison Bayou

C-05
(168.64)

18WW20
(168.34)

169.00

169.00

18CPTMW16
(169.76)

18CPTMW18
(169.29)

1824DPTMW07
(170.30)

170.00

18CPTMW19
(169.85)

BGPZ-6
(170.17)

125
(171.12)

18WW22
(169.49)

1824DPTMW03
(170.09)

1824DPTMW01
(169.45)

170.00

18WW08
(169.57)

AWD-4
(170.28)

MW-5
(169.88)

171.00

BGPZ-7
(168.65)

169.00

18WW25
(169.10)

MW-6
(169.77)

170.00

171.00

MW-4
(171.30)

170.00

1824DPTMW02
(170.03)

18CPTMW15
(169.34)

BGPZ-5
(170.58)

LHAAP-24

MW-3
(170.37)

109
(170.72)

18WW24
(169.09)

18CPTMW23
(169.72)

169.00

MW-11
(168.46)

BGPZ-4
(168.27)

170.00

169.00

BGPZ-8
(168.56)

1824DPTMW04
(170.27)

BGPZ-3
(169.15)

123
(172.16)

18CPTMW04
(173.12)

MW-1
(173.31)

170

BGPZ-11
(169.94)

MW-2
(171.93)

MW-21
(170.27)

MW-16
(169.88)

AWD-2
(172.17)

BGPZ-9
(170.08)

C-08
(170.79)

170.00

MW-12
(170.06)

18WW10
(168.64)

C-02
(170.07)

BGPZ-12
(Plugged)

AWD-3
(173.18)

18CPTMW24
(170.18)

MW-10
(169.67)

AWD-1
(172.52)

120
(171.22)

LHAAP-18

173.00

MW-22
(171.76)

101
(187.41)
(Not Used)

MW-17
(169.40)

169.00

BOBBY JONES RD.

BGPZ-2
(170.24)

MW-9
(170.71)

129
(172.29)

MW-23
(172.49)

170.00

BGPZ-10
(169.56)

1824DPTMW05
(172.40)

18CPTMW14
(171.49)

MW-18
(169.98)

172.00

MW-8
(170.93)

MW-7
(170.55)

LHAAP-39

126
(171.07)

Groundwater Treatment Plant

BGPZ-1
(177.80)
(Not Used)

171.00

MW-19
(170.05)

130
(170.92)

18CPTMW26
(165.57)
(Not Used)

102
(173.77)
(Not Used)

18CPTMW22R
(176.72)
(Not Used)

LHAAP-63

LHAAP-17

SCUDDAY AVE

171.00

MW-20
(174.40)
(Not Used)

17WW08
(171.09)

170.00

18WW14
(170.14)

C-09
(169.60)

AVE "Q"

LONG POINT RD

169.00

HAYSTACK RD.

C-07
(168.15)

LHAAP-19

0 75 150 300
Feet

Legend:

- Shallow Monitoring Well Location (inside ICTs)
- Shallow Monitoring Well Location (outside ICTs)
- Shallow Piezometer Location (inside ICTs)
- Shallow Piezometer Location (outside ICTs)
- (169.60) Potentiometric Surface Elevation in Feet Above Mean Sea Level
- Potentiometric Surface Contour (1' intervals) (Dashed Where Inferred)
- Indicator of a Closed Depression
- Direction of Groundwater Flow
- HDPE High Density Polyethylene
- Interception-Collection Trench (ICT) Location
- HDPE Liner Installed outside of the ICT
- Installation Restoration Program (IRP) Area
- Stream / Ditch Centerline
- Road Line

PCIbhate

Quarterly Evaluation Report 2nd Quarter (April - June) 2024
Groundwater Treatment Plant
Longhorn Army Ammunition Plant, Karnack, Texas

**Groundwater Potentiometric Surface Map
Shallow Zone (April 30, 2024) LHAAP-18/24**

Figure B-1

GIS User: mmorris ; File Path: Z:\Projects\VPCIBH\0001 LHAAP\005 GWTP\03\2024 Q2\Figure B-1.mxd 2/25/2025

01290987

TUSCON AVE

TALVER AVE

LHAAP-35C (53)

18WW05
(166.34)

167.00

168.00

C-06
(168.24)

Harrison Bayou

C-05
(168.73)

18WW20
(168.18)

169.00

169.00

18CPTMW16
(169.54)

18CPTMW18
(169.09)

1824DPTMW07
(169.96)

18CPTMW19
(169.71)

18WW22
(169.38)

1824DPTMW03
(169.91)

1824DPTMW01
(169.37)

18WW08
(169.42)

BGPZ-6
(169.97)

AWD-4
(170.14)

MW-5
(169.72)

MW-6
(169.58)

18WW25
(168.93)

BGPZ-5
(170.39)

18CPTMW15
(169.21)

125
(170.97)

169.00

BGPZ-7
(168.41)

170.00

171.00

MW-4
(171.08)

MW-3
(170.21)

1824DPTMW02
(169.94)

18WW24
(168.95)

169.00

BGPZ-4
(168.06)

109
(170.60)

170.00

18CPTMW23
(169.55)

LHAAP-24

MW-11
(168.38)

MW-16
(169.98)

123
(172.01)

18CPTMW04
(172.95)

170.00

169.00

BGPZ-8
(168.40)

1824DPTMW04
(170.10)

BGPZ-11
(169.77)

MW-1
(173.15)

MW-2
(171.79)

MW-21
(170.11)

BGPZ-9
(169.96)

BGPZ-3
(168.92)

AWD-2
(171.96)

18CPTMW24
(169.97)

C-08
(170.65)

MW-12
(170.18)

170.00

18WW10
(168.50)

C-02
(170.02)

120
(171.10)

BGPZ-12
(Plugged)

AWD-3
(173.05)

MW-10
(169.61)

172.00

173.00

101
(187.58)
(Not Used)

MW-22
(171.62)

AWD-1
(172.34)

MW-17
(169.33)

LHAAP-18

BGPZ-2
(170.10)

1824DPTMW05
(172.24)

MW-23
(172.34)

170.00

129
(172.06)

MW-9
(170.53)

169.00

BOBBY JONES RD.

BGPZ-10
(169.46)

MW-18
(169.91)

172.00

18CPTMW14
(171.32)

MW-8
(170.69)

LHAAP-39

MW-7
(170.35)

Groundwater Treatment Plant

171.00

BGPZ-1
(177.96)
(Not Used)

126
(170.88)

170.00

Unnamed Ditch

MW-19
(169.97)

130
(170.70)

102
(173.65)
(Not Used)

18CPTMW26
(165.38)
(Not Used)

18CPTMW22R
(176.64)
(Not Used)

MW-20
(174.33)
(Not Used)

LHAAP-63

LHAAP-17

SCUDDAY AVE

171.00

17WW08
(171.13)

170.00

18WW14
(170.02)

AVE "Q"

LONG POINT RD

C-09
(169.52)

169.00

C-07
(168.01)

HAYSTACK RD.

LHAAP-19

0 75 150 300
Feet

Legend:

- Shallow Monitoring Well Location (inside ICTs)
- Shallow Monitoring Well Location (outside ICTs)
- Shallow Piezometer Location (inside ICTs)
- Shallow Piezometer Location (outside ICTs)
- (170.88) Potentiometric Surface Elevation in Feet Above Mean Sea Level
- Potentiometric Surface Contour (1' intervals) (Dashed Where Inferred)
- Indicator of a Closed Depression
- Direction of Groundwater Flow
- HDPE High Density Polyethylene
- Interception-Collection Trench (ICT) Location
- HDPE Liner Installed outside of the ICT
- Installation Restoration Program (IRP) Area
- Stream / Ditch Centerline
- Road Line

PCIbhate

Quarterly Evaluation Report 2nd Quarter (April - June) 2024
Groundwater Treatment Plant
Longhorn Army Ammunition Plant, Karnack, Texas

Groundwater Potentiometric Surface Map
Shallow Zone (May 29, 2024) LHAAP-18/24

Figure B-2

GIS User: mmorris - File Path: Z:\Projects\VPFDBH\0001 LHAAP\005 GWTP\03\2024 Q2\Figure B-2.mxd 2/25/2025

01290988

TUSCON AVE
TALVER AVE
LHAAP-35C (53)
Harrison Bayou
18WW05 (167.28)
168.00
170.00
C-06 (170.22)
C-05 (170.69)
18WW20 (171.10)
18CPTMW16 (171.22)
1824DPTMW07 (170.81)
18CPTMW19 (173.02)
BGPZ-6 (170.87)
18WW22 (171.79)
18CPTMW18 (169.10)
1824DPTMW01 (169.26)
1824DPTMW03 (169.93)
18WW08 (171.72)
MW-5 (172.84)
125 (171.40)
AWD-4 (173.31)
BGPZ-7 (169.25)
18WW25 (170.84)
18CPTMW15 (172.46)
BGPZ-5 (171.55)
MW-4 (173.77)
1824DPTMW02 (170.58)
109 (171.40)
18WW24 (171.17)
BGPZ-4 (170.02)
MW-6 (172.37)
MW-3 (172.93)
172.00
18CPTMW23 (173.92)
MW-11 (169.96)
LHAAP-24
BGPZ-3 (171.86)
123 (173.40)
BGPZ-11 (170.66)
BGPZ-8 (169.23)
1824DPTMW04 (169.33)
MW-16 (172.57)
178.00
AWD-2 (174.12)
18CPTMW04 (178.45)
MW-1 (177.30)
MW-2 (174.31)
MW-21 (171.15)
BGPZ-9 (170.72)
C-08 (170.88)
C-02 (172.50)
MW-12 (172.71)
18WW10 (173.29)
120 (175.07)
BGPZ-12 (Plugged)
176.00
AWD-3 (175.88)
18CPTMW24 (170.47)
101 (190.62) (Not Used)
MW-10 (172.55)
MW-17 (172.51)
AWD-1 (177.12)
LHAAP-18
MW-22 (172.09)
BGPZ-2 (170.90)
MW-9 (173.58)
129 (174.64)
174.00
MW-23 (173.43)
BGPZ-10 (170.38)
1824DPTMW05 (173.86)
18CPTMW14 (171.64)
MW-18 (172.25)
MW-8 (173.80)
LHAAP-39
MW-7 (172.96)
126 (172.09)
MW-19 (171.99)
BGPZ-1 (179.77) (Not Used)
102 (177.03) (Not Used)
Groundwater Treatment Plant
Unnamed Ditch
130 (172.41)
18CPTMW26 (166.31) (Not Used)
MW-20 (178.19) (Not Used)
LHAAP-63
LHAAP-17
SCUDDAY AVE
17WW08 (171.79)
18CPTMW22R (183.93) (Not Used)
C-09 (171.14)
18WW14 (173.17)
AVE "Q"
LONG POINT RD
BOBBY JONES RD.
C-07 (169.03)
HAYSTACK RD.
LHAAP-19

0 75 150 300 Feet

Legend:
- Shallow Monitoring Well Location (inside ICTs)
- Shallow Monitoring Well Location (outside ICTs)
- Shallow Piezometer Location (inside ICTs)
- Shallow Piezometer Location (outside ICTs)
- (172.09) Potentiometric Surface Elevation in Feet Above Mean Sea Level
- Potentiometric Surface Contour (2' intervals) (Dashed Where Inferred)
- Indicator of a Closed Depression
- Direction of Groundwater Flow
- HDPE High Density Polyethylene
- Interception-Collection Trench (ICT) Location
- HDPE Liner Installed outside of the ICT
- Installation Restoration Program (IRP) Area
- Stream / Ditch Centerline
- Road Line

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Quarterly Evaluation Report 2nd Quarter (April - June) 2024
Groundwater Treatment Plant
Longhorn Army Ammunition Plant, Karnack, Texas

Groundwater Potentiometric Surface Map Shallow Zone (June 25, 2024) LHAAP-18/24

Figure B-3

GIS User: mmorris - File Path Z:\Projects\VPCIBH\0001 LHAAP\0005 GWTP\03\2024 Q2\Figure B-3.mxd 2/25/2025

01290989

TUSCON AVE

LHAAP-35C (53)

TALVER AVE

Harrison Bayou

18WW04
(166.96)

167.00

167.50

168.00

18WW19
(168.29)

168.50

169.00

18WW21
(168.36)

18CPTMW19SW
(169.43)

C-04A
(169.80)

C-04
(169.56)

18WW09
(169.62)

18CPTMW08SW
(169.68)

18WW18
(169.45)

C-03
(169.94)

18CPTMW08DW
(169.14)
(Not Used)

LHAAP-24

18CPTMW01SW
(170.79)
(Not Used)

1824DPTMW06
(169.73)

18CPTMW23SW
(169.64)

18WW06
(169.60)

18CPTMW01DW
(169.70)

18CPTMW07
(169.81)

18WW02
(169.70)

18CPTMW04SW
(169.62)

LHAAP-18

18WW03
(169.33)

18WW11
(168.59)

MW-13
(169.98)

172.50
172.00
171.50
171.00
170.50

18CPTMW06
(169.77)

MW-14
(172.79)

169.00

170.00

18CPTMW03SW
(169.63)

BOBBY JONES RD.

18CPTMW10DW
(169.65)

18CPTMW10SW
(169.79)

18CPTMW12SW
(169.73)

LHAAP-39

Groundwater Treatment Plant

169.50

18CPTMW12DW
(169.67)

Unnamed Ditch

18CPTMW22SW
(163.84)
(Not Used)

18CPTMW26SW
(169.88)

18CPTMW22DW
(169.75)

LHAAP-63

170.00

LHAAP-17

SCUDDAY AVE

C-01
(170.19)

170.50

18WW15
(170.53)

AVE "Q"

LONG POINT RD

169.50

C-10
(169.00)

HAYSTACK RD.

LHAAP-19

0 75 150 300
Feet

Legend:

- Wilcox Formation Monitoring Well Location
- (169.00) Potentiometric Surface Elevation in Feet Above Mean Sea Level
- Potentiometric Surface Contour (0.5' intervals)
- Direction of Groundwater Flow
- HDPE High Density Polyethylene
- Interception-Collection Trench (ICT) Location
- HDPE Liner Installed outside of the ICT
- Installation Restoration Program (IRP) Area
- Stream / Ditch Centerline
- Road Line

PCIbhate

Quarterly Evaluation Report 2nd Quarter (April - June) 2024
Groundwater Treatment Plant
Longhorn Army Ammunition Plant, Karnack, Texas

Groundwater Potentiometric Surface Map
Wilcox Zone (April 30, 2024) LHAAP-18/24

Figure B-4

GIS User: mmorris : File Path Z:\Projects\LVPCIBH\0001 LHAAP\0005 GWTP\03\2024 Q2\Figure B-4.mxd 2/25/2025

01290990

TUSCON AVE

LHAAP-35C (53)

TALVER AVE

Harrison Bayou

18WW04
(166.89)

167.00

167.50

18WW19
(168.13)

168.00

168.50

18WW21
(168.23)

169.00

18CPTMW19SW
(169.34)

18WW09
(169.51)

C-04A
(169.64)

C-04
(169.43)

18WW18
(169.31)

18CPTMW08SW
(169.51)

18CPTMW08DW
(168.97)
(Not Used)

C-03
(169.78)

LHAAP-24

18CPTMW23SW
(169.46)

1824DPTMW06
(169.86)

18CPTMW01SW
(170.61)
(Not Used)

18CPTMW01DW
(169.52)

18WW02
(169.55)

169.50

18CPTMW04SW
(169.49)

18CPTMW07
(169.59)

18WW06
(169.49)
(Not Used)

MW-14
(172.62)

LHAAP-18

18WW11
(168.47)

18WW03
(169.18)

MW-13
(170.13)

172.50
172.00
171.50
171.00
170.50
170.00

168.50

169.00

18CPTMW06
(169.60)

18CPTMW03SW
(169.46)

BOBBY JONES RD.

18CPTMW10DW
(169.46)
(Not Used)

18CPTMW10SW
(169.65)

Groundwater Treatment Plant

18CPTMW12SW
(169.56)

LHAAP-39

169.50

18CPTMW12DW
(169.53)

18CPTMW22SW
(163.69)
(Not Used)

18CPTMW26SW
(169.65)

18CPTMW22DW
(169.60)

Unnamed Ditch

LHAAP-63

LHAAP-17

SCUDDAY AVE

170.00

C-01
(170.06)

169.00

18WW15
(170.34)

AVE "Q"

LONG POINT RD

169.50

C-10
(168.92)

HAYSTACK RD.

LHAAP-19

0 75 150 300
Feet

Legend:

- Wilcox Formation Monitoring Well Location
- (168.92) Potentiometric Surface Elevation in Feet Above Mean Sea Level
- Potentiometric Surface Contour (0.5' intervals)
- Indicator of a Closed Depression
- Direction of Groundwater Flow
- HDPE High Density Polyethylene
- Interception-Collection Trench (ICT) Location
- HDPE Liner Installed outside of the ICT
- Installation Restoration Program (IRP) Area
- Stream / Ditch Centerline
- Road Line

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Quarterly Evaluation Report 2nd Quarter (April - June) 2024
Groundwater Treatment Plant
Longhorn Army Ammunition Plant, Karnack, Texas

**Groundwater Potentiometric Surface Map
Wilcox Zone (May 29, 2024) LHAAP-18/24**

Figure B-5

GIS User: mmorris : File Path Z:\Projects\VVPCBHA\0003 LHAAP\0005 GWTP\03\2024 Q2\Figure B-5.mxd 2/25/2025

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TUSCON AVE

LHAAP-35C (53)

TALVER AVE

Harrison Bayou

18WW04
(168.30)

168.50

169.00

169.50

18WW19
(170.01)

170.00

170.50

171.00

171.50

18WW21
(168.37)

18WW09
(171.86)

18CPTMW19SW
(172.19)

C-04A
(171.66)

C-04
(171.99)

18CPTMW08SW
(172.41)

18CPTMW08DW
(172.12)

18WW18
(171.62)

C-03
(171.92)

172.00

18CPTMW23SW
(172.25)

18CPTMW04SW
(172.10)

LHAAP-24

171.50

18CPTMW07
(172.00)

18WW02
(172.17)

18WW06
(172.33)

1824DPTMW06
(172.37)

MW-14
(175.76)

172.50

18CPTMW01DW
(171.14)

LHAAP-18

173.00

MW-13
(171.95)

175.50
175.00
174.50
174.00
173.50
173.00

18CPTMW01SW
(173.20)
(Not Used)

18CPTMW06
(171.95)

18WW03
(170.28)

18WW11
(173.18)

18CPTMW03SW
(172.17)

BOBBY JONES RD.

18CPTMW10DW
(172.08)

18CPTMW10SW
(172.15)

18CPTMW12SW
(171.96)

LHAAP-39

Groundwater Treatment Plant

18CPTMW12DW
(172.18)

18CPTMW22SW
(171.51)

18CPTMW26SW
(171.91)

18CPTMW22DW
(171.64)

Unnamed Ditch

LHAAP-63

C-01
(172.22)

LHAAP-17

SCUDDAY AVE

18WW15
(173.42)

AVE "Q"

LONG POINT RD

C-10
(170.49)

HAYSTACK RD.

LHAAP-19

0 75 150 300
Feet

Legend:

- Wilcox Formation Monitoring Well Location
- (170.49) Potentiometric Surface Elevation in Feet Above Mean Sea Level
- Potentiometric Surface Contour (0.5' intervals)
- Indicator of a Closed Depression
- Direction of Groundwater Flow
- HDPE High Density Polyethylene
- Interception-Collection Trench (ICT) Location
- HDPE Liner Installed outside of the ICT
- Installation Restoration Program (IRP) Area
- Stream / Ditch Centerline
- Road Line

PCIbhate

Quarterly Evaluation Report 2nd Quarter (April - June) 2024
Groundwater Treatment Plant
Longhorn Army Ammunition Plant, Karnack, Texas

Groundwater Potentiometric Surface Map
Wilcox Zone (June 25, 2024) LHAAP-18/24

Figure B-6

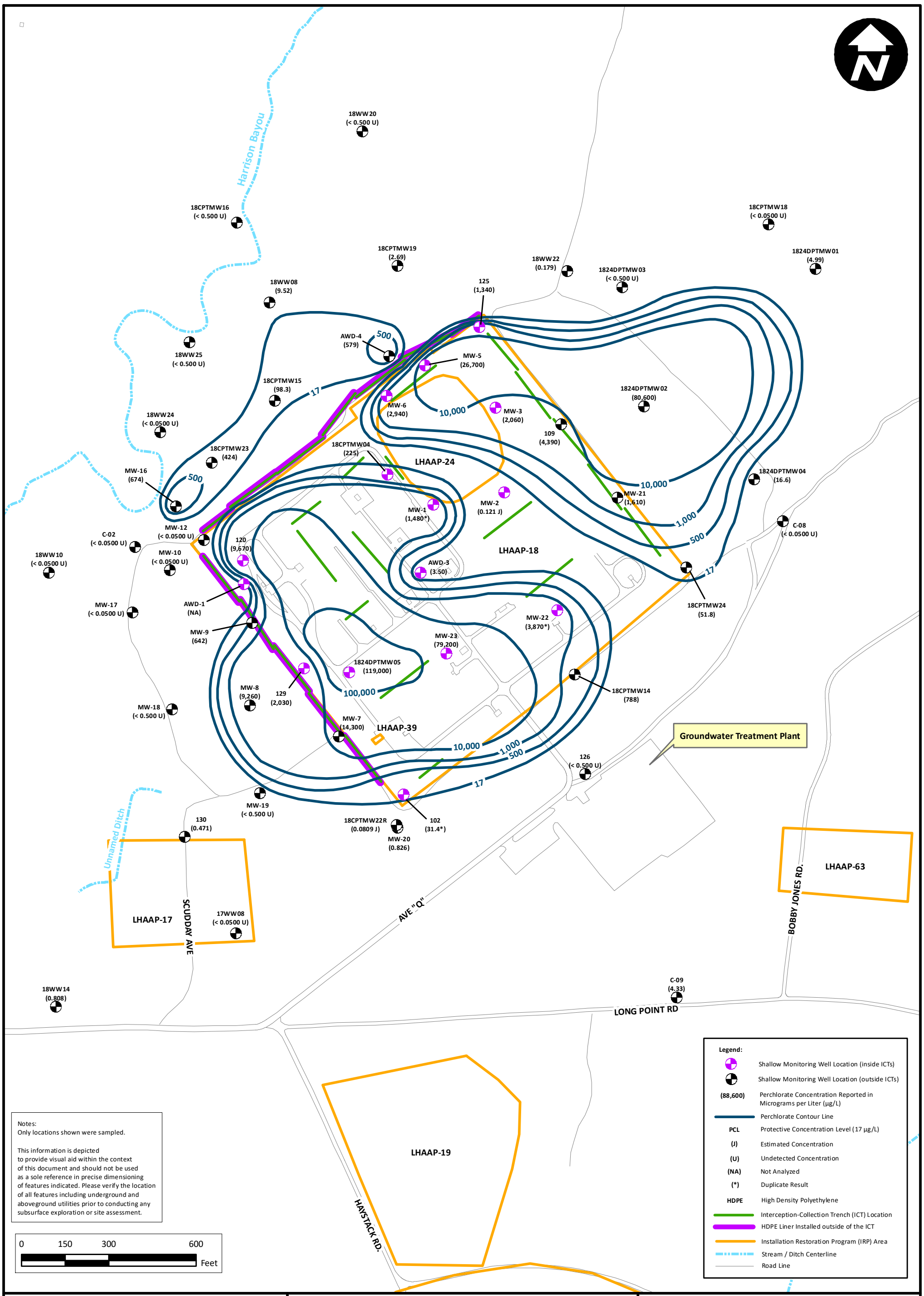
GIS User: mmorris - File Path Z:\Projects\VXPCIBH\00001 LHAAP\0005 GWTP\03\2024 Q2\Figure B-6.mxd 2/25/2025

APPENDIX C
LABORATORY ANALYTICAL RESULTS FOR LHAAP-18/24
(PROVIDED ELECTRONICALLY AS A SEPARATE FILE)

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APPENDIX D
ISOPLETH CONTOUR MAPS

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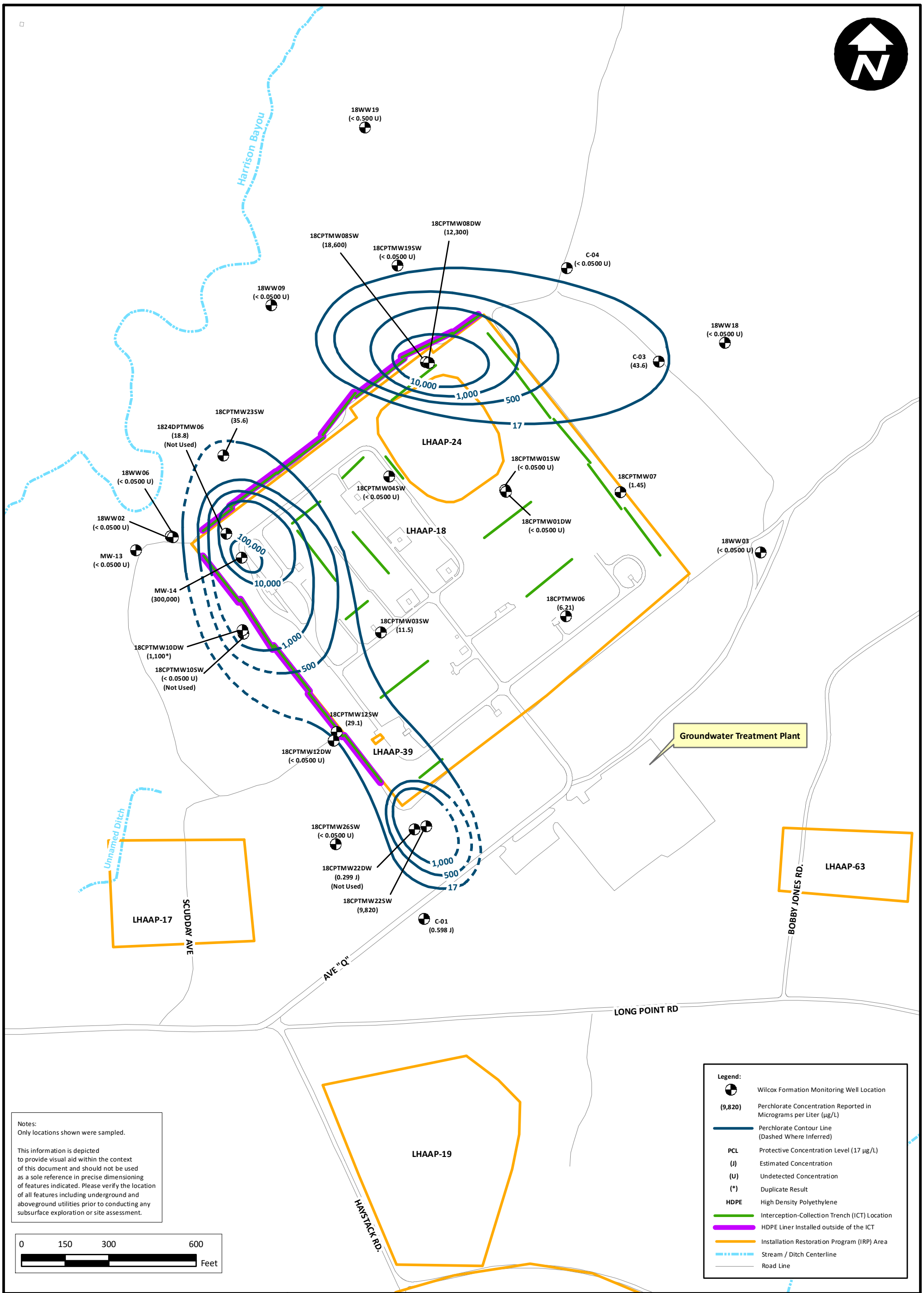
PCIbhate

Quarterly Evaluation Report 2nd Quarter (April - June) 2024
Groundwater Treatment Plant
Longhorn Army Ammunition Plant, Karnack, Texas

PROJECT NO:	SCALE:	DATE:	DRAWN BY:
JVPCIBH.0001.0005.03	As Shown	12/11/2024	MRM

Perchlorate Isopleth Contours in Shallow Zone (June 2024)

Figure D-1



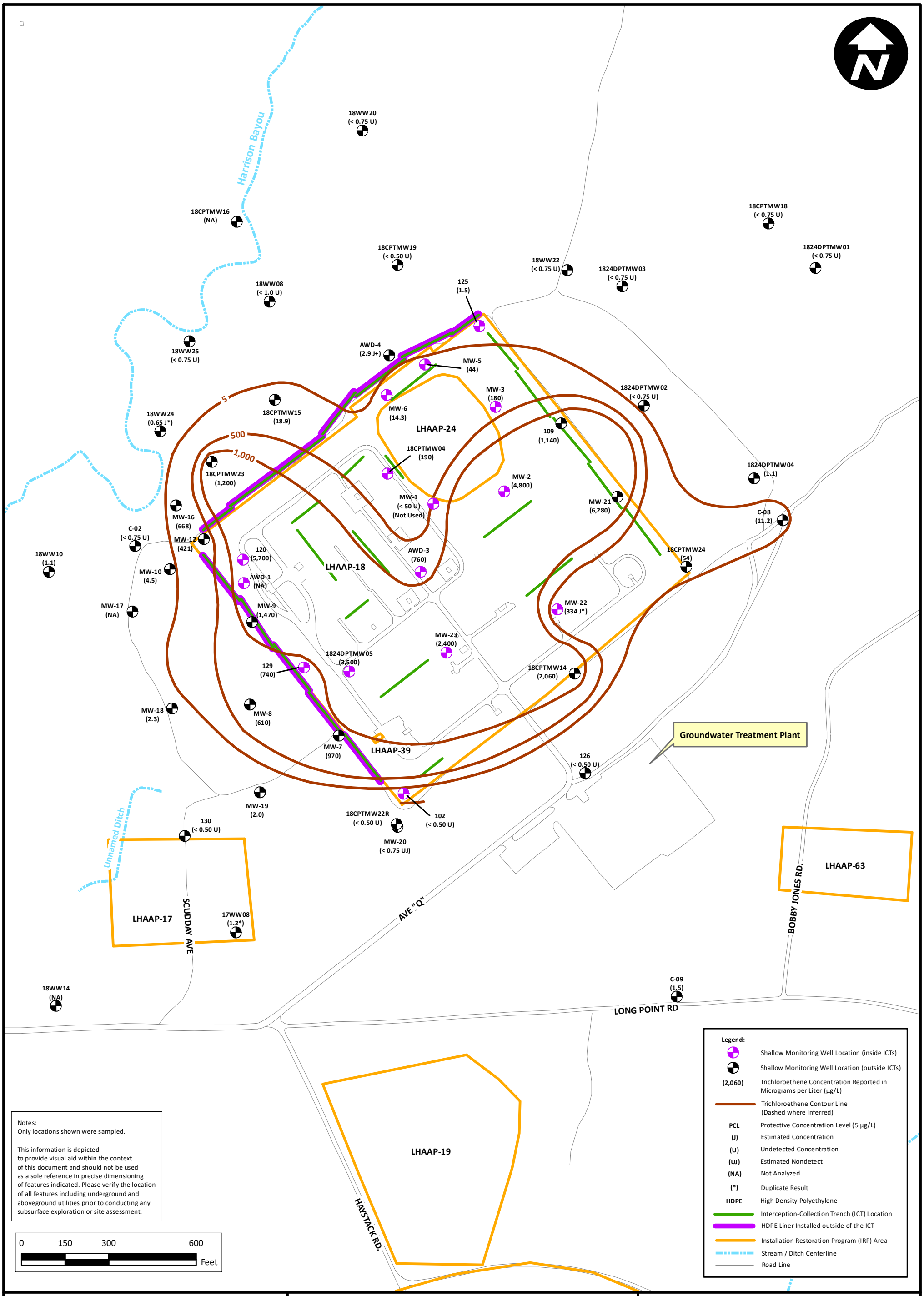
PCIbhate

Quarterly Evaluation Report 2nd Quarter (April - June) 2024
Groundwater Treatment Plant
Longhorn Army Ammunition Plant, Karnack, Texas

PROJECT NO:	SCALE:	DATE:	DRAWN BY:
JVPCIBH.0001.0005.03	As Shown	12/11/2024	MRM

Perchlorate Isopleth Contours in Wilcox Formation (June 2024)

Figure D-2



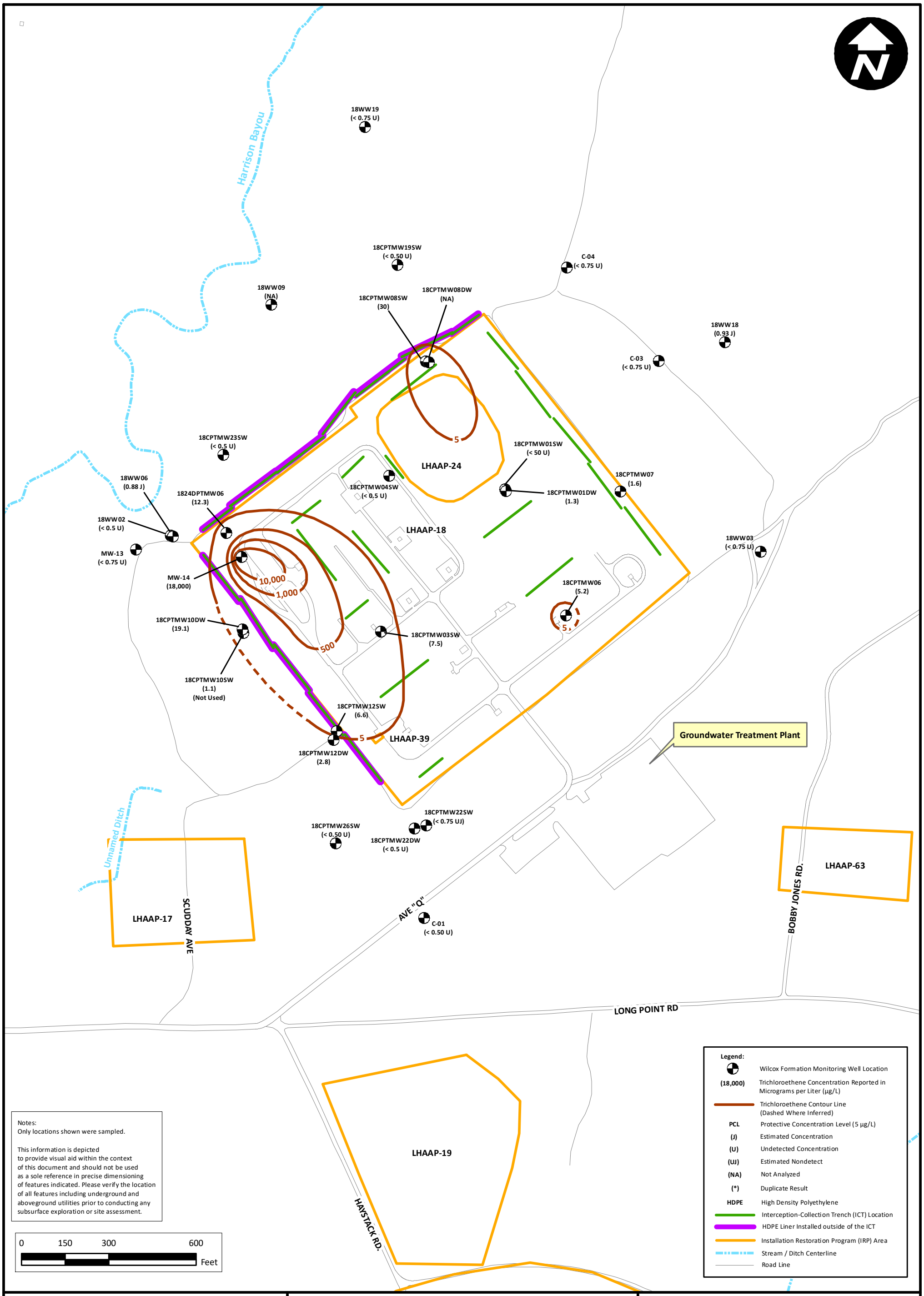
PCIbhate

Quarterly Evaluation Report 2nd Quarter (April - June) 2024
Groundwater Treatment Plant
Longhorn Army Ammunition Plant, Karnack, Texas

PROJECT NO:	SCALE:	DATE:	DRAWN BY:
JVPCIBH.0001.0005.03	As Shown	12/11/2024	MRM

Trichloroethene Isopleth Contours in Shallow Zone (June 2024)

Figure D-3



PCIbhate

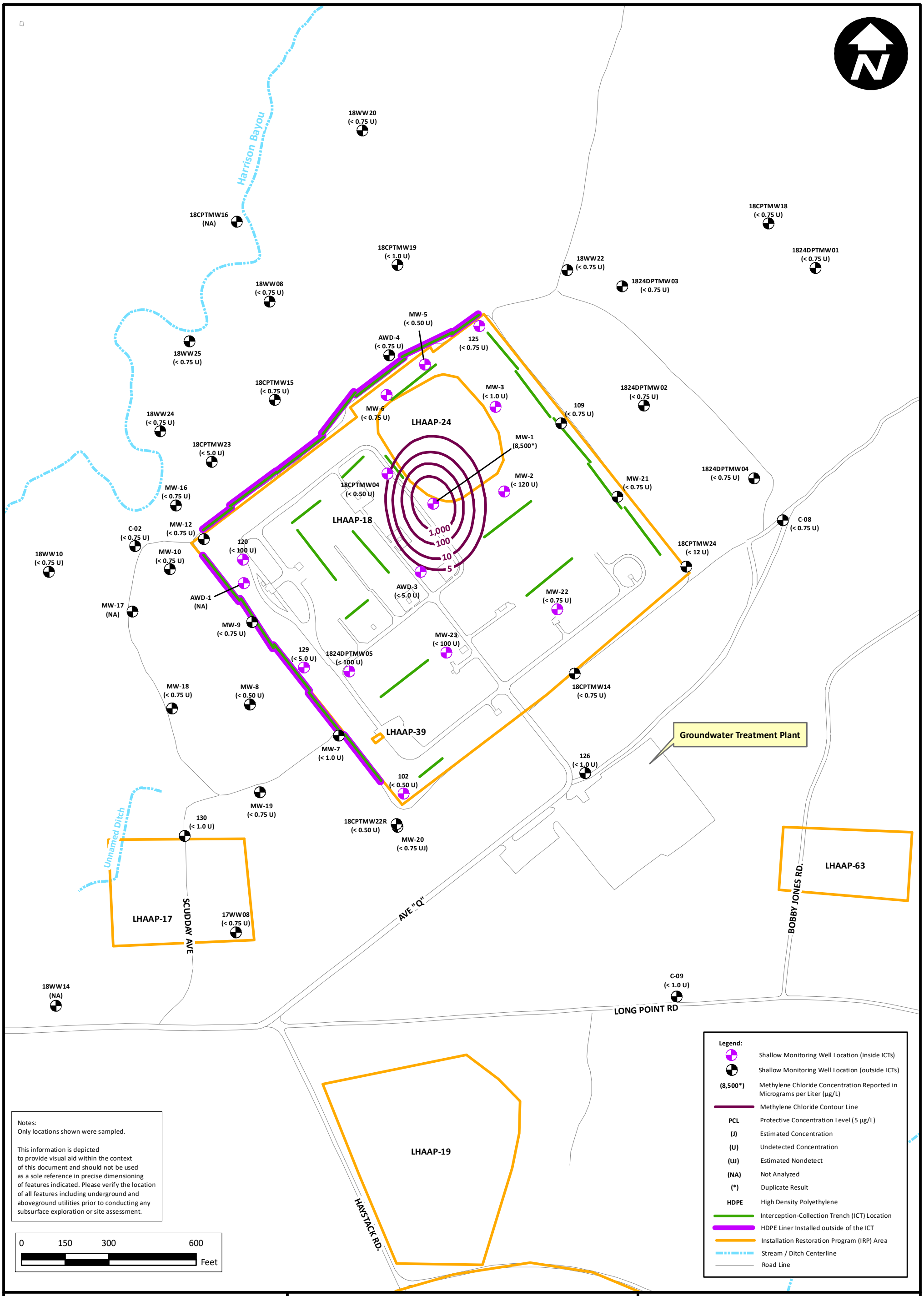
Quarterly Evaluation Report 2nd Quarter (April - June) 2024
Groundwater Treatment Plant
Longhorn Army Ammunition Plant, Karnack, Texas

PROJECT NO:	SCALE:	DATE:	DRAWN BY:
JVPCIBH.0001.0005.03	As Shown	12/11/2024	MRM

Trichloroethene Isopleth Contours in Wilcox Formation (June 2024)

Figure D-4

01291000



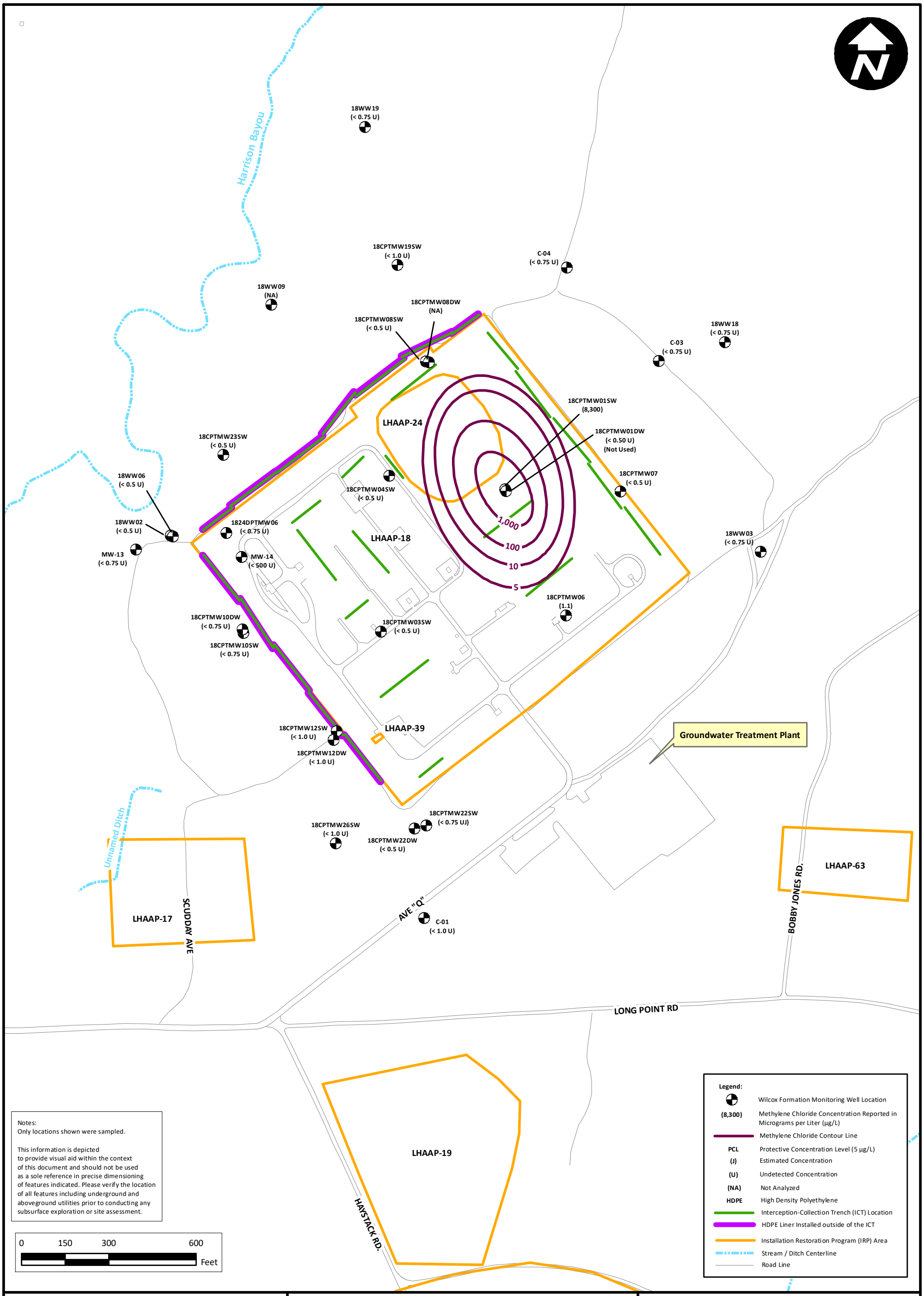
PCIbhate

Quarterly Evaluation Report 2nd Quarter (April - June) 2024
Groundwater Treatment Plant
Longhorn Army Ammunition Plant, Karnack, Texas

PROJECT NO:	SCALE:	DATE:	DRAWN BY:
JVPCIBH.0001.0005.03	As Shown	12/11/2024	MRM

Methylene Chloride Isopleth Contours in Shallow Zone (June 2024)

Figure D-5



PCIbhate

Quarterly Evaluation Report 2nd Quarter (April - June) 2024
Groundwater Treatment Plant
Longhorn Army Ammunition Plant, Karnack, Texas

PROJECT NO:	SCALE:	DATE:	DRAWN BY:
JVPCIBH.0001.0005.03	As Shown	12/11/2024	MRM

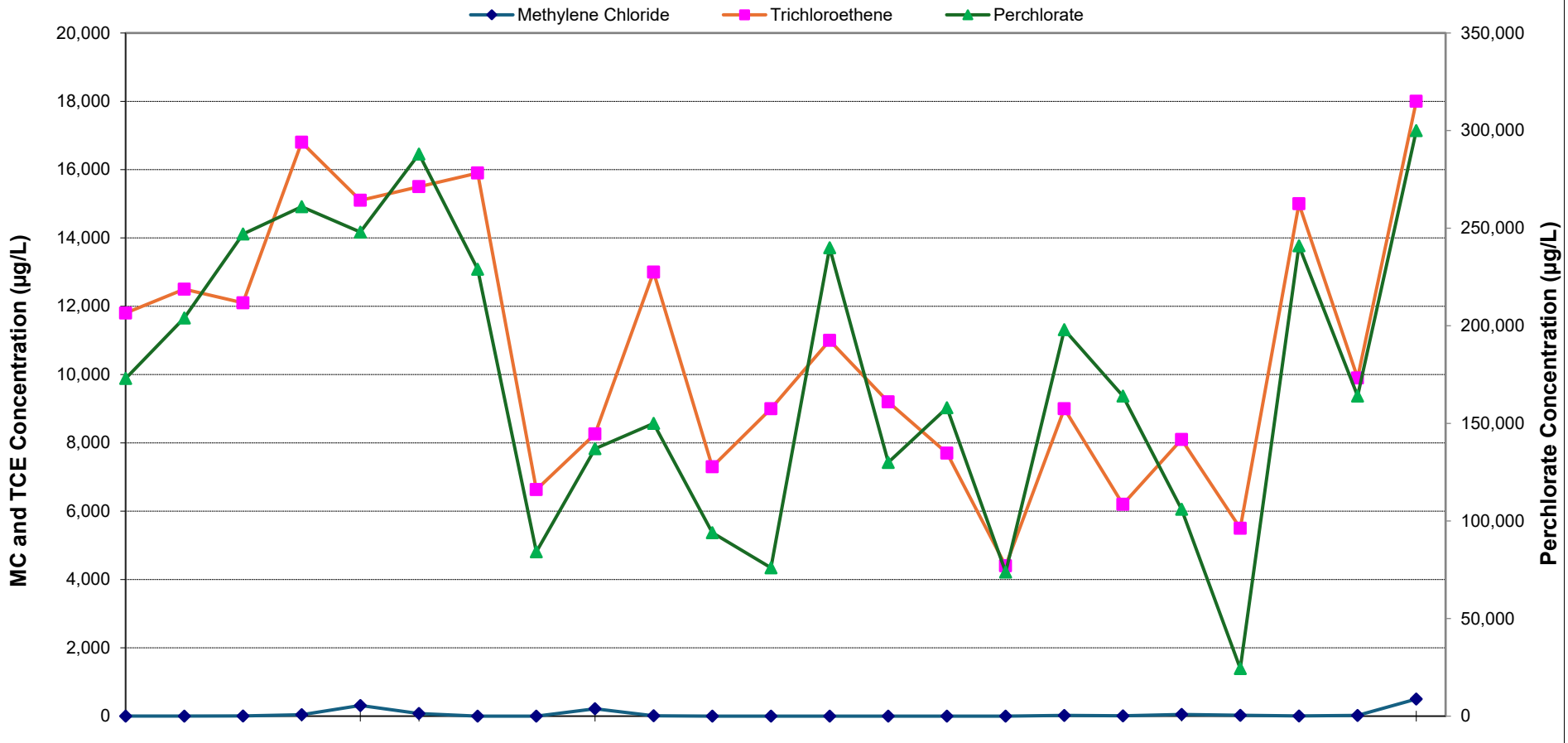
Methylene Chloride Isopleth Contours in Wilcox Formation (June 2024)

Figure D-6

APPENDIX E
MONITORING WELL TREND CHARTS

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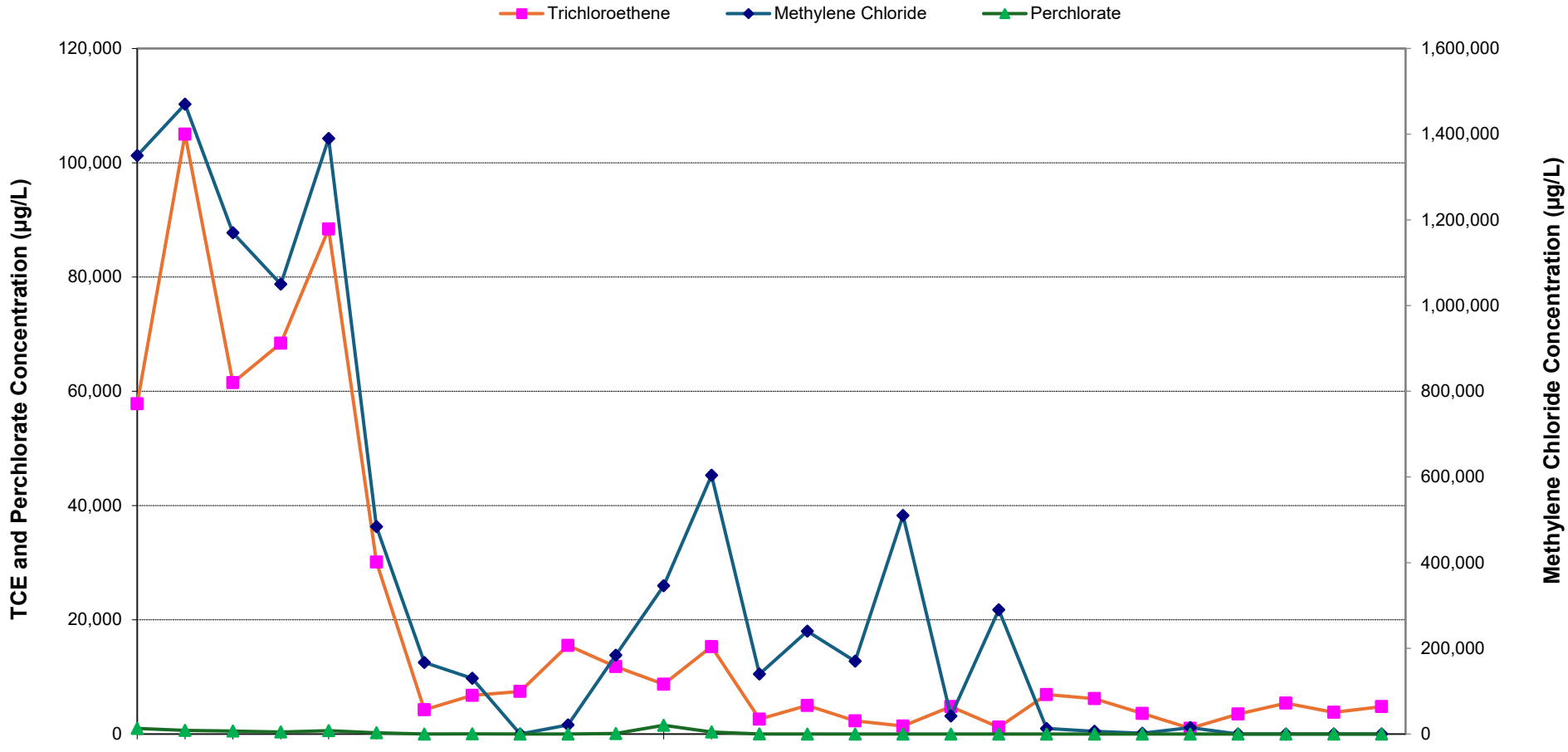
Monitoring Well MW-14
(Wilcox Formation - Inside Containment Area)



Concentration	Sep-2012	Dec-2013	Jun-2014	Dec-2014	Jun-2015	Dec-2015	Jun-2016	Dec-2016	Jun-2017	Dec-2017	Jun-2018	Dec-2018	Jun-2019	Dec-2019	Jun-2020	Dec-2020	Jun-2021	Dec-2021	Aug-2022	Dec-2022	Jun-2023	Dec-2023	Jun-2024
MC	1.6	0.689	5.65	42.5	312	76.8	ND	ND	216	11	ND	ND	ND	ND	ND	ND	20	10	50	25	5	20	500 U
TCE	11800	12500	12100	16800	15100	15500	15900	6630	8260	13000	7300	9000	11000	9200	7700	4400	9000	6200	8100	5500	15000	9900	18000
Perchlorate	173000	204000	247000	261000	248000	288000	229000	84200	137000	150000	94000	76000	240000	130000	158000	73800	198000	164000	106000	24400	241000	164000	300000

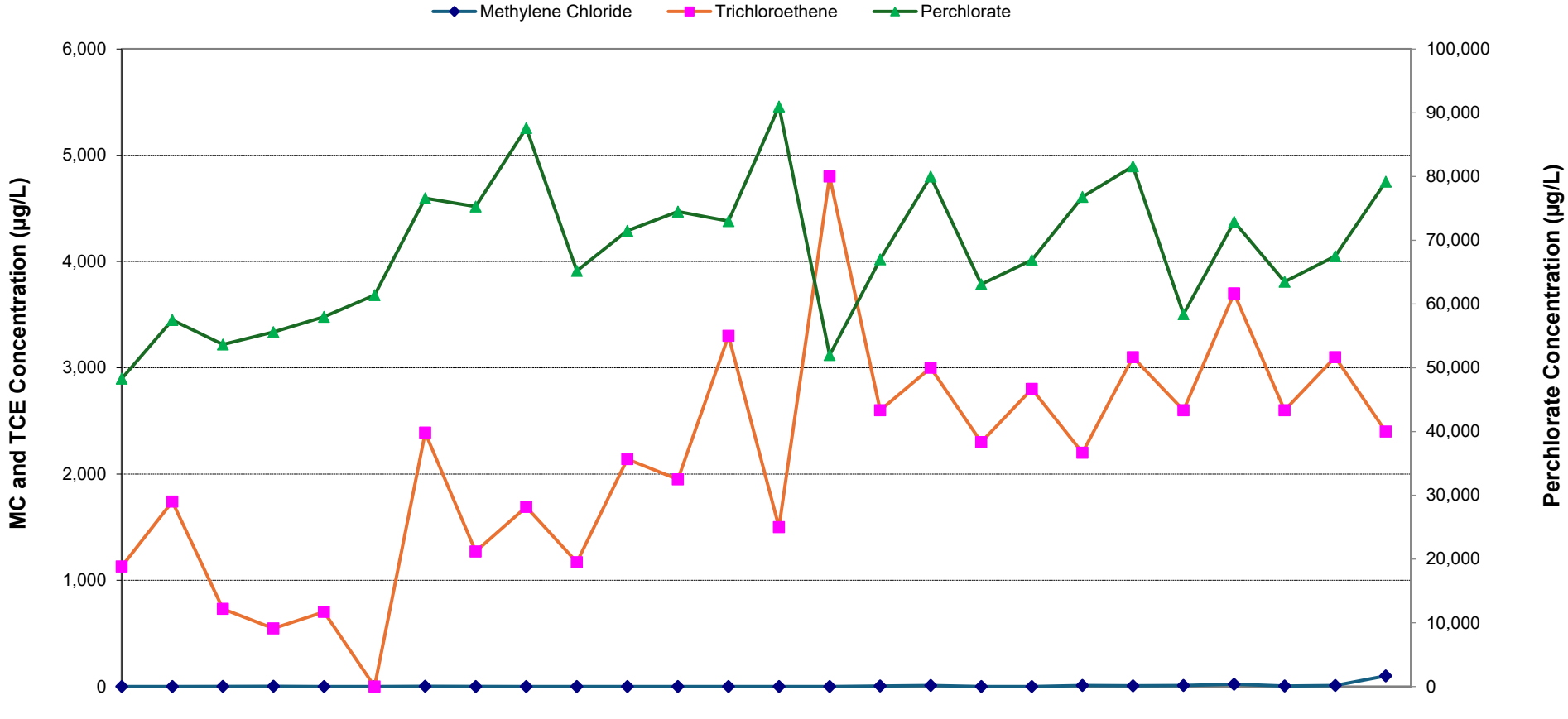
Sample Date

Monitoring Well MW-2
(Shallow Zone Groundwater - Inside Containment Area)



Concentration	Sep-2011	Mar-2012	Sep-2012	May-2013	Dec-2013	Jun-2014	Dec-2014	Jun-2015	Dec-2015	Jun-2016	Dec-2016	Mar-2017	Jun-2017	Dec-2017	Jun-2018	Dec-2018	Jun-2019	Dec-2019	Jun-2020	Dec-2020	Jun-2021	Dec-2021	Aug-2022	Dec-2022	Jun-2023	Dec-2023	Jun-2024
MC	1350000	1470000	1170000	1050000	1390000	484000	167000	130000	189	21300	184000	346000	604000	140000	240000	170000	510000	42000	290000	13000	6400	1900	15000	130	74	180	120 U
TCE	57800	105000	61500	68400	88400	30100	4240	6760	7450	15500	11800	8720	15300	2600	5000	2300	1400	4800	1200	6900	6200	3600	1000	3500	5400	3800	4800
Perchlorate	13100	8470	6940	4780	7820	2900	16.5	428	0.847	33.3	1290	20404	4830	160	1.3	ND	ND	ND	ND	ND	0.124	0.281	0.05	0	0.05	0.0528	0.121 J

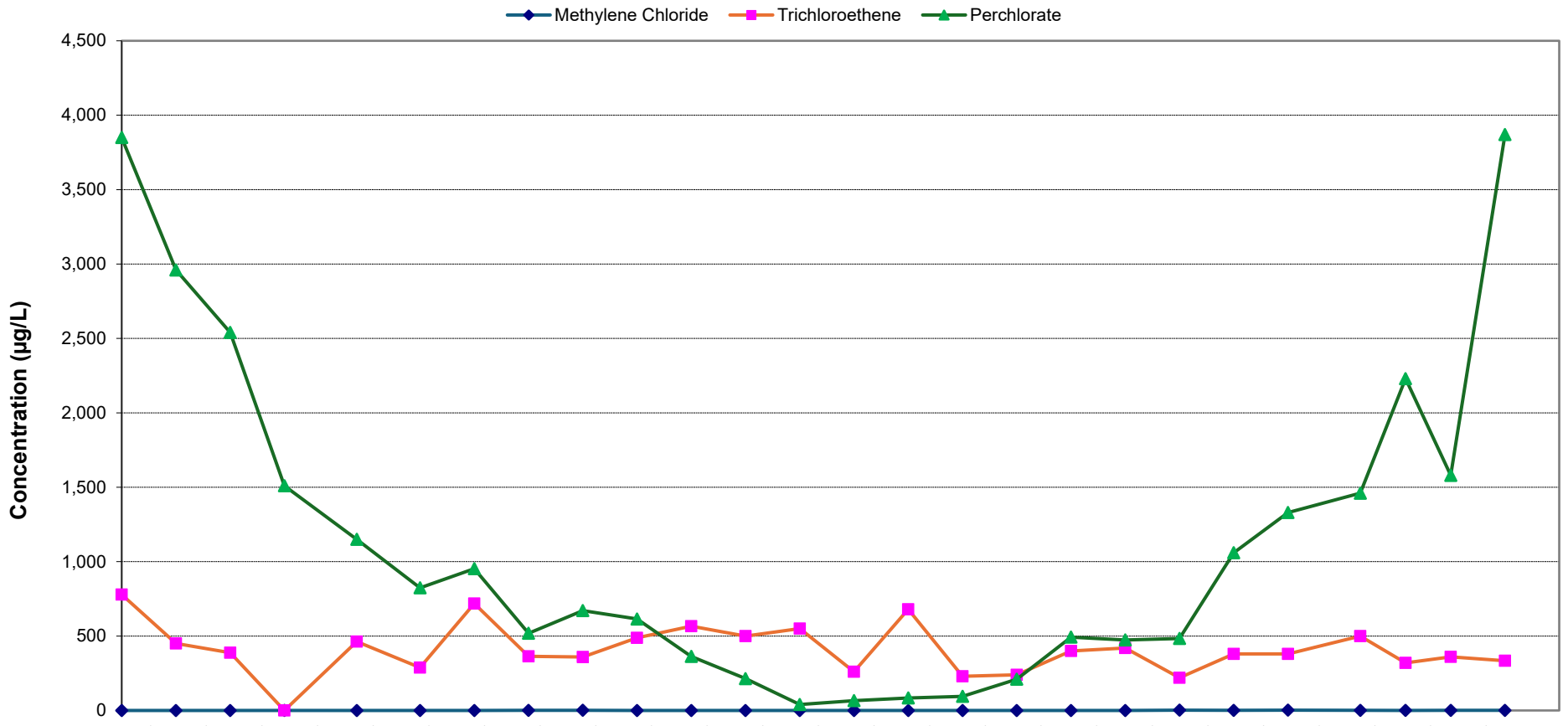
Monitoring Well MW-23
(Shallow Zone Groundwater - South Central Portion of Site Inside Fence Line)



Concentration	Sep-2011	Mar-2012	Sep-2012	May-2013	Dec-2013	Jun-2014	Dec-2014	Jun-2015	Dec-2015	Jun-2016	Dec-2016	Jun-2017	Dec-2017	Jun-2018	Dec-2018	Jun-2019	Dec-2019	Jun-2020	Dec-2020	Jun-2021	Dec-2021	Aug-2022	Dec-2022	Jun-2023	Dec-2023	Jun-2024
MC	ND	ND	1.34	2.5 U	0.338		2.5 U	0.492	ND	ND	ND	ND	ND	ND	ND	5.0 U	10 U	ND	ND	10 U	6.7	10 U	22	5	10 U	100 U
TCE	1130	1740	731	547	703		2390	1270	1690	1170	2140	1950	3300	1500	4800	2600	3000	2300	2800	2200	3100	2600	3700	2600	3100	2400
Perchlorate	48300	57500	53650	55600	58000	61400	76600	75300	87600	65200	71500	74500	73000	91000	52000	67000	80000	63100	66900	76800	81600	58400	72900	63500	67500	79200

Sample Date

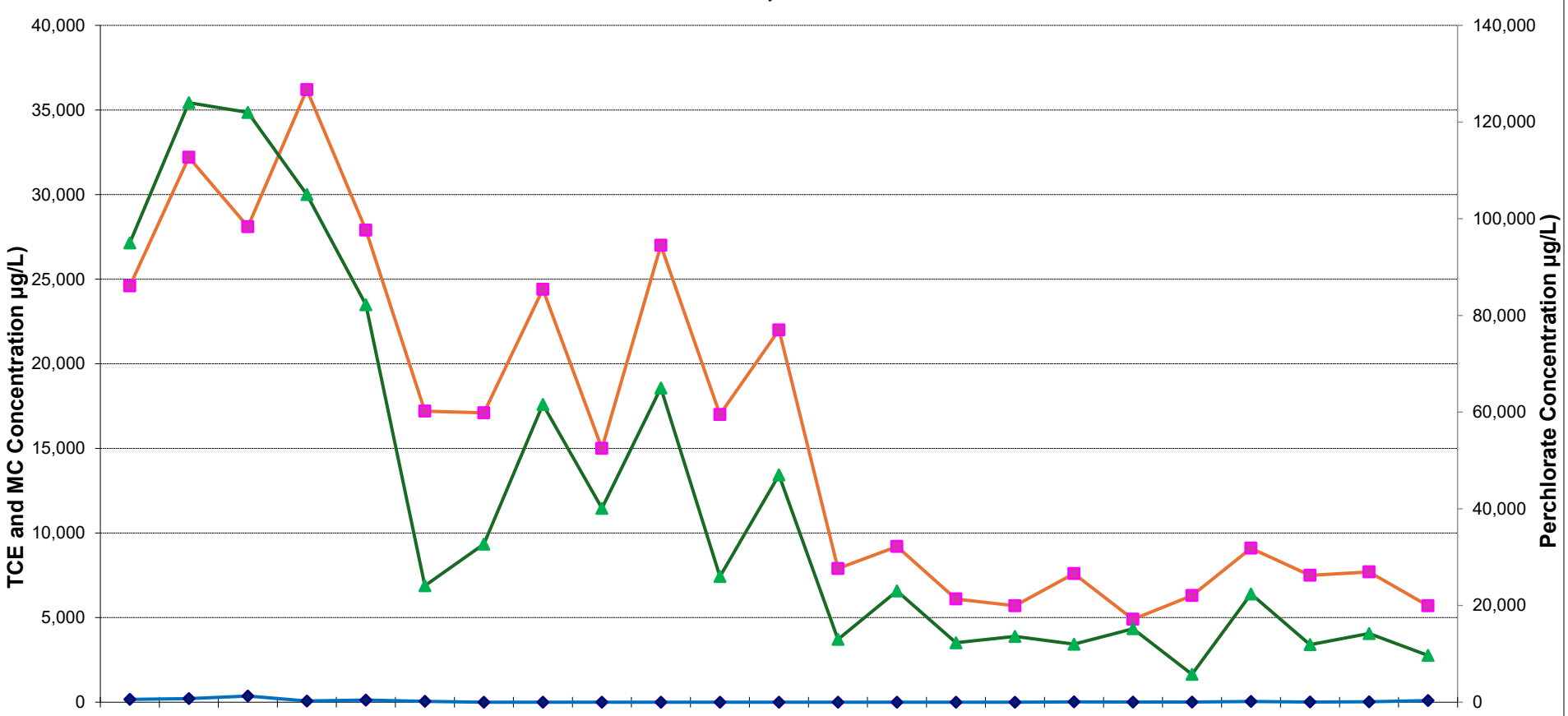
Monitoring Well MW-22
(Shallow Zone Groundwater - East-Southeast Portion of SIte Inside Fence Line)



Concentration	Sep-2011	Mar-2012	Sep-2012	May-2013	Dec-2013	Jun-2014	Dec-2014	Jun-2015	Dec-2015	Jun-2016	Dec-2016	Jun-2017	Dec-2017	Jun-2018	Dec-2018	Jun-2019	Dec-2019	Jun-2020	Dec-2020	Jun-2021	Dec-2021	Aug-2022	Jan-2023	Jun-2023	Dec-2023	Jun-2024
MC	ND	ND	ND	0.531	ND	ND	ND	0.601	1.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2	1	2	1	0.5	1	0.75 U
TCE	779	450	388	b	463	288	719	364	359	488	566	500	550	260	680	230	240	400	420	220	380	380	500	320	360	334 J
Perchlorate	3850	2960	2540	1510	1150	824	953	519	671	615	363	214	40	66	84	95	210	493	474	484	1060	1330	1460	2230	1580	3870

Sample Date

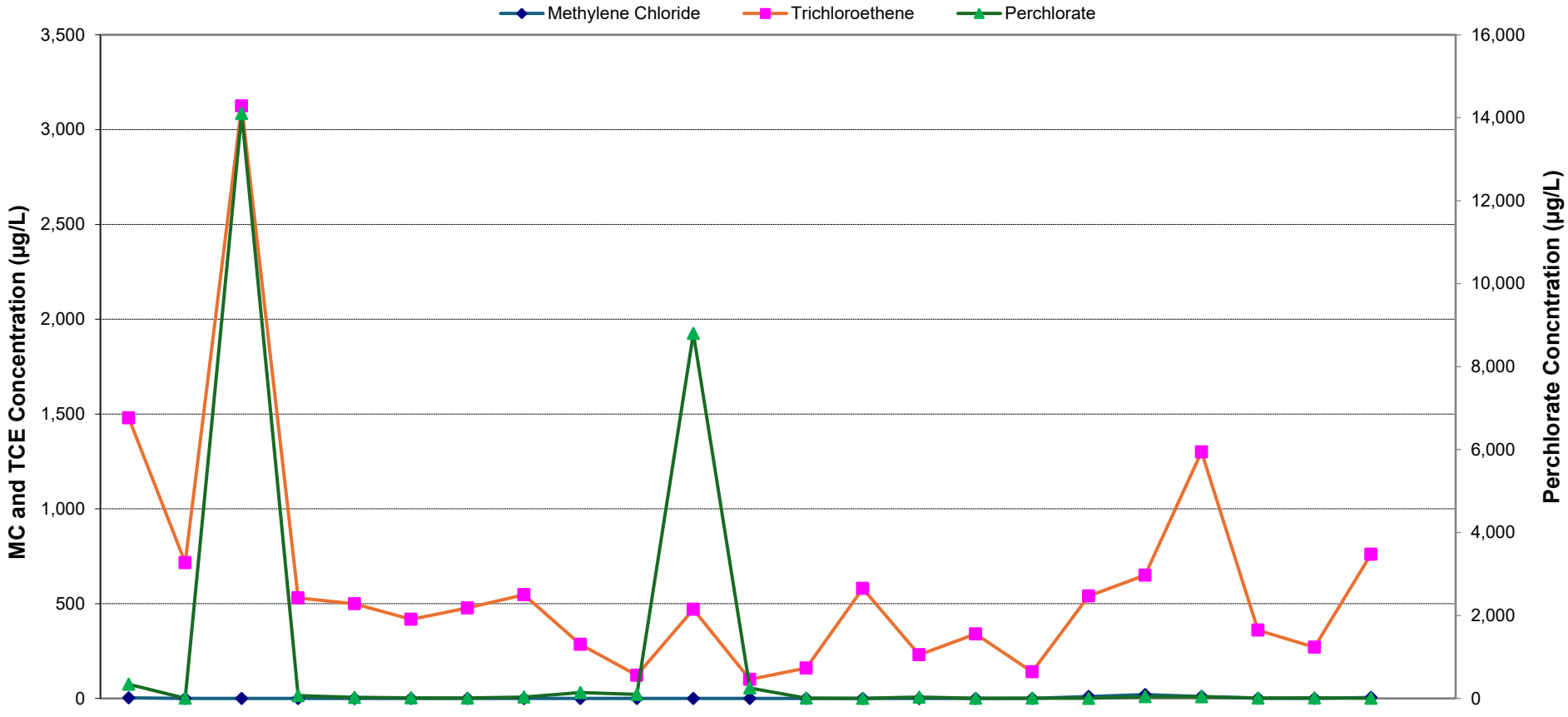
Monitoring Well 120
(Shallow Zone Groundwater - Western Portion of Site Inside Fence Line)



Concentration	May-2013	Dec-2013	Jun-2014	Dec-2014	Jun-2015	Dec-2015	Jun-2016	Dec-2016	Jun-2017	Dec-2017	Jun-2018	Dec-2018	Jun-2019	Dec-2019	Jun-2020	Dec-2020	Jun-2021	Dec-2021	Aug-2022	Dec-2022	Jun-2023	Dec-2023	Jun-2024
MC	170	214	363	71.1	125	50	ND	ND	ND	ND	ND	ND	<20	<25	ND	ND	20	10	10	42	12	25 U	100 U
TCE	24600	32200	28100	36200	27900	17200	17100	24400	15000	27000	17000	22000	7900	9200	6100	5700	7600	4900	6300	9100	7500	7700	5700
Perchlorate	95000	124000	122000	105000	82200	24100	32700	61600	40100	65000	26000	47000	13000	23000	12300	13600	12000	15200	5770	22400	11900	14200	9670

Sample Date

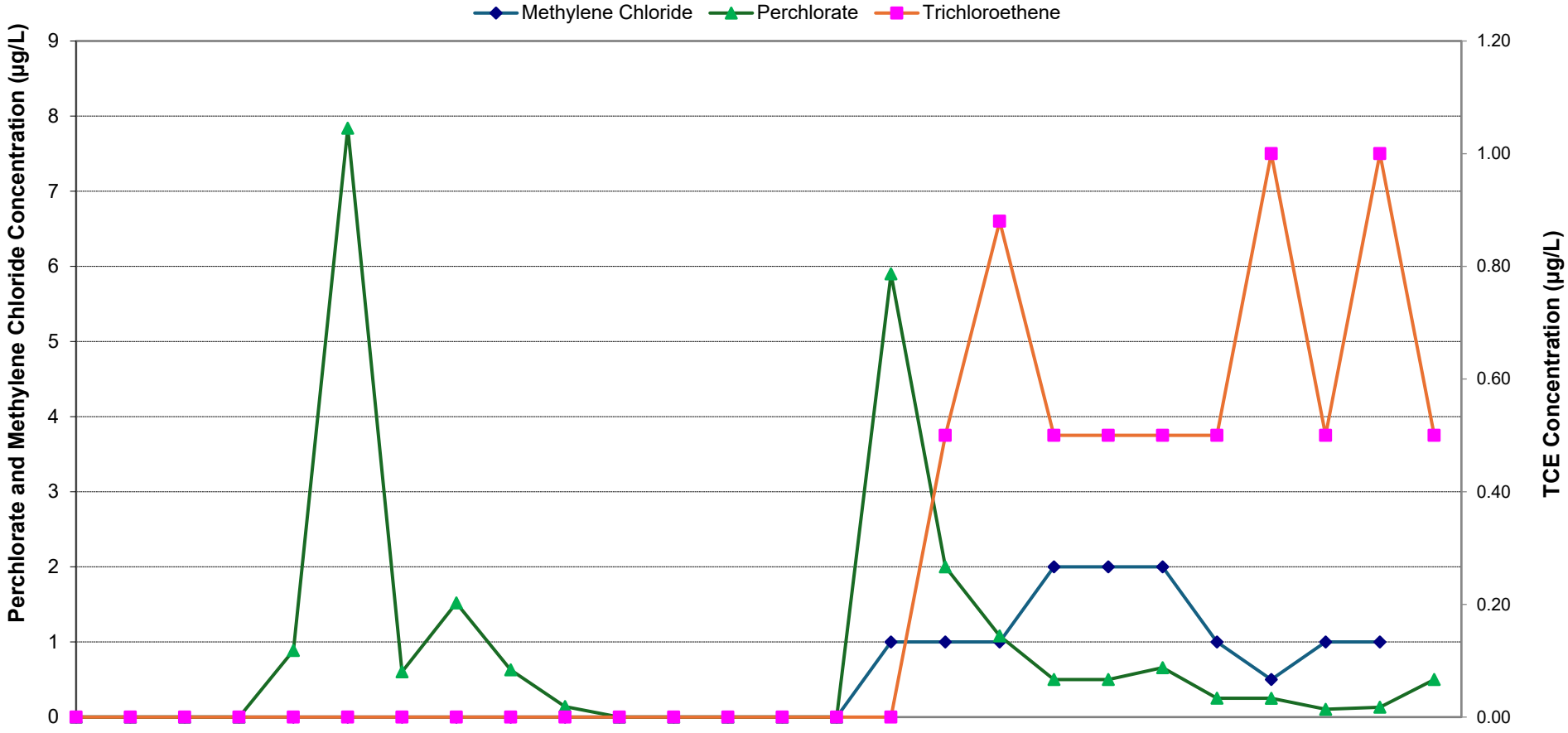
Monitoring Well AWD-3
(Shallow Zone Groundwater - Inside ICT Perimeter)



Concentration	Sep-2011	Mar-2012	Sep-2012	Dec-2013	Jun-2014	Dec-2014	Jun-2015	Dec-2015	Dec-2016	Jun-2017	Dec-2017	Jun-2018	Dec-2018	Jun-2019	Dec-2019	Jun-2020	Dec-2020	Jun-2021	Aug-2022	Dec-2022	Jun-2023	Dec-2023	Jun-2024
MC	2.92 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	< 10	< 1.0	ND	ND	10	20	10	0.5	< 1.0 U	5.0 U
TCE	1480	716	3125	530	499	417	477	547	285	122	470	100	160	580	230	340	140	540	650	1300	360	270	760
Perchlorate	342	3.88	14100	67.2	25	13.6	8.33	33.8	140	95.4	8800	250	6.9	1.8	32	4.07	7.56	1.94	42.3	41.5	9.18	11.6	3.5

Sample Date

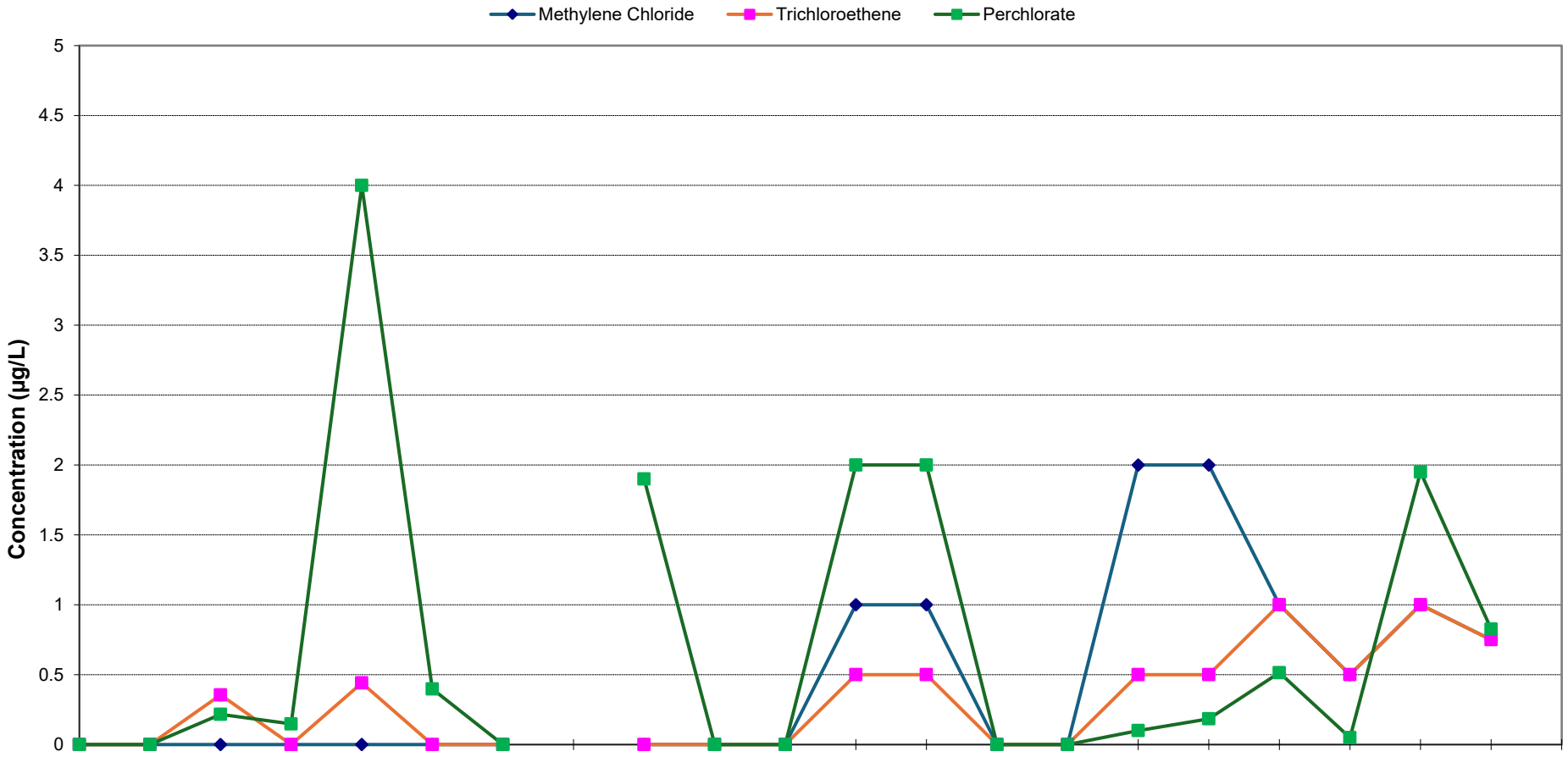
Monitoring Well 126
(Shallow Zone Groundwater - Northwest of GWTP)



Concentration	Sep-2011	Mar-2012	Sep-2012	Dec-2013	Jun-2014	Dec-2014	Jun-2015	Dec-2015	Jun-2016	Mar-2017	Jun-2017	Dec-2017	Jun-2018	Dec-2018	Jun-2019	Dec-2019	Jun-2020	Dec-2020	Jun-2021	Dec-2021	Aug-2022	Jan-2023	Jun-2023	Dec-2023	Jun-2024
MC	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.0	1.0	1.0	2.0	2.0	2.0	1.0	0.5	1.0 U	1.0 U
TCE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.5	0.88	0.5	0.5	0.5	0.5	1	0.5	1.0 U	0.5 U
Perchlorate	ND	ND	ND	0.887	7.84	0.602	1.52	0.629	0.14	ND	ND	ND	ND	ND	5.9	2.0	1.08	0.5	0.5	0.658	0.251	0.25	0.10	0.131	0.5 U

Sample Date

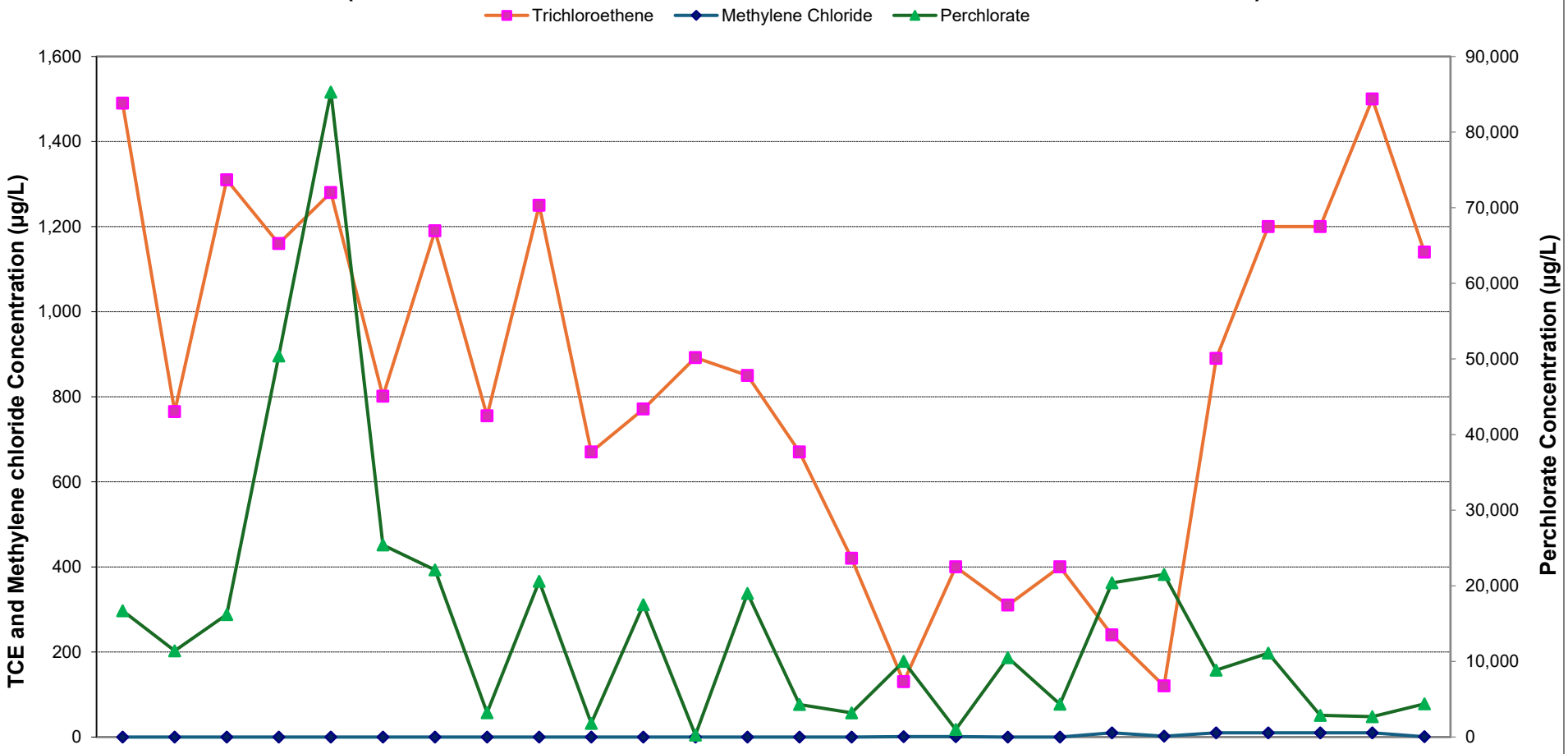
Monitoring Well MW-20
(Shallow Zone Groundwater - South of Site Outside Fence Line)



Concentration	Sep-2010	Mar-2011	Sep-2011	Mar-2012	Jun-2015	Dec-2015	Dec-2016	Jun-2017	Dec-2017	Jun-2018	Dec-2018	Jun-2019	Dec-2019	Jun-2020	Dec-2020	Jun-2021	Aug-2022	Dec-2022	Jun-2023	Dec-2023	Jun-2024
MC	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	1	1	ND	ND	2	2	1.0	0.5	1.0 U	0.75 U
TCE	ND	ND	0.355J	ND	0.441	ND	ND		ND	ND	ND	0.5	0.5	ND	ND	0.5	0.5	1.0	0.5	1.0 U	0.75 U
Perchlorate	ND	ND	0.216	0.148	4	0.398	ND		1.9	ND	ND	2	2	ND	0.508J	0.355J	0.184	0.514	0.049	1.95	0.826

Sample Date

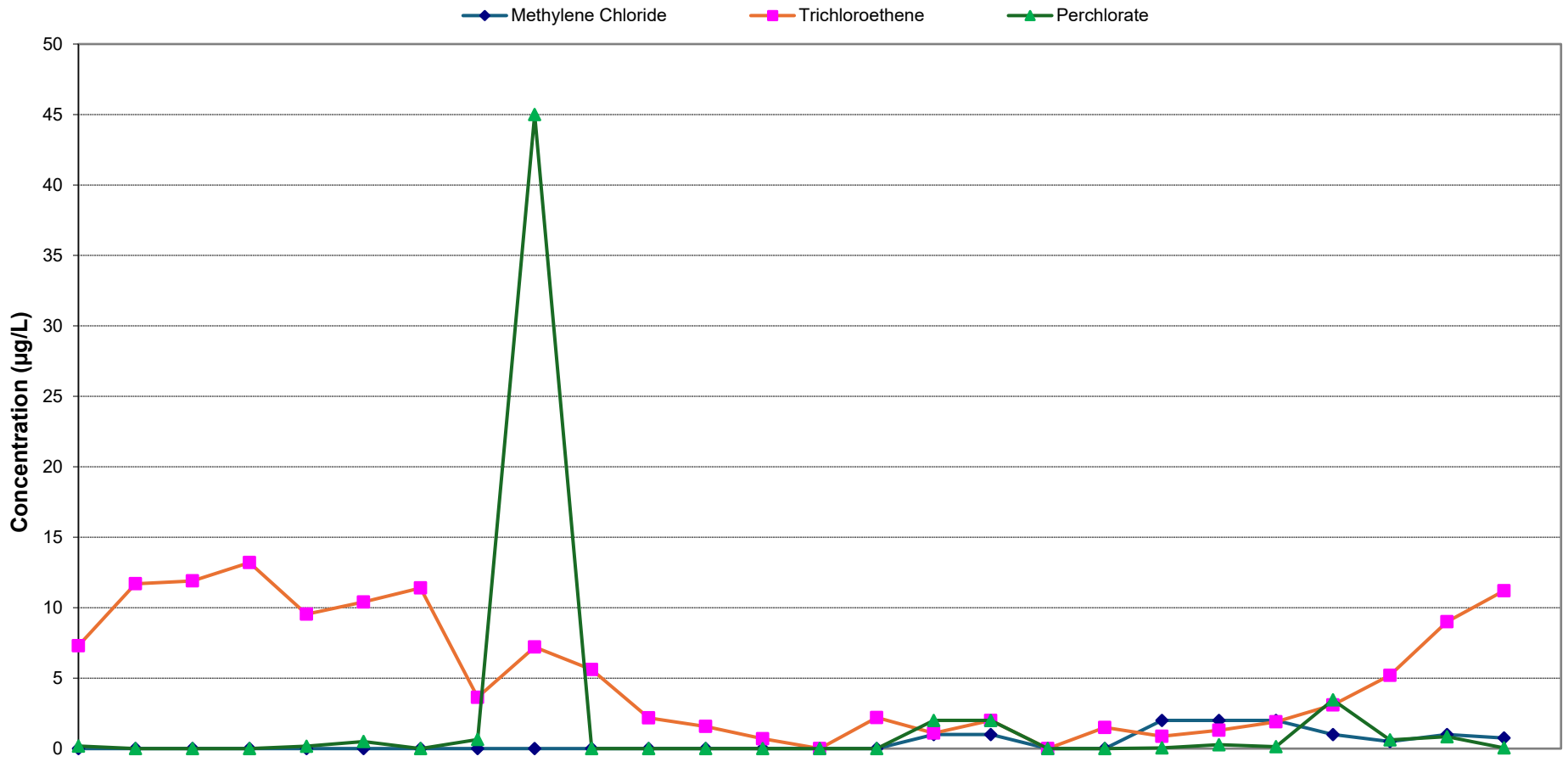
Monitoring Well 109
(Shallow Zone Groundwater - Northeast Portion of SIte Inside Fence Line)



Concentration	Sep-2011	Mar-2012	Sep-2012	May-2013	Dec-2013	Jun-2014	Dec-2014	Jun-2015	Dec-2015	Jun-2016	Dec-2016	Jun-2017	Dec-2017	Jun-2018	Dec-2018	Jun-2019	Dec-2019	Jun-2020	Dec-2020	Jun-2021	Dec-2021	Aug-2022	Dec-2022	Jun-2023	Dec-2023	Jun-2024
MC	ND	ND	ND	< 5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	1	ND	ND	10	2.0	10.0	10.0	10.0	10	0.75 U
TCE	1490	765	1310	1160	1280	801	1190	755	1250	670	771	892	850	670	420	130	400	310	400	240	120	890	1200	1200	1500	1140
Perchlorate	16700	11400	16200	50400	85300	25400	22100	3220	20600	1810	17500	265	19000	4300	3200	10000	1000	10500	4350	20400	21500	8850	11100	2870	2.700	4390

Sample Date

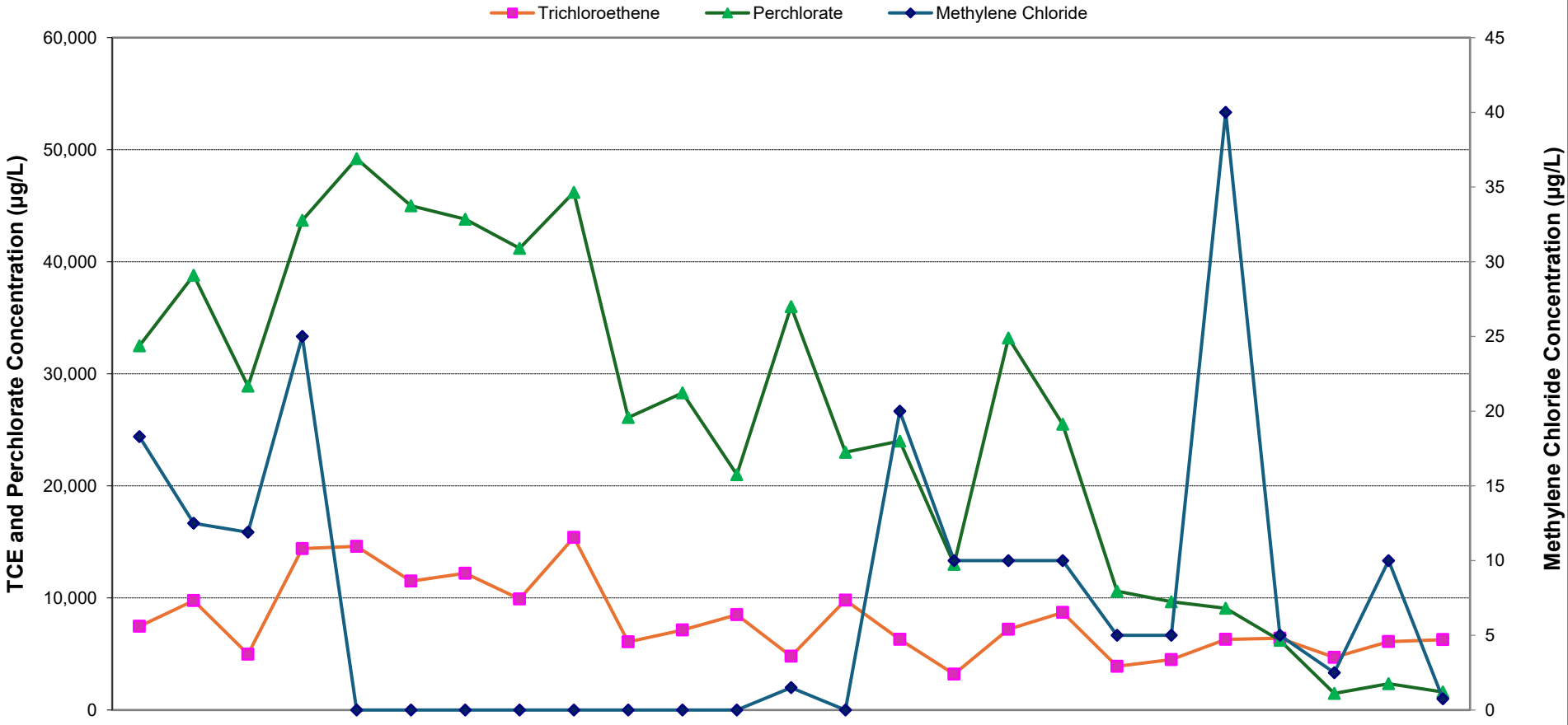
Monitoring Well C-08
(Shallow Zone Groundwater - East of Site Outside the Fence Line)



Concentration	Sep-2011	Mar-2012	Sep-2012	May-2013	Dec-2013	Jun-2014	Dec-2014	Jun-2015	Dec-2015	Jun-2016	Dec-2016	Jun-2017	Dec-2017	Jun-2018	Dec-2018	Jun-2019	Dec-2019	Jun-2020	Dec-2020	Jun-2021	Dec-2021	Aug-2022	Jan-2023	Jun-2023	Dec-2023	Jun-2024
MC	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	1	ND	ND	2.0	2.0	2.0	1.0	0.5	1.0	0.75 U
TCE	7.3	11.7	11.9	13.2	9.54	10.4	11.4	3.64	7.21	5.61	2.18	1.57	0.7	ND	2.2	1.1	2	ND	1.5	0.87	1.3	1.9	3.1	5.2	9.0	11.2
Perchlorate	0.179 J	ND	ND	ND	0.17	0.501	ND	0.648	45	ND	ND	ND	ND	ND	ND	2	2	ND	ND	0.05	0.273	0.135	3.46	0.615	0.843	0.05 U

Sample Date

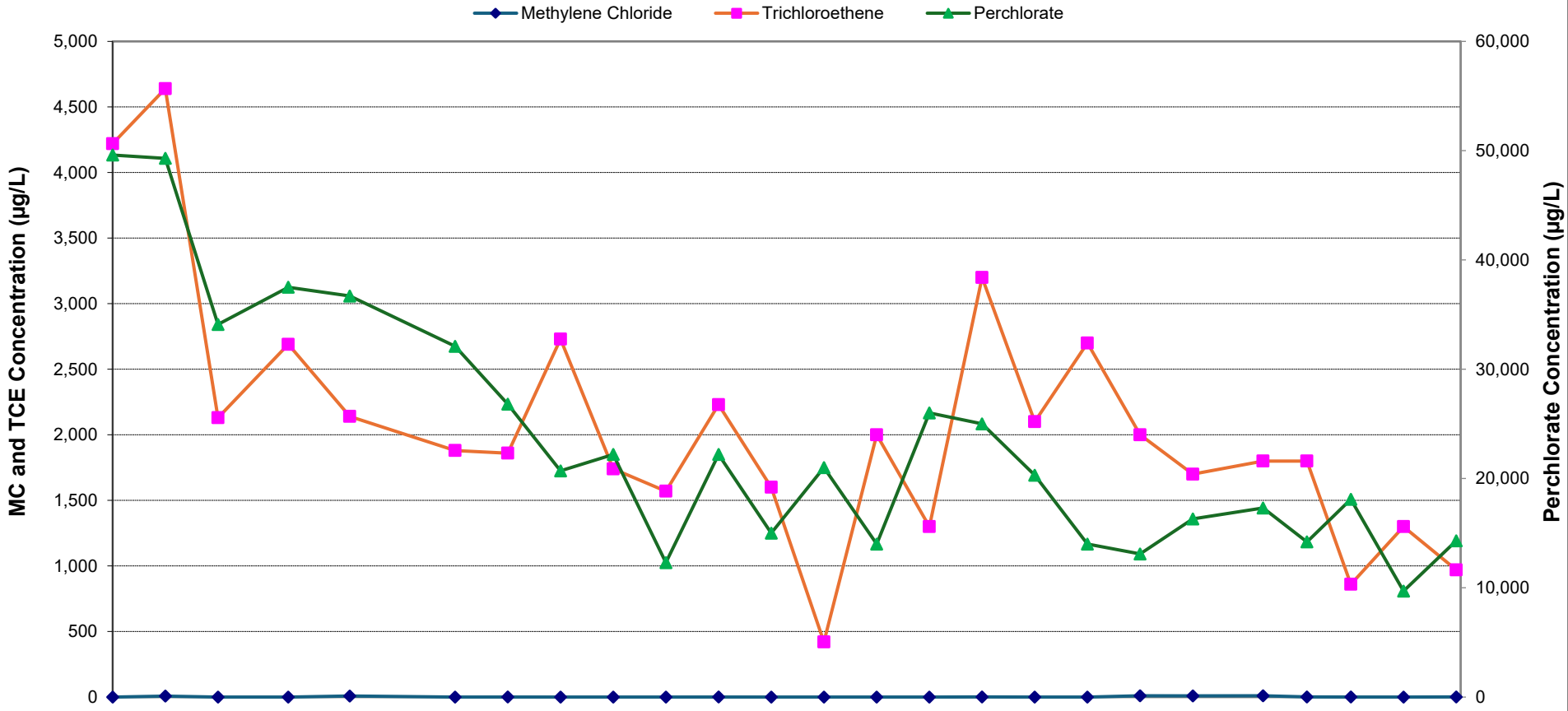
Monitoring Well MW-21
(Shallow Zone Groundwater - Eastern Portion of Site Along the Fence Line)



Concentration	Sep-2011	Mar-2012	Sep-2012	May-2013	Dec-2013	Jun-2014	Dec-2014	Jun-2015	Dec-2015	Jun-2016	Jun-2017	Dec-2017	Jun-2018	Dec-2018	Jun-2019	Dec-2019	Jun-2020	Dec-2020	Jun-2021	Dec-2021	Aug-2022	Dec-2022	Jun-2023	Dec-2023	Jun-2024
MC	18.3 J	12.5	11.9	25	ND	ND	ND	ND	ND	ND	ND	ND	1.5	ND	20	10	10	10	5.0	5.0	40.0	5.0	2.5	10 U	0.75 U
TCE	7470	9760	4980	14400	14600	11500	12200	9910	15400	6080	7140	8500	4800	9800	6300	3200	7200	8700	3900	4500	6300	6400	4700	6100	6280
Perchlorate	32500	38800	28900	43700	49200	45000	43800	41200	46200	26100	28300	21000	36000	23000	24000	13000	33200	25500	10600	9660	9080	6220	1480	2350	1610

Sample Date

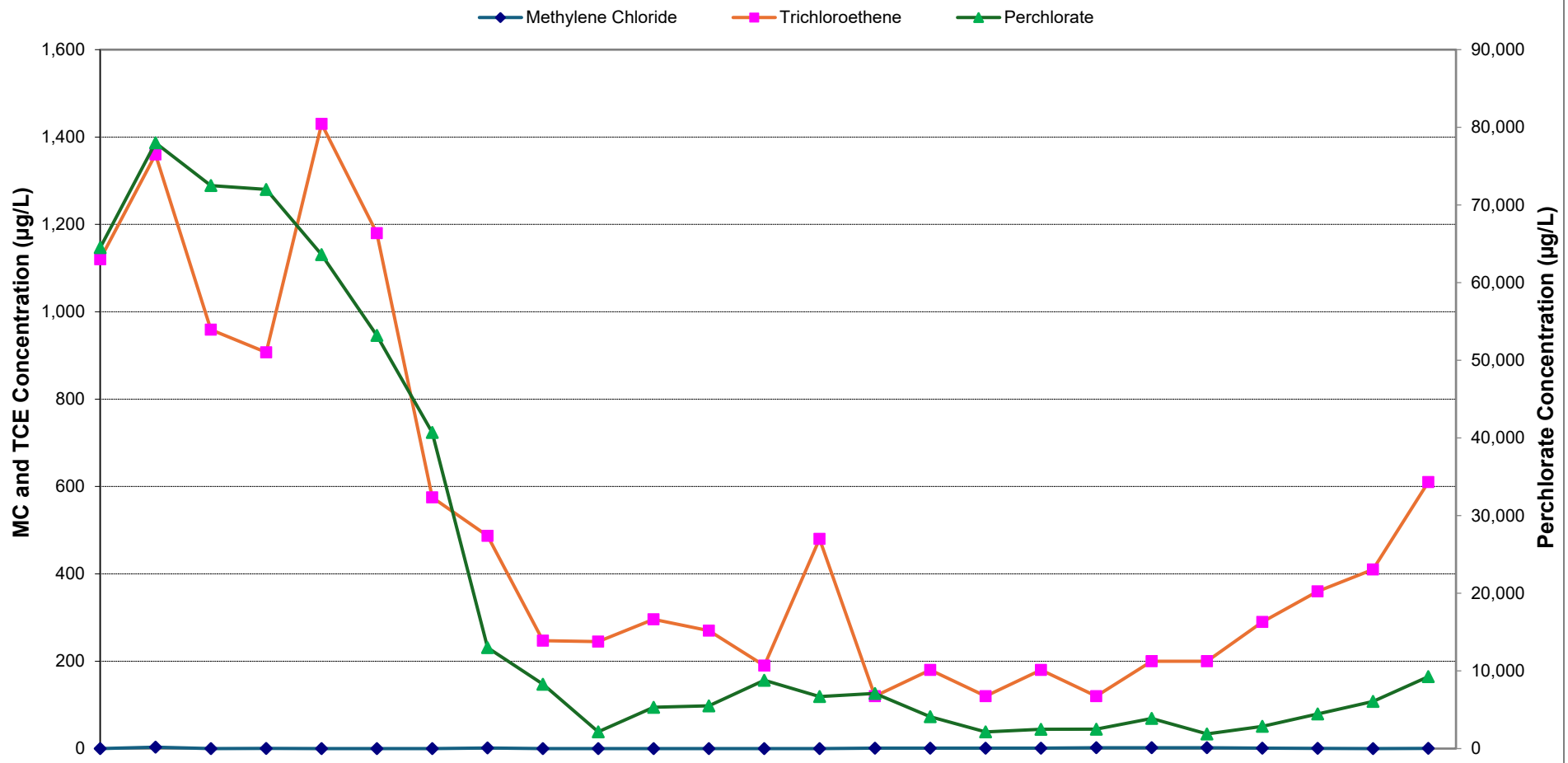
Monitoring Well MW-7
(Shallow Zone Groundwater - Southwest of Site Outside the Fence Line)



Concentration	Sep-2011	Mar-2012	Sep-2012	May-2013	Dec-2013	Dec-2014	Jun-2015	Dec-2015	Jun-2016	Dec-2016	Jun-2017	Dec-2017	Jun-2018	Dec-2018	Jun-2019	Dec-2019	Jun-2020	Dec-2020	Jun-2021	Dec-2021	Aug-2022	Jan-2023	Jun-2023	Dec-2023	Jun-2024
MC	ND	7.75	ND	ND	7.81	ND	0.352	ND	ND	ND	0.314	ND	ND	ND	ND	1.0	ND	ND	10	9.2	10	1	0.5	< 5.0 U	1.0 U
TCE	4220	4640	2130	2690	2140	1880	1860	2730	1740	1570	2230	1600	420	2000	1300	3200	2100	2700	2000	1700	1800	1800	860	1300	970
Perchlorate	49600	49300	34100	37500	36700	32100	26800	20700	22200	12300	22200	15000	21000	14000	26000	25000	20300	14000	13100	16300	17300	14200	18100	9700	14300

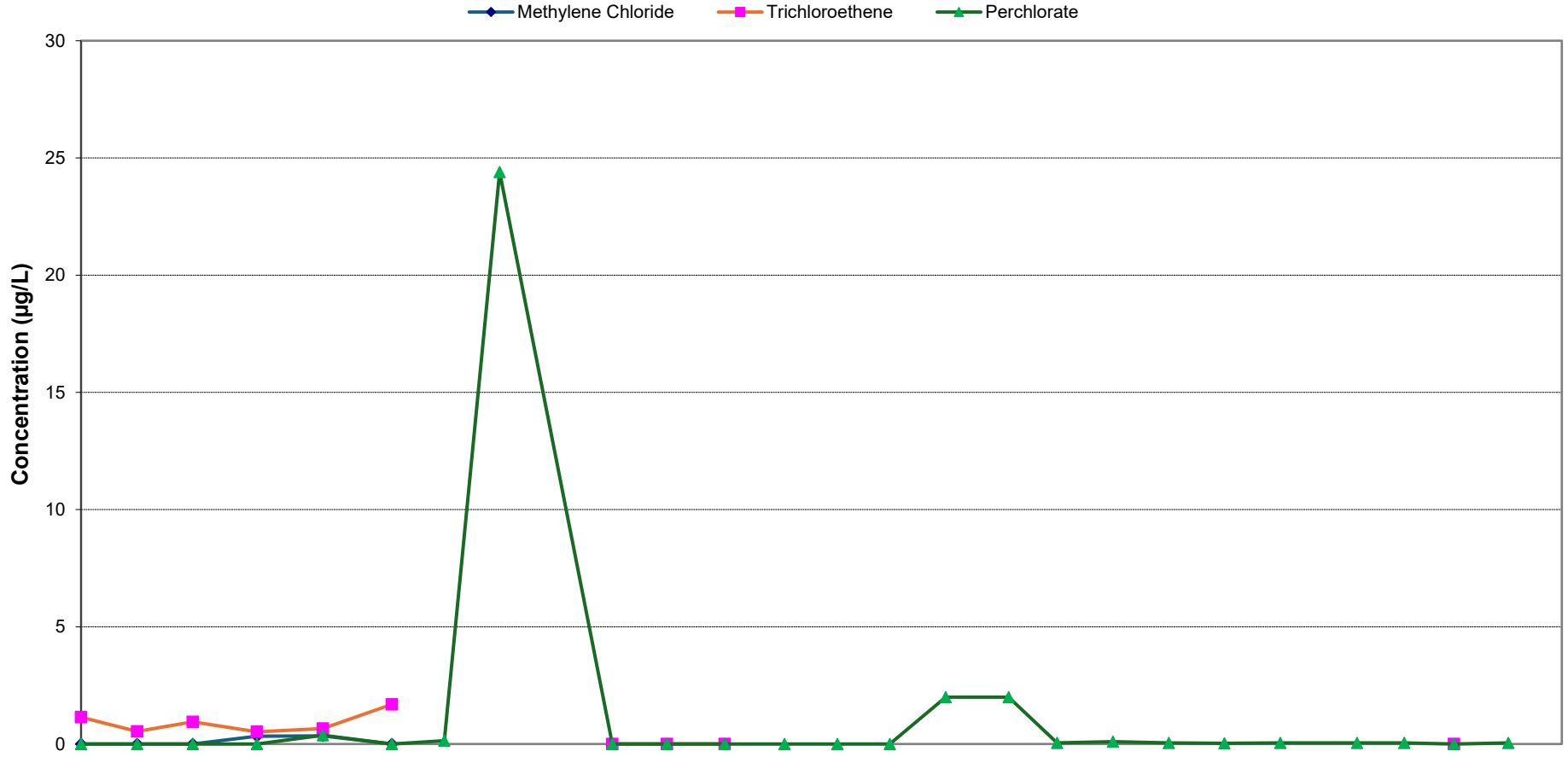
Sample Date

Monitoring Well MW-8
(Shallow Zone Groundwater - Southwest of SIte Outside the Fence Line)



Concentration	Sep-2011	Mar-2012	Sep-2012	May-2013	Dec-2013	Dec-2014	Jun-2015	Dec-2015	Jun-2016	Dec-2016	Jun-2017	Dec-2017	Jun-2018	Dec-2018	Jun-2019	Dec-2019	Jun-2020	Dec-2020	Jun-2021	Dec-2021	Aug-2022	Jan-2023	Jun-2023	Dec-2023	Jun-2024
MC	ND	3.25	ND	0.351	ND	ND	ND	1.44	ND	ND	ND	ND	ND	ND	1.0	1.0	1.0	1.0	2.0	2.0	2.0	1.0	0.5	< 1.0 U	0.5 U
TCE	1120	1360	959	907	1430	1180	575	487	247	245	296	270	190	480	120	180	120	180	120	200	200	290	360	410	610
Perchlorate	64500	78000	72500	72000	63600	53200	40700	13000	8290	2160	5320	5500	8800	6700	7100	4100	2150	2480	2500	3880	1890	2860	4460	6070	9260

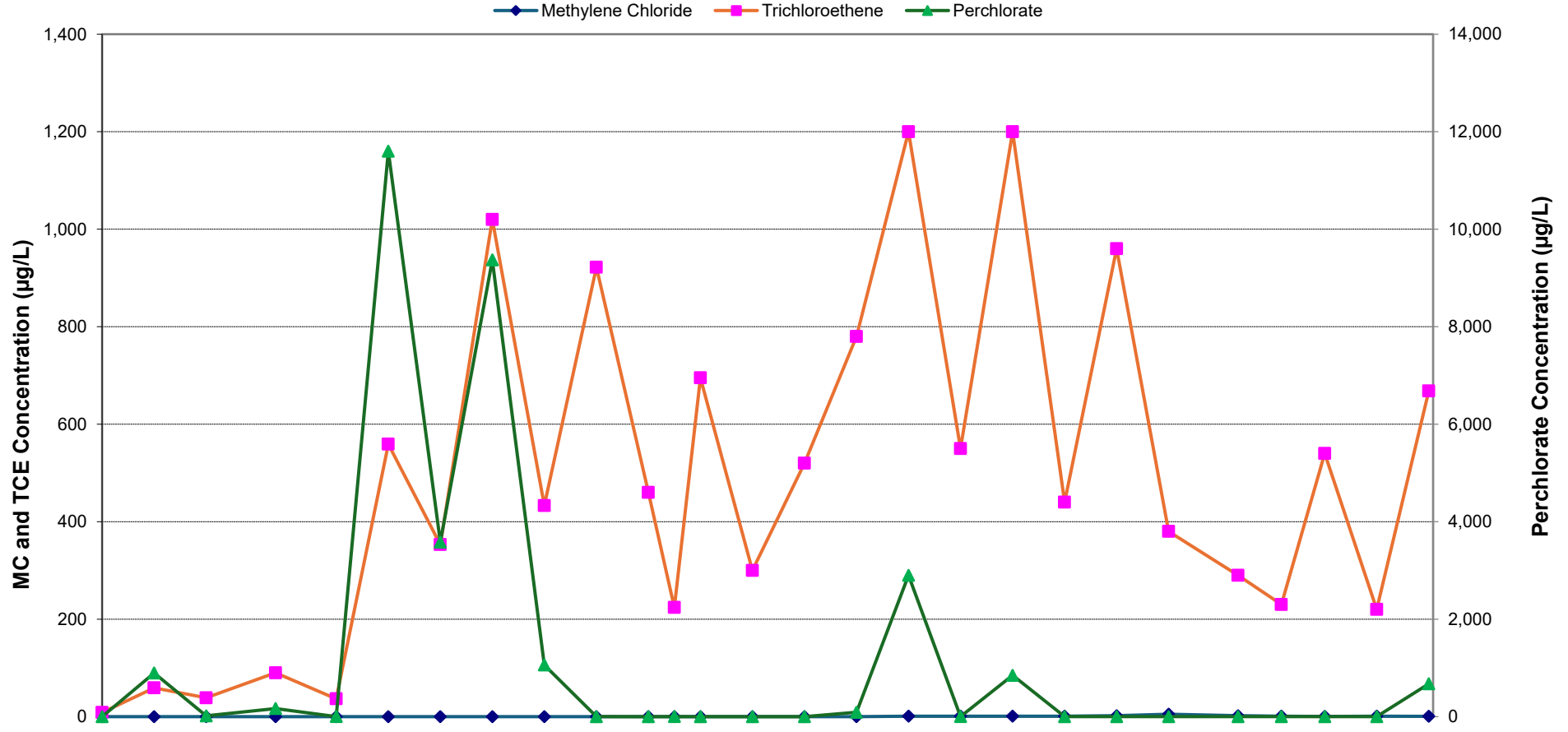
Monitoring Well MW-17
(Shallow Zone Groundwater - Southwest of Site Outside of the Fence Line)



Concentration	Sep-2011	Mar-2012	Sep-2012	May-2013	Dec-2013	Jun-2014	Dec-2014	Dec-2015	Jun-2016	Dec-2016	Jun-2017	Dec-2017	Jun-2018	Dec-2018	Jun-2019	Dec-2019	Jun-2020	Dec-2020	Jun-2021	Dec-2021	Aug-2022	Jan-2023	Jun-2023	Dec-2023	Jun-2024
MC	ND	ND	ND	0.335	0.346	ND			ND	ND	ND														
TCE	1.14	0.537	0.943	0.519	0.656	1.69			ND	ND	ND													NA	
Perchlorate	ND	ND	ND	ND	0.376	ND	0.143	24.4	ND	ND	ND	ND	ND	ND	2.0	2.0	0.05	0.1	0.05	0.0282	0.05	0.05	0.05	< 0.05	0.0500 U

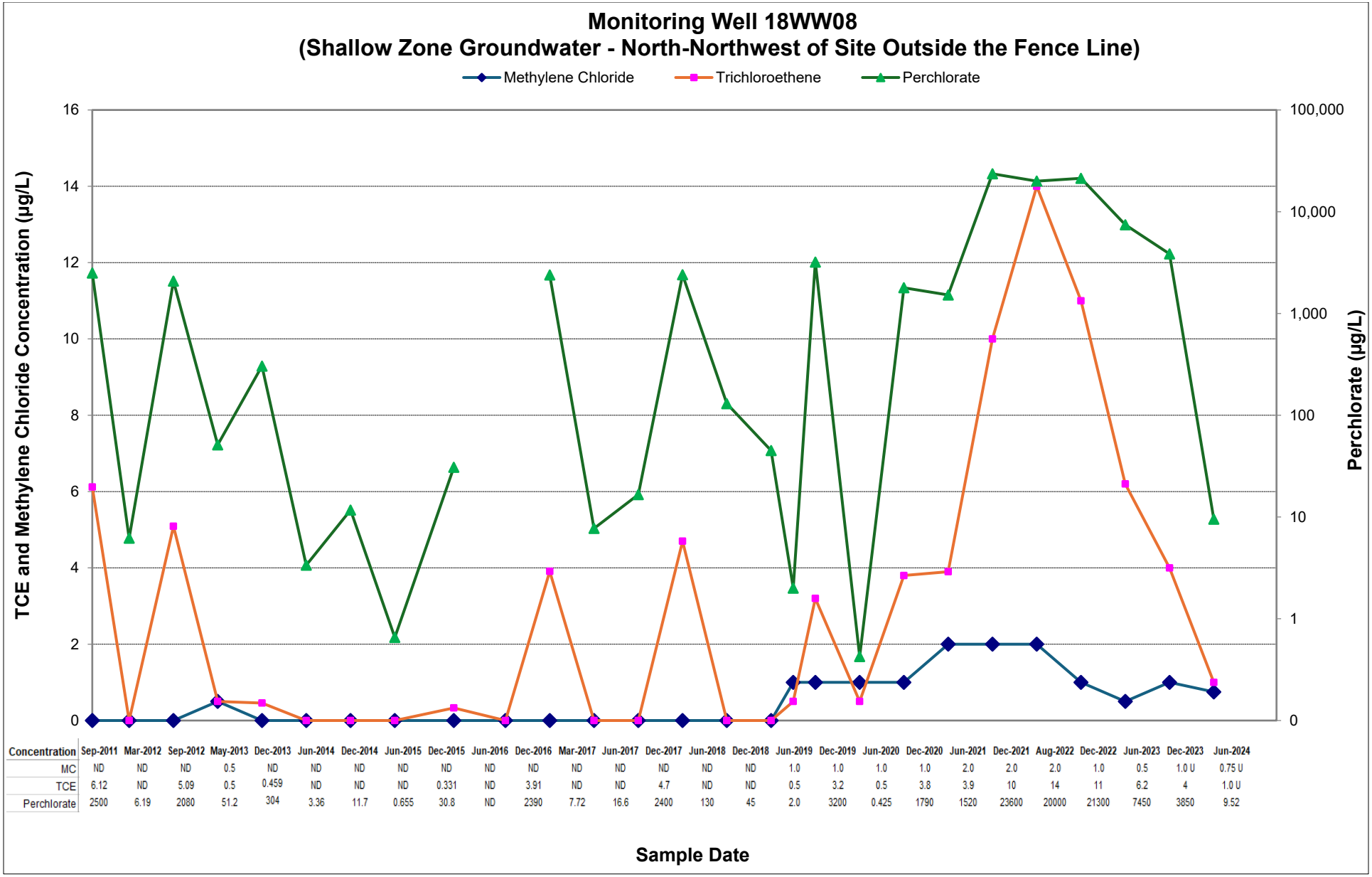
Sample Date

Monitoring Well MW-16
(Shallow Zone Groundwater - West of Site Outside of the Fence Line)



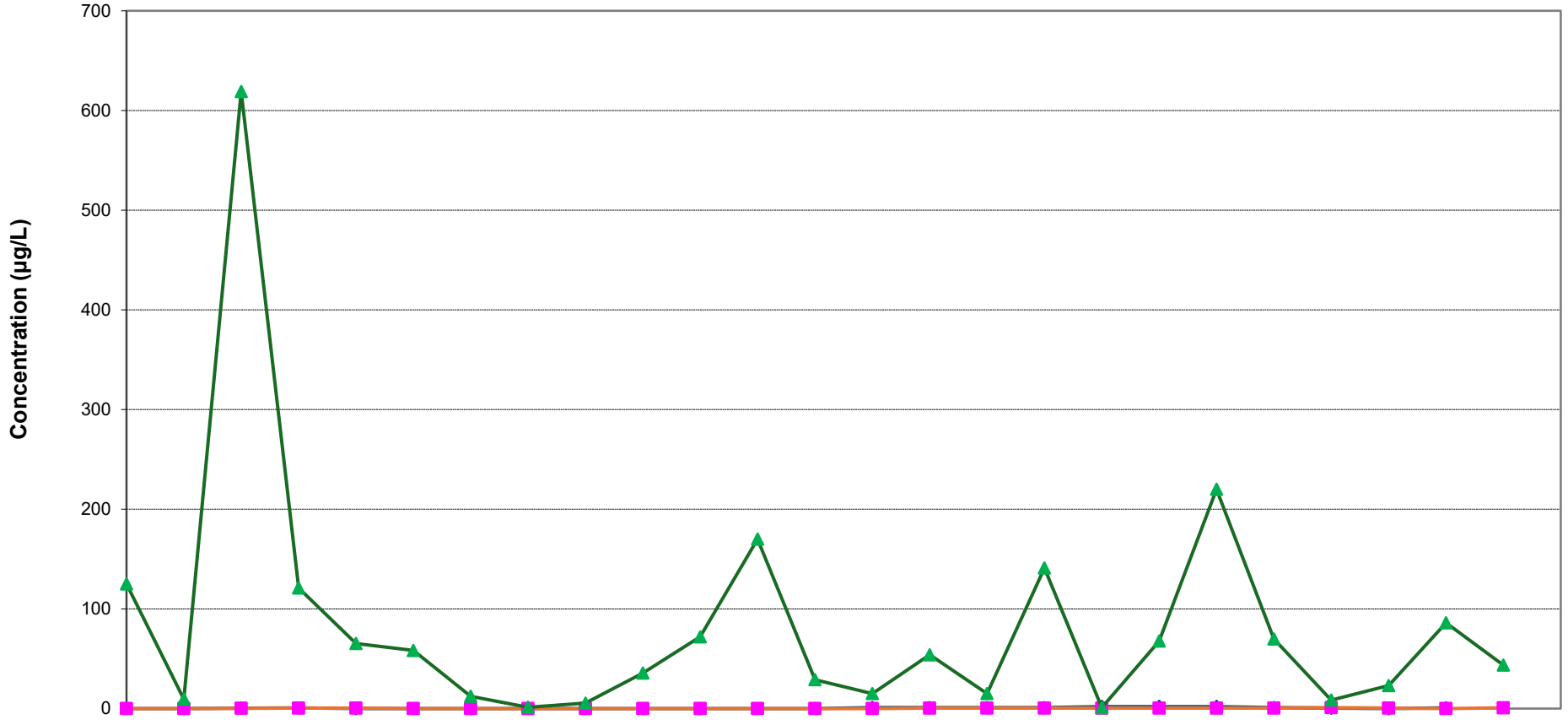
Concentration	Sep-2011	Mar-2012	Sep-2012	May-2013	Dec-2013	Jun-2014	Dec-2014	Jun-2015	Dec-2015	Jun-2016	Dec-2016	Mar-2017	Jun-2017	Dec-2017	Jun-2018	Dec-2018	Jun-2019	Dec-2019	Jun-2020	Dec-2020	Jun-2021	Dec-2021	Aug-2022	Jan-2023	Jun-2023	Dec-2023	Jun-2024
MC	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	1	1	1	2	5	2	1	0.5	1.0 U	0.75 U
TCE	8.52	59.1	38.7	89.9	36.6	559	353	1020	433	922	460	224	695	300	520	780	1200	550	1200	440	960	380	290	230	540	220	668
Perchlorate	ND	896	16.5	166	1.25	11600	3580	9370	1060	0.615	ND	1.3	ND	ND	ND	90	2900	1.8	848	1.07	0.05	0.0269	0.0518	0.05	0.05	0.0500 U	674

Monitoring Well 18WW08
(Shallow Zone Groundwater - North-Northwest of Site Outside the Fence Line)



Concentration	Sep-2011	Mar-2012	Sep-2012	May-2013	Dec-2013	Jun-2014	Dec-2014	Jun-2015	Dec-2015	Jun-2016	Dec-2016	Mar-2017	Jun-2017	Dec-2017	Jun-2018	Dec-2018	Jun-2019	Dec-2019	Jun-2020	Dec-2020	Jun-2021	Dec-2021	Aug-2022	Dec-2022	Jun-2023	Dec-2023	Jun-2024
MC	ND	ND	ND	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.0	1.0	1.0	1.0	2.0	2.0	2.0	1.0	0.5	1.0 U	0.75 U
TCE	6.12	ND	5.09	0.5	0.459	ND	ND	ND	0.331	ND	3.91	ND	ND	4.7	ND	ND	0.5	3.2	0.5	3.8	3.9	10	14	11	6.2	4	1.0 U
Perchlorate	2500	6.19	2080	51.2	304	3.36	11.7	0.655	30.8	ND	2390	7.72	16.6	2400	130	45	2.0	3200	0.425	1790	1520	23600	20000	21300	7450	3850	9.52

Monitoring Well C-03
(Wilcox Formation - Northeast of Site Outside the Fence Line)



Concentration	Sep-2011	Mar-2012	Sep-2012	May-2013	Dec-2013	Dec-2014	Jun-2015	Dec-2015	Jun-2016	Dec-2016	Jun-2017	Dec-2017	Jun-2018	Dec-2018	Jun-2019	Dec-2019	Jun-2020	Dec-2020	Jun-2021	Dec-2021	Aug-2022	Dec-2022	Jun-2023	Dec-2023	Jun-2024
MC	ND	ND	ND	0.336	0.738	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.0	1.0	1.0	1.0	2.0	2.0	2.0	1.0	0.5	< 1.0 U	0.75 U
TCE	ND	ND	0.267	0.476	0.491	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	< 1.0 U	0.75 U
Perchlorate	125	9.45	619	121	65.3	58.3	12.3	1.35	5.48	35.6	72	170	29	15	54	15	141	0.97	67.7	220	69.8	8.54	23.1	86	43.6

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APPENDIX F
GWTP WATER SAMPLING LABORATORY ANALYTICAL RESULTS
(PROVIDED ELECTRONICALLY AS A SEPARATE FILE)

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APPENDIX G
QUALITY CONTROL SUMMARY REPORT

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QUALITY CONTROL SUMMARY REPORT
2nd Quarter (April-June) 2024
GROUNDWATER TREATMENT PLANT
LONGHORN ARMY AMMUNITION PLANT
KARNACK, TEXAS

September 2024

Prepared For:

Longhorn Army Ammunition Plant
Karnack, Texas

Under Contract To:

U.S. Army Corps of Engineers
Tulsa District
Tulsa, Oklahoma

Prepared By:

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1 INTRODUCTION

Bhate reviewed 12 data packages collected June 5th-24th from Site LHAAP-18/24 and 24 data packages collected from April 2, 2024 to June 25, 2024 at the Groundwater Treatment Plant (GWTP) at the Longhorn Army Ammunition Plant (LHAAP), Karnack, Texas from ALS Environmental, Houston, Texas. Data was reviewed for conformance to the requirements of the following guidance documents: *USEPA Contract Laboratory Program* [CLP] *National Functional Guidelines for Superfund Organic Methods Data Review* (USEPA, November 2020), *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review* (USEPA, November 2020) and the *Final Basewide Uniform Federal Policy* [UFP] – *Quality Assurance Project Plan* [QAPP] *Longhorn Army Ammunition Plant* which is in Appendix C of the *Final Installation-Wide Work Plan for Longhorn Army Ammunition Plant Karnack, Texas* (Bhate, May 2018).

1.1 Intended Use of Data

The objective of sampling at LHAAP-18 and LHAAP-24 in June 2024 was to establish the annual event.

Analyses performed at LHAAP 18/24 include:

- SW8260C- Volatiles
- SW8270_SIM-1,4-Dioxane
- SW6850-Perchlorate
- SW7470A – Mercury
- SW6020A – Metals

Analyses performed at the GWTP include:

- SW6850 – Perchlorate
- E350.3 – Nitrogen, Ammonia
- E365.3 – Orthophosphate
- E415.1 – Total Organic Carbon
- SW8260C- Volatiles
- SW8270 SIM- 1,4-Dioxane
- SW6020A/7470A – Metals
- SW9056A – Chloride (Cl) and Sulfate (SO_4)
- SW7196A – Hexavalent Chromium
- TO-15 – Volatiles in Air

Table 1 and 2 lists the sample identification numbers (IDs) and their associated laboratory package.

Table 3 lists qualified results with the qualification flag and reason code.

The following narrative is a brief synopsis of data that required qualification due to quality control discrepancies.

1.2 Preservation and Holding Times

Sample identification data were evaluated for agreement with the chain-of-custody (COC). Samples 18CPTMW22SW_061224 land MW20_061224 were outside of holding time for VOCs. All associated analytes are "J" or "UJ" qualified. Trichloroethene was outside of holding time for MW22_061224 and MW22_061224-a. Both analytes are "J" qualified. Cis-1,2-dichloroethene was outside of holding time for sample 109_061224 and is "J" qualified. All other samples were received in appropriate containers, within the proper temperature range, in good condition, and within the required hold time.

1.3 Calibrations

All analytes reported must be present in the initial and continuing calibration. The calibrations must meet the acceptance criteria specified in Worksheet 24 (Analytical Instrument Calibration) of the QAPP. All results reported must be within the calibration range. Samples were diluted, if necessary, to bring analyte responses within the calibration range.

1.3.1 Continuing Calibration Verifications

The CCV recovery for all compounds was within control limits.

1.4 Blanks

If the analyte results for an associated sample met the criteria in the National Functional Guidelines for blank contamination, then the sample result was qualified based on those criteria.

Trichloroethene was detected in the trip blank for data package HS24061218. Sample 18WW08_061324 was "U" qualified and AWD4_061324 was "J+" qualified. Cis-1,2-dichloroethene also was detected in the trip blank. Associated samples AWD4_061324 was "U" qualified, 18CPTMW15_061324 was "J+"qualified, and 18WW08_061324 was "U" qualified. All other blanks were either non-detects or had detections with no associated detected analytes.

The monthly GWTP effluent sample LH18/24-SP650_050824 reported cis-1,2-dichloroethene in the method blank. It was flagged estimated with a high bias "J+".

1.5 Surrogates

Surrogates were evaluated using limits defined by each method in the project-specific QAPP Worksheet 28.

The GWTP samples LH18/24-SP650_041024, LH18/24-SP650_052124 and LH18/24-SP650_062524 reported the toluene-d8 recovery above control limits. Those detected compounds were flagged as estimated "J".

1.6 Laboratory Control Sample/Laboratory Control Sample Duplicate

Laboratory control sample/laboratory control sample duplicate (LCS/LCSD) recoveries were evaluated using limits defined in the project-specific QAPP Worksheet 15.

In package HS24061218, 1,4-Dioxane LCS/LCSD RPD was outside control limit. Samples 1824DPTMW02_061724, 18WW18_061724, CO3_061724, 1824DPTMW01_061724, 18CPTMW18_061724, and 1824DPTMW03-061724 all had the associated analyte "J" or "UJ" qualified.

The weekly perchlorate samples LH18/24-SP650_052124_BIX and LH18/24-SP650_052124_AIX reported the LCS RPD above control limits. Both sample results were flagged estimated "J".

1.7 Matrix Spike/Matrix Spike Duplicate Sample

For sample MW2_060624, both the MS/MSD recoveries were outside the upper control limit for perchlorate. The analyte has been "J" qualified. For sample MW12_061324, cis-1,2-dichloroethene the MS was recovered outside of control limits. The associated analyte has been "J" qualified.

The MS/MSD recovery of o-phosphate for GWTP sample LH18/24-SP650_041024 was recovered above control limits. This compound was flagged estimated "J". The MS recovery of TOC in sample LH18/24-SP650_041724 was below control limits and flagged estimated "J".

1.8 Internal Standards

If the %R for an internal standard in a sample is not within the limit, the associated sample is qualified for those analytes associated with the internal standard(s) outside of the limit.

Internal standards were within acceptance criteria for the associated compounds.

1.9 Field Precision

Precision is the measure of variability of individual sample measurements. Evaluation of field duplicates for precision was done using the relative percent difference (RPD). The RPD is defined as the difference between two duplicate samples divided by the mean and expressed as a percent. Field duplicate RPD limits were set at <30% for groundwater matrices.

For sample 102_060624 and duplicate 102_060624-a, aluminum, iron, and vanadium were outside of the 30% RPD range. All associated analytes are "J" qualified.

The RPD between LH18/24-Air_051324_Stripper and its duplicate was above control limits for toluene, ethanol and n-hexane. Only the higher value was reported and flagged estimated "J".

2.0 Lab Precision

The laboratory RPD were within control limits.

2.1 DATA USABILITY SUMMARY

The data are usable for the intended purposes of the project (see Table 4). The data quality objectives have been met for the project.

Table 1: Field Sample Identification and Laboratory Packages for LHAAP 18/24

Client Sample ID	Lab Package/ID	SW8260C - VOCs	SW8270_SIM – 1,4-Dioxane	SW6020-Metals	SW-7470 - Mercury	SW6850-Perchlorate
MW5_060524	HS24060293-01	X	X			X
18CPTMW08DW_060524	HS24060293-02		X			X
18CPTMW08SW_060524	HS24060293-03	X	X			X
18CPTMW03SW_060524	HS24060293-04	X	X	X	X	X
18CPTMW022DW_060524	HS24060293-05	X	X	X	X	X
18CPTMW022R_060524	HS24060293-06	X	X	X	X	X
CG-052424-73	HS24060293-07	X				
MW2_060624	HS24060434-01	X	X			X
18CPTMW01DW_060624	HS24060434-02	X	X	X	X	X
18CPTMW01SW_060624	HS24060434-03	X	X	X	X	X
102_060624	HS24060434-04	X		X	X	X
102_060624_a	HS24060434-05	X		X	X	X
18CPTMW07_060624	HS24060434-06	X	X			X
18CPTMW24_060624	HS24060434-07	X	X			X
MW8_060624	HS24060434-08	X	X			X
18WW14_060624	HS24060434-09			X	X	X
Trip Blank	HS24060434-10	X				
18CPTMW04SW_060724	HS24060487-01	X	X	X	X	X
18CPTMW04_060724	HS24060487-02	X	X			X
AWD3_060724	HS24060487-03	X		X	X	X
MW1_060724	HS24060487-04	X		X	X	X
MW1_060724_a	HS24060487-05	X		X	X	X
18ww06_060724	HS24060487-06	X	X			X
18ww02_060724	HS24060487-07	X	X	X	X	X
18CPTMW23SW_060724	HS24060487-08	X	X			X
18CPTMW23_060724	HS24060487-09	X	X			X
Trip Blank	HS24060487-10	X				
MW3_061124	HS24060694-01	X		X	X	X
18CPTMW12SW_061124	HS24060694-02	X	X	X	X	X
18CPTMW12DW_061124	HS24060694-03	X	X	X	X	X
MW7_061124	HS24060694-04	X	X			X
18CPTMW26SW_061124	HS24060694-05	X	X			X
130_061124	HS24060694-06	X		X	X	X
18CPTMW19_061124	HS24060694-07	X	X			X
18CPTMW19SW_061124	HS24060694-08	X	X	X	X	X
Trip Blank	HS24060694-09	X				
1824DPTMW05_061024	HS24060747-01	X	X			X
1824DPTMW05_061024_a	HS24060747-02	X	X			X

129_061024	HS24060747-03	X	X	X	X	X
120_061024	HS24060747-04	X	X			X
MW14_061024	HS24060747-05	X	X	X	X	X
MW23_061024	HS24060747-06	X				X
CO9_061024	HS24060747-07	X		X	X	X
CO1_061024	HS24060747-08	X				X
126_061024	HS24060747-09	X	X	X	X	X
Trip Blank	HS24060747-10	X				
AWD1_061224	HS24060795-01		X			
18CPTMW06_06224	HS24060795-02	X	X			X
MW22_061224	HS24060795-03	X		X	X	X
MW22_06224_a	HS24060795-04	X		X	X	X
MW6_06224	HS24060795-05	X		X	X	X
109_06224	HS24060795-06	X	X			X
MW21_06224	HS24060795-07	X	X	X	X	X
18CPTMW22SW_06224	HS24060795-08	X	X	X	X	X
MW20_06224	HS24060795-09	X		X	X	X
Trip Blank	HS24060795-10	X				
MW12_061324	HS24060899-01	X				X
1824DPTMW06_061324	HS24060899-02	X	X			X
AWD4_061324	HS24060899-03	X	X	X	X	X
18CPTMW15_061324	HS24060899-04	X	X			X
18WW09_061324	HS24060899-05		X	X	X	X
18WW08_061324	HS24060899-06	X	X			X
18WW22_061324	HS24060899-07	X	X	X	X	X
CO4_061324	HS24060899-08	X				X
Trip Blank	HS24060899-09	X				
18CPTMW10DW_061424	HS24060985-01	X		X	X	X
18CPTMW10DW_061424_a	HS24060985-02	X		X	X	X
18CPTMW10SW_061424	HS24060985-03	X	X			X
MW9_061424	HS24060985-04	X	X	X	X	X
MW10_-061424	HS24060985-05	X	X			X
18WW10_061424	HS24060985-06	X	X			X
MW17_061424	HS24060985-07		X			X
MW16_061424	HS24060985-08	X	X			X
17WW08_061424	HS24060985-09	X		X	X	X
17WW08_061424_a	HS24060985-10	X		X	X	X
Trip Blank	HS24060985-11	X				
18CPTMW14_061824	HS24061196-01	X	X	X	X	X
18WW03_061824	HS24061196-02	X	X	X	X	X
CO8_061824	HS24061196-03	X	X			X
1824DPTMW04_061824	HS24061196-04	X	X			X
18WW24_061824	HS24061196-05	X		X	X	X
18WW24_061824_a	HS24061196-06	X		X	X	X
CO2_061824	HS24061196-07	X				X
MW13_061824	HS24061196-08	X		X	X	X
MW13_061824_a	HS24061196-09	X		X	X	X
CO6_061824	HS24061196-10	X		X	X	X
Trip Blank	HS24061196-11	X				
1824DPTMW02_061724	HS24061218-01	X	X			X
18WW18_061724	HS24061218-02	X	X	X	X	X
CO3_061724	HS24061218-03	X	X	X	X	X
1824DPTMW01_061724	HS24061218-04	X	X			X
18CPTMW18_061724	HS24061218-05	X	X	X	X	X
1824DPTMW03_061724	HS24061218-06	X	X			X
MW19_061724	HS24061218-07	X		X	X	X
MW18_061724	HS24061218-08	X				X
Trip Blank	HS24061218-09	X				
18WW19_061924	HS24061313-01	X		X	X	X
18WW20_061924	HS24061313-02	X	X	X	X	X
18WW25_061924	HS24061313-03	X	X	X	X	X
125_061924	HS24061313-04	X		X	X	X
18CPTMW16_061924	HS24061313-05		X			X

18CPTMW16_061924_a	HS24061313-06		X			X
Trip Blank	HS24061313-07	X				
ICT2_062024	HS24061330-01	X		X	X	X
ICT4_062024	HS24061330-02	X		X	X	X
ICT7_062024	HS24061330-03	X		X	X	X
ICT8_062024	HS24061330-04	X		X	X	X
ICT11_062024	HS24061330-05	X		X	X	X
ICT12A_062024	HS24061330-06	X		X	X	X
ICT12B_062024	HS24061330-07	X		X	X	X
ICT12C_062024	HS24061330-08	X		X	X	X
ICT12D_062024	HS24061330-09	X		X	X	X
ICT12D_062024_a	HS24061330-10	X		X	X	X
ICT12E_062024	HS24061330-11	X		X	X	X
ICT13A_062024	HS24061330-12	X		X	X	X
ICT13B_062024	HS24061330-13	X		X	X	X
ICT13C_062024	HS24061330-14	X		X	X	X
ICT13D_062024	HS24061330-15	X		X	X	X
ICT13D_062024_a	HS24061330-16	X		X	X	X
ICT13E_062024	HS24061330-17	X		X	X	X
ICT13F_062024	HS24061330-18	X		X	X	X
ICT14A_062024	HS24061330-19	X		X	X	X
ICT14B_062024	HS24061330-20	X		X	X	X
ICT14C_062024	HS24061330-21	X		X	X	X
ICT14D_062024	HS24061330-22	X		X	X	X
ICT14E_062024	HS24061330-23	X		X	X	X
Trip Blank	HS24061330-24	X				

Table 2: Field Sample Identification and Laboratory Packages for GWTP

Client Sample ID	Lab Package	SW6850	E350.3	E365.3	E415.1	SW8270 SIM	SW8260C	SW6020A	SW9056A	SW7196A	E410.4	1664A	TO-15
GWTP Samples													
LH18/24-SP650_040224	HS24040371						X		X				
LH18/24-SP650_040224_BIX/AIX	HS24040221	X	X	X	X								
LH18/24-SP650_041024_BIX/AIX	HS24040798	X	X	X	X								
LH18/24-SP650_041024_AIX	HS24040786	X				X	X	X		X			
LH18/24-SP140_041024	HS24040784	X						X		X			
LH18/24-SP650_041724_BIX/AIX	HS24041274	X	X	X	X								
LH18/24-SP650_041724	HS24041309						X		X				
LH18/24-SP650_042424_BIX/AIX	HS24041715	X	X	X	X								
LH18/24-SP650_050124_BIX/AIX	HS24050103	X	X	X	X								
LH18/24-SP650_050124	HS24050146						X		X				
LH18/24-SP650_050824_BIX/AIX	HS24050528	X	X	X	X								
LH18/24-SP140_050824	HS24050529	X						X		X			
LH18/24-SP650_050824_AIX	HS24050531	X				X	X	X		X			
LH18/24-SP650_051424	HS24050838						X			X			
LH18/24-SP650_051424_BIX/AIX	HS24050826	X	X	X	X								
LH18/24-SP650_052124_BIX/AIX	HS24051271	X	X	X	X								
LH18/24-SP650_052124	HS24051276	X				X	X	X	X		X	X	
LH18/24-SP140_052124	HS24051277	X				X	X	X	X		X	X	
LH18/24-SP650_061224_AIX/BIX	HS24060770	X	X	X	X								
LH18/24-SP650_061224	HS24060781						X		X				
LH18/24-SP650_061824_BIX/AIX	HS24061164	X	X	X	X								

LH18/24-SP650_062524_BIX/AIX	HS24061572	X	X	X	X								
LH18/24-SP650_062524	HS24061581						X		X				
Air Samples													
LH18/24-Air_051324_Stripper	P2402006												X
LH18/24-Air_051324_Stripper_a	P2402006												X
LH18/24-Air_051324_GWTP	P2402006												X
LH18/24-Air_051324_Downwind	P2402006												X

GWTP – Groundwater Treatment Plant
ID – Identification
SIM – Select Ion Monitoring, SW-846 - Test Methods for Evaluating Solid Waste, Physical/Chemical Methods.
E – U.S. Environmental Protection Agency Method
HS – Houston

Table 3: Qualified Analytical Data

Client Sample ID Laboratory	Laboratory Package	Analyte Name	Data Validation Qualifier and Value (ug/L)	Reason for Qualification
MW2_060624	HS24060434	Perchlorate	0.121 J	MS/MSD
102_060624	HS24060434	Aluminum	0.481 J	FD RPD
102_060624	HS24060434	Iron	0.411 J	FD RPD
102_060624	HS24060434	Vanadium	0.00191 J	FD RPD
102_060624_a	HS24060434	Aluminum	0.254 J	FD RPD
102_060624_a	HS24060434	Iron	0.143 J	FD RPD
102_060624_a	HS24060434	Vanadium	0.00126 J	FD RPD
18CPTMW22SW_062224	HS24060795	1,1,1,2-Tetrachloroethane	0.75 UJ	HT
18CPTMW22SW_062224	HS24060795	1,1,1-Trichloroethane	0.75 UJ	HT
18CPTMW22SW_062224	HS24060795	1,1,2,2-Tetrachloroethane	0.75 UJ	HT
18CPTMW22SW_062224	HS24060795	1,1,2-Trichloroethane	0.75 UJ	HT
18CPTMW22SW_062224	HS24060795	1,1-Dichloroethane	0.75 UJ	HT
18CPTMW22SW_062224	HS24060795	1,1-Dichloroethene	0.75 UJ	HT
18CPTMW22SW_062224	HS24060795	1,1-Dichloropropene	0.75 UJ	HT
18CPTMW22SW_062224	HS24060795	1,2,3-Trichlorobenzene	0.75 UJ	HT
18CPTMW22SW_062224	HS24060795	1,2,3-Trichloropropane	2.5 UJ	HT
18CPTMW22SW_062224	HS24060795	1,2,4-Trichlorobenzene	0.75 UJ	HT
18CPTMW22SW_062224	HS24060795	1,2,4-Trimethylbenzene	0.75 UJ	HT
18CPTMW22SW_062224	HS24060795	1,2-Dibromo-3-chloropropane	2.5 UJ	HT
18CPTMW22SW_062224	HS24060795	1,2-Dibromoethane	0.75 UJ	HT
18CPTMW22SW_062224	HS24060795	1,2-Dichlorobenzene	0.75 UJ	HT
18CPTMW22SW_062224	HS24060795	1,2-Dichloroethane	0.75 UJ	HT
18CPTMW22SW_062224	HS24060795	1,2-Dichloropropane	0.75 UJ	HT
18CPTMW22SW_062224	HS24060795	1,3,5-Trimethylbenzene	0.75 UJ	HT
18CPTMW22SW_062224	HS24060795	1,3-Dichlorobenzene	0.75 UJ	HT
18CPTMW22SW_062224	HS24060795	1,3-Dichloropropane	0.75 UJ	HT
18CPTMW22SW_062224	HS24060795	1,4-Dichlorobenzene	0.75 UJ	HT
18CPTMW22SW_062224	HS24060795	2,2-Dichloropropane	0.75 UJ	HT
18CPTMW22SW_062224	HS24060795	2-Butanone	3.8 UJ	HT
18CPTMW22SW_062224	HS24060795	2-Chlorotoluene	0.75 UJ	HT

18CPTMW22SW_062224	HS24060795	2-Hexanone	3.8 UJ	HT
18CPTMW22SW_062224	HS24060795	4-Chlorotoluene	0.75 UJ	HT
18CPTMW22SW_062224	HS24060795	4-Isopropyltoluene	0.75 UJ	HT
18CPTMW22SW_062224	HS24060795	4-Methyl-2-pentanone	3.8 UJ	HT
18CPTMW22SW_062224	HS24060795	Acetone	17.2 J	HT
18CPTMW22SW_062224	HS24060795	Benzene	0.75 UJ	HT
18CPTMW22SW_062224	HS24060795	Bromobenzene	0.75 UJ	HT
18CPTMW22SW_062224	HS24060795	Bromochloromethane	0.75 UJ	HT
18CPTMW22SW_062224	HS24060795	Bromodichloromethane	0.75 UJ	HT
18CPTMW22SW_062224	HS24060795	Bromoform	0.75 UJ	HT
18CPTMW22SW_062224	HS24060795	Bromomethane	0.75 UJ	HT
18CPTMW22SW_062224	HS24060795	Carbon disulfide	0.75 UJ	HT
18CPTMW22SW_062224	HS24060795	Carbon tetrachloride	0.75 UJ	HT
18CPTMW22SW_062224	HS24060795	Chlorobenzene	0.75 UJ	HT
18CPTMW22SW_062224	HS24060795	Chloroethane	0.75 UJ	HT
18CPTMW22SW_062224	HS24060795	Chloroform	0.75 UJ	HT
18CPTMW22SW_062224	HS24060795	Chloromethane	0.75 UJ	HT
18CPTMW22SW_062224	HS24060795	cis-1,2-Dichloroethene	0.75 UJ	HT
18CPTMW22SW_062224	HS24060795	cis-1,3-Dichloropropene	0.75 UJ	HT
18CPTMW22SW_062224	HS24060795	Dibromochloromethane	0.75 UJ	HT
18CPTMW22SW_062224	HS24060795	Dibromomethane	0.75 UJ	HT
18CPTMW22SW_062224	HS24060795	Dichlorodifluoromethane	0.75 UJ	HT
18CPTMW22SW_062224	HS24060795	Ethylbenzene	0.75 UJ	HT
18CPTMW22SW_062224	HS24060795	Hexachlorobutadiene	3.8 UJ	HT
18CPTMW22SW_062224	HS24060795	Isopropylbenzene	0.75 UJ	HT
18CPTMW22SW_062224	HS24060795	m,p-Xylene	1.5 UJ	HT
18CPTMW22SW_062224	HS24060795	Methylene chloride	0.75 UJ	HT
18CPTMW22SW_062224	HS24060795	Naphthalene	0.75 UJ	HT
18CPTMW22SW_062224	HS24060795	n-Butylbenzene	0.75 UJ	HT
18CPTMW22SW_062224	HS24060795	n-Propylbenzene	0.75 UJ	HT
18CPTMW22SW_062224	HS24060795	o-Xylene	0.75 UJ	HT
18CPTMW22SW_062224	HS24060795	sec-Butylbenzene	0.75 UJ	HT
18CPTMW22SW_062224	HS24060795	Styrene	0.75 UJ	HT
18CPTMW22SW_062224	HS24060795	tert-Butylbenzene	0.75 UJ	HT
18CPTMW22SW_062224	HS24060795	Tetrachloroethene	0.75 UJ	HT
18CPTMW22SW_062224	HS24060795	Toluene	0.75 UJ	HT
18CPTMW22SW_062224	HS24060795	trans-1,2-Dichloroethene	0.75 UJ	HT
18CPTMW22SW_062224	HS24060795	trans-1,3-Dichloropropene	1.2 J	HT
18CPTMW22SW_062224	HS24060795	Trichloroethene	0.75 UJ	HT
18CPTMW22SW_062224	HS24060795	Trichlorofluoromethane	0.75 UJ	HT
18CPTMW22SW_062224	HS24060795	Vinyl chloride	0.75 UJ	HT
MW20_061224	HS24060795	1,1,1,2-Tetrachloroethane	0.75 UJ	HT
MW20_061224	HS24060795	1,1,1-Trichloroethane	0.75 UJ	HT
MW20_061224	HS24060795	1,1,2,2-Tetrachloroethane	0.75 UJ	HT
MW20_061224	HS24060795	1,1,2-Trichloroethane	0.75 UJ	HT
MW20_061224	HS24060795	1,1-Dichloroethane	0.75 UJ	HT
MW20_061224	HS24060795	1,1-Dichloroethene	0.75 UJ	HT

MW20_061224	HS24060795	1,1-Dichloropropene	0.75 UJ	HT
MW20_061224	HS24060795	1,2,3-Trichlorobenzene	0.75 UJ	HT
MW20_061224	HS24060795	1,2,3-Trichloropropane	2.5 UJ	HT
MW20_061224	HS24060795	1,2,4-Trichlorobenzene	0.75 UJ	HT
MW20_061224	HS24060795	1,2,4-Trimethylbenzene	0.75 UJ	HT
MW20_061224	HS24060795	1,2-Dibromo-3-chloropropane	2.5 UJ	HT
MW20_061224	HS24060795	1,2-Dibromoethane	0.75 UJ	HT
MW20_061224	HS24060795	1,2-Dichlorobenzene	0.75 UJ	HT
MW20_061224	HS24060795	1,2-Dichloroethane	0.75 UJ	HT
MW20_061224	HS24060795	1,2-Dichloropropane	0.75 UJ	HT
MW20_061224	HS24060795	1,3,5-Trimethylbenzene	0.75 UJ	HT
MW20_061224	HS24060795	1,3-Dichlorobenzene	0.75 UJ	HT
MW20_061224	HS24060795	1,3-Dichloropropane	0.75 UJ	HT
MW20_061224	HS24060795	1,4-Dichlorobenzene	0.75 UJ	HT
MW20_061224	HS24060795	2,2-Dichloropropane	0.75 UJ	HT
MW20_061224	HS24060795	2-Butanone	3.8 UJ	HT
MW20_061224	HS24060795	2-Chlorotoluene	0.75 UJ	HT
MW20_061224	HS24060795	2-Hexanone	3.8 UJ	HT
MW20_061224	HS24060795	4-Chlorotoluene	0.75 UJ	HT
MW20_061224	HS24060795	4-Isopropyltoluene	0.75 UJ	HT
MW20_061224	HS24060795	4-Methyl-2-pentanone	3.8 UJ	HT
MW20_061224	HS24060795	Acetone	3.8 UJ	HT
MW20_061224	HS24060795	Benzene	0.75 UJ	HT
MW20_061224	HS24060795	Bromobenzene	0.75 UJ	HT
MW20_061224	HS24060795	Bromochloromethane	0.75 UJ	HT
MW20_061224	HS24060795	Bromodichloromethane	0.75 UJ	HT
MW20_061224	HS24060795	Bromoform	0.75 UJ	HT
MW20_061224	HS24060795	Bromomethane	0.75 UJ	HT
MW20_061224	HS24060795	Carbon disulfide	0.75 UJ	HT
MW20_061224	HS24060795	Carbon tetrachloride	0.75 UJ	HT
MW20_061224	HS24060795	Chlorobenzene	0.75 UJ	HT
MW20_061224	HS24060795	Chloroethane	0.75 UJ	HT
MW20_061224	HS24060795	Chloroform	0.75 UJ	HT
MW20_061224	HS24060795	Chloromethane	0.75 UJ	HT
MW20_061224	HS24060795	cis-1,2-Dichloroethene	0.75 UJ	HT
MW20_061224	HS24060795	cis-1,3-Dichloropropene	0.75 UJ	HT
MW20_061224	HS24060795	Dibromochloromethane	0.75 UJ	HT
MW20_061224	HS24060795	Dibromomethane	0.75 UJ	HT
MW20_061224	HS24060795	Dichlorodifluoromethane	0.75 UJ	HT
MW20_061224	HS24060795	Ethylbenzene	0.75 UJ	HT
MW20_061224	HS24060795	Hexachlorobutadiene	3.8 UJ	HT
MW20_061224	HS24060795	Isopropylbenzene	0.75 UJ	HT
MW20_061224	HS24060795	m,p-Xylene	1.5 UJ	HT
MW20_061224	HS24060795	Methylene chloride	0.75 UJ	HT
MW20_061224	HS24060795	Naphthalene	0.75 UJ	HT
MW20_061224	HS24060795	n-Butylbenzene	0.75 UJ	HT
MW20_061224	HS24060795	n-Propylbenzene	0.75 UJ	HT

MW20_061224	HS24060795	o-Xylene	0.75 UJ	HT
MW20_061224	HS24060795	sec-Butylbenzene	0.75 UJ	HT
MW20_061224	HS24060795	Styrene	0.75 UJ	HT
MW20_061224	HS24060795	tert-Butylbenzene	0.75 UJ	HT
MW20_061224	HS24060795	Tetrachloroethene	0.75 UJ	HT
MW20_061224	HS24060795	Toluene	0.75 UJ	HT
MW20_061224	HS24060795	trans-1,2-Dichloroethene	0.75 UJ	HT
MW20_061224	HS24060795	trans-1,3-Dichloropropene	0.75 UJ	HT
MW20_061224	HS24060795	Trichloroethene	0.75 UJ	HT
MW20_061224	HS24060795	Trichlorofluoromethane	0.75 UJ	HT
MW20_061224	HS24060795	Vinyl chloride	0.75 UJ	HT
MW22_061224	HS24060795	Trichloroethene	172 J	HT/ FD RPD
MW22_061224_A	HS24060795	Trichloroethene	334 J	HT/ FD RPD
109_06224	HS24060795	cis-1,2-Dichloroethene	777 J	HT
1824DPTMW02_061724	HS24061218	1,4-Dioxane	0.059 J	LCS/LCSD
18WW18_061724	HS24061218	1,4-Dioxane	0.020 UJ	LCS/LCSD
CO3_061724	HS24061218	1,4-Dioxane	0.020 UJ	LCS/LCSD
1824DPTMW01_061724	HS24061218	1,4-Dioxane	0.020 UJ	LCS/LCSD
18CPTMW18_061724	HS24061218	1,4-Dioxane	0.020 UJ	LCS/LCSD
1824DPTMW03_061724	HS24061218	1,4-Dioxane	0.020 UJ	LCS/LCSD
18WW08_061324	HS24060899	Trichloroethene	1.0 U	TB
18WW08_061324	HS24060899	cis-1,2-Dichloroethene	0.33 U	TB
AWD4_061324	HS24060899	Trichloroethene	2.9 J+	TB
AWD4_061324	HS24060899	cis-1,2-Dichloroethene	1.0 U	TB
18CPTMW15_061324	HS24060899	cis-1,2-Dichloroethene	2.1 J+	TB
MW12_061324	HS24060899	cis-1,2-Dichloroethene	56.9 J	MS/MSD
18CPTMW10SW_061424	HS24060985	1,4-Dioxane	0.020 UJ	LCS/LCSD
MW9_061424	HS24060985	1,4-Dioxane	0.19 J	LCS/LCSD
MW10_-061424	HS24060985	1,4-Dioxane	0.011 J	LCS/LCSD
18WW10_061424	HS24060985	1,4-Dioxane	0.013 J	LCS/LCSD
MW17_061424	HS24060985	1,4-Dioxane	0.018 J	LCS/LCSD
MW16_061424	HS24060985	1,4-Dioxane	2.1 J	LCS/LCSD
GWTP				
LH18/24-SP650_041024	HS24040798	o-phosphate	5.58 J	MS/MSD
LH18/24-SP650_041024	HS24040786	Cis 1,2-dichloroethene Trichloroethene	1.6 J 0.37 J	Surr >
LH18/24-SP650_041724	HS24041274	Total Organic Carbon	17.9 J	MS
LH18/24-SP650_050824	HS24050531	Cis-1,2-Dichloroethene	3.1 J+	MB
LH18/24-SP650_052124_BIX LH18/24-SP650_052124_AIX	HS24051271	Perchlorate	9.41 J 0.150 J	LCS RPD
LH18/24-SP650_052124	HS24051276	Cis-1,2-Dichloroethene	1.8 J	Surr >
LH18/24-SP650_062524	HS24061581	Cis-1,2-DIchloroethene	2.4 J	Surr >
LH18/24-Air_051324_Stripper_a	P2402006	n-hexane Toluene Ethanol	2.7 J 2.6 J 15 J	FD RPD

Notes: HT – hold time exceedance, FD RPD – field duplicate relative percent difference outside control limits, LCS/LCSD – laboratory control sample/duplicate outside control limits, MS/MSD – matrix spike/duplicate outside control limits, Surr > -surrogate above control limits, LCS RPD – laboratory control sample relative percent difference outside control limits, MB – method blank, J – estimated value between the detection limit and limit of quantitation or due to quality control discrepancies, UJ – estimated non-detect due to quality control discrepancies, J+ -estimated biased high, U – non-detect reported to the limit of detection

Table 4: Completeness by Method

Method	No. of Rejected Results	% Completeness
SW6850	0	100
E350.3	0	100
E365.3	0	100
E415.1	0	100
SW8270 SIM	0	100
SW8260C	0	100
SW6020A/7470A	0	100
SW9056A	0	100
SW7196A	0	100
TO-15	0	100
SW-846 - Test Methods for Evaluating Solid Waste, Physical/Chemical Methods		

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APPENDIX H
AIR MONITORING ANALYTICAL LABORATORY REPORT

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LABORATORY REPORT

June 4, 2024

Marcia Olive
Bhate Environmental Associates, Inc.
445 Union Blvd., Suite 129
Lakewood, CO 80228

RE: LHAAP GWTP / JUPCIBH.0001

Dear Marcia:

Enclosed are the results of the samples submitted to our laboratory on May 20, 2024. For your reference, these analyses have been assigned our service request number P2402006.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

ALS | Environmental

shaarazetta.robinson 6/4/24 2:16 pm

Shaarazetta Robinson
Project Manager

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2655 Park Center Dr., Suite A
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Client: Bhate Environmental Associates, Inc. Service Request No: P2402006
Project: LHAAP GWTP / JUPCIBH.0001

CASE NARRATIVE

The samples were received intact under chain of custody on May 20, 2024 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Volatile Organic Compound Analysis

The samples were analyzed for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph/mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

The containers were cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. For projects requiring DoD QSM 5.4 compliance canisters were cleaned to <1/2 the MRL. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

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CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
Alaska DEC	https://dec.alaska.gov/spar/csp/lab-approval/list-of-approved-labs	17-019
Arizona DHS	http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home	AZ0694
Florida DOH (NELAP)	http://www.floridahealth.gov/licensing-and-regulation/environmental-laboratories/index.html	E871020
Louisiana DEQ (NELAP)	https://internet.deq.louisiana.gov/portal/divisions/lelap/accredited-laboratories	05071
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtm	2022028
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	006-999-456
New Jersey DEP (NELAP)	https://dep.nj.gov/dsr/oqa/certified-laboratories/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oklahoma DEQ (NELAP)	labaccreditation.deq.ok.gov/labaccreditation/	2207
Oregon PHD (NELAP)	http://www.oregon.gov/oha/ph/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-012
Pennsylvania DEP	hhttp://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx	68-03307 (Registration)
PJLA (DoD ELAP)	http://www.pjlabs.com/search-accredited-labs	65818 (Testing)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/agency/qa/env_lab_accreditation.html	T104704413-23-14
Utah DOH (NELAP)	https://uphl.utah.gov/certifications/environmental-laboratory-certification/	CA016272023-15
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Bhate Environmental Associates, Inc. Service Request: P2402006

Project ID: LHAAP GWTP / JUPCIBH.0001

Date Received: 5/20/2024

Time Received: 09:25

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pfl (psig)	TO-15 - VOC Cans
LH18/24-Air_051324_Stripper	P2402006-001	Air	5/13/2024	14:00	AC02458	0.02	3.60	X
LH18/24-Air_051324_Stripper_a	P2402006-002	Air	5/13/2024	14:00	AC01876	0.02	3.67	X
LH18/24-Air_051324_GWTP	P2402006-003	Air	5/13/2024	14:15	AS00091	-1.28	3.65	X
LH18/24-Air_051324_Downwind	P2402006-004	Air	5/13/2024	07:00	AS01435	-0.73	3.78	X

01291046

Air - Chain of Custody Record & Analytical Service Request

Page 1 of 1

P2402006

2655 Park Center Drive, Suite A
Simi Valley, California 93065
Phone (805) 526-7161

Requested Turnaround Time in Business Days (Surcharges) please circle
1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day-Standard

ALS Project No.

ALS Contact:

Company Name & Address (Reporting Information)
BHATE ENVIRONMENTAL
445 UNION BLVD. STE. 129
LAKEWOOD, CO. 80228

Project Name: [redacted] LHAAP-GWTP

Project Number: JUPCI BH.0001

P.O. # / Billing Information

Project Manager: ZACK BECK

Phone: 205-918-4000

Fax:

Email Address for Result Reporting: molive@bhate.com

Sampler (Print & Sign): SCOTT BEESINGER Scott Beesinger

Analysis Method

Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Canister Start Pressure "Hg	Canister End Pressure "Hg/psig	Sample Volume	TO-15		Comments e.g. Actual Preservative or specific instructions
LH18/24-AIR_051324_Stripper		5/13/24	1400	AC02458		-30	0	6L	X		
LH18/24-AIR_051324_Stripper_a		5/13/24	1400	AC01876		-28	0	6L	X		
LH18/24-AIR_051324_GWTP		5/13/24	1415	AS00091	SFC00562	-26	-4	6L	X		
LH18/24-AIR_051324_Downwind		5/13/24	0700	AS01435	SFC00029	-28	-2	6L	X		

Report Tier Levels - please select

Tier I - Results (Default if not specified) ____
Tier II (Results + QC Summaries) ____
Tier III (Results + QC & Calibration Summaries) ____
Tier IV (Data Validation Package) 10% Surcharge ____

EDD required Yes / No
Type: _____ Units: _____

Chain of Custody Seal: (Circle)
INTACT BROKEN ABSENT

Project Requirements (MRLs, QAPP)

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Scott Beesinger	5/14/24	0730	FEDEX		
FEDEX				5.20.24	0925

Cooler / Blank Temperature ____°C

ALS Environmental
Sample Acceptance Check Form

Client: Bhate Environmental Associates, Inc. Work order: P2402006

Project: LHAAP GWTP / JUPCINH.0001

Sample(s) received on: 5/20/2024 Date opened: 5/20/2024 by: ANTHONY.VASQUEZ

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

		Yes	No	N/A
1	Were **sample containers** properly marked with client sample ID?	☒	☐	☐
2	Did **sample containers** arrive in good condition?	☒	☐	☐
3	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
4	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
5	Was **sample volume** received adequate for analysis?	☒	☐	☐
6	Are samples within specified holding times?	☒	☐	☐
7	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
8	Were **custody seals** on outside of cooler/Box/Container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
9	Do containers have appropriate **preservation**, according to method/SOP or Client specified information?	☐	☐	☒
	Is there a client indication that the submitted samples are **pH** preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒
10	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
11	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒
12	Lab Notification: Analyst and PM were alerted of Short HT or RUSH samples?	☐	☐	☒
13	Client Notification: Client has been notified regarding HT exceedances and/or other CoC discrepancies?	☐	☐	☒

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P2402006-001.01	6.0 L Ambient Can					
P2402006-002.01	6.0 L Ambient Can					
P2402006-003.01	6.0 L Silonite Can					
P2402006-004.01	6.0 L Silonite Can					

Explain any discrepancies: (include lab sample ID numbers):

Sulfur (pH>4)

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Bhate Environmental Associates, Inc.**
Client Sample ID: **LH18/24-Air_051324_Stripper** ALS Project ID: P2402006
Client Project ID: **LHAAP GWTP / JUPCIBH.0001** ALS Sample ID: P2402006-001

Test Code: EPA TO-15 Date Collected: 5/13/24
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: 5/20/24
Analyst: Simon Cao Date Analyzed: 5/29/24
Sample Type: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes: 0.025 Liter(s)
Container ID: AC02458

Initial Pressure (psig): 0.02 Final Pressure (psig): 3.60

Canister Dilution Factor: 1.24

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	**5.9**	0.66	**3.4**	0.38	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.4**	0.64	**0.49**	0.13	
74-87-3	Chloromethane	ND	0.67	ND	0.32	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.68	ND	0.098	
75-01-4	Vinyl Chloride	**120**	26	**47**	10	**D**
106-99-0	1,3-Butadiene	ND	0.66	ND	0.30	
74-83-9	Bromomethane	ND	0.63	ND	0.16	
75-00-3	Chloroethane	ND	0.68	ND	0.26	
64-17-5	Ethanol	**6.7**	6.1	**3.6**	3.3	
75-05-8	Acetonitrile	ND	1.2	ND	0.71	
107-02-8	Acrolein	ND	1.3	ND	0.58	
67-64-1	Acetone	**160**	6.3	**66**	2.7	
75-69-4	Trichlorofluoromethane (CFC 11)	**1.4**	0.63	**0.25**	0.11	
67-63-0	2-Propanol (Isopropyl Alcohol)	**2.3**	1.2	**0.93**	0.50	
107-13-1	Acrylonitrile	ND	1.2	ND	0.57	
75-35-4	1,1-Dichloroethene	**67**	0.56	**17**	0.14	
75-09-2	Methylene Chloride	**6.0**	0.57	**1.7**	0.16	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.67	ND	0.21	
76-13-1	Trichlorotrifluoroethane (CFC 113)	**3,600**	22	**470**	2.9	**D**
75-15-0	Carbon Disulfide	ND	1.3	ND	0.41	
156-60-5	trans-1,2-Dichloroethene	**14**	0.66	**3.5**	0.17	
75-34-3	1,1-Dichloroethane	**10**	0.64	**2.5**	0.16	
1634-04-4	Methyl tert-Butyl Ether	ND	0.67	ND	0.19	
108-05-4	Vinyl Acetate	ND	6.7	ND	1.9	
78-93-3	2-Butanone (MEK)	**27**	1.3	**9.2**	0.43	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
D = The reported result is from a dilution.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Bhate Environmental Associates, Inc.**
Client Sample ID: **LH18/24-Air_051324_Stripper** ALS Project ID: P2402006
Client Project ID: **LHAAP GWTP / JUPCIBH.0001** ALS Sample ID: P2402006-001

Test Code: EPA TO-15 Date Collected: 5/13/24
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: 5/20/24
Analyst: Simon Cao Date Analyzed: 5/29/24
Sample Type: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes: 0.025 Liter(s)
Container ID: AC02458

Initial Pressure (psig): 0.02 Final Pressure (psig): 3.60

Canister Dilution Factor: 1.24

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	**3,700**	26	**930**	6.5	**D**
141-78-6	Ethyl Acetate	ND	2.5	ND	0.69	
110-54-3	n-Hexane	**0.73**	0.66	**0.21**	0.19	
67-66-3	Chloroform	**12**	0.67	**2.5**	0.14	
109-99-9	Tetrahydrofuran (THF)	ND	1.2	ND	0.42	
107-06-2	1,2-Dichloroethane	**57**	0.63	**14**	0.16	
71-55-6	1,1,1-Trichloroethane	**0.78**	0.64	**0.14**	0.12	
71-43-2	Benzene	**2.2**	0.63	**0.67**	0.20	
56-23-5	Carbon Tetrachloride	**3.7**	0.64	**0.58**	0.10	
110-82-7	Cyclohexane	**4.8**	1.4	**1.4**	0.40	
78-87-5	1,2-Dichloropropane	ND	0.67	ND	0.14	
75-27-4	Bromodichloromethane	ND	0.66	ND	0.098	
79-01-6	Trichloroethene	**3,700**	26	**680**	4.8	**D**
123-91-1	1,4-Dioxane	ND	0.64	ND	0.18	
80-62-6	Methyl Methacrylate	ND	1.3	ND	0.32	
142-82-5	n-Heptane	ND	0.66	ND	0.16	
10061-01-5	cis-1,3-Dichloropropene	ND	0.66	ND	0.14	
108-10-1	4-Methyl-2-pentanone	ND	1.3	ND	0.32	
10061-02-6	trans-1,3-Dichloropropene	ND	0.61	ND	0.13	
79-00-5	1,1,2-Trichloroethane	**1.8**	0.68	**0.33**	0.13	
108-88-3	Toluene	**1.5**	0.67	**0.39**	0.18	
591-78-6	2-Hexanone	**12**	1.3	**3.0**	0.31	
124-48-1	Dibromochloromethane	ND	0.63	ND	0.074	
106-93-4	1,2-Dibromoethane	ND	0.64	ND	0.084	
123-86-4	n-Butyl Acetate	ND	1.3	ND	0.27	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
D = The reported result is from a dilution.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Bhate Environmental Associates, Inc.**
Client Sample ID: **LH18/24-Air_051324_Stripper** ALS Project ID: P2402006
Client Project ID: **LHAAP GWTP / JUPCIBH.0001** ALS Sample ID: P2402006-001

Test Code: EPA TO-15 Date Collected: 5/13/24
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: 5/20/24
Analyst: Simon Cao Date Analyzed: 5/29/24
Sample Type: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes: 0.025 Liter(s)
Container ID: AC02458

Initial Pressure (psig): 0.02 Final Pressure (psig): 3.60

Canister Dilution Factor: 1.24

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.66	ND	0.14	
127-18-4	Tetrachloroethene	**59**	0.67	**8.7**	0.099	
108-90-7	Chlorobenzene	ND	0.67	ND	0.15	
100-41-4	Ethylbenzene	**0.83**	0.68	**0.19**	0.16	
179601-23-1	m,p-Xylenes	**2.5**	1.3	**0.57**	0.31	
75-25-2	Bromoform	ND	0.68	ND	0.066	
100-42-5	Styrene	ND	0.66	ND	0.15	
95-47-6	o-Xylene	**0.82**	0.67	**0.19**	0.15	
111-84-2	n-Nonane	ND	0.64	ND	0.12	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.67	ND	0.098	
98-82-8	Cumene	ND	0.64	ND	0.13	
80-56-8	alpha-Pinene	ND	1.3	ND	0.24	
103-65-1	n-Propylbenzene	ND	0.64	ND	0.13	
622-96-8	4-Ethyltoluene	ND	0.64	ND	0.13	
108-67-8	1,3,5-Trimethylbenzene	ND	0.67	ND	0.14	
95-63-6	1,2,4-Trimethylbenzene	ND	0.64	ND	0.13	
100-44-7	Benzyl Chloride	ND	2.6	ND	0.50	
541-73-1	1,3-Dichlorobenzene	ND	0.64	ND	0.11	
106-46-7	1,4-Dichlorobenzene	ND	0.64	ND	0.11	
95-50-1	1,2-Dichlorobenzene	ND	0.64	ND	0.11	
5989-27-5	d-Limonene	ND	1.2	ND	0.22	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.3	ND	0.13	
120-82-1	1,2,4-Trichlorobenzene	ND	1.3	ND	0.18	
91-20-3	Naphthalene	ND	0.63	ND	0.12	
87-68-3	Hexachlorobutadiene	ND	0.63	ND	0.059	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Bhate Environmental Associates, Inc.**
Client Sample ID: **LH18/24-Air_051324_Stripper_a** ALS Project ID: P2402006
Client Project ID: **LHAAP GWTP / JUPCIBH.0001** ALS Sample ID: P2402006-002

Test Code: EPA TO-15 Date Collected: 5/13/24
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: 5/20/24
Analyst: Simon Cao Date Analyzed: 5/29/24
Sample Type: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes: 0.025 Liter(s)
Container ID: AC01876

Initial Pressure (psig): 0.02 Final Pressure (psig): 3.67

Canister Dilution Factor: 1.25

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	**6.9**	0.66	**4.0**	0.39	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.5**	0.65	**0.50**	0.13	
74-87-3	Chloromethane	ND	0.68	ND	0.33	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.69	ND	0.098	
75-01-4	Vinyl Chloride	**120**	27	**46**	10	**D**
106-99-0	1,3-Butadiene	ND	0.66	ND	0.30	
74-83-9	Bromomethane	ND	0.64	ND	0.16	
75-00-3	Chloroethane	ND	0.69	ND	0.26	
64-17-5	Ethanol	**15**	6.2	**8.1**	3.3	
75-05-8	Acetonitrile	ND	1.2	ND	0.72	
107-02-8	Acrolein	ND	1.4	ND	0.59	
67-64-1	Acetone	**150**	6.4	**65**	2.7	
75-69-4	Trichlorofluoromethane (CFC 11)	**1.6**	0.64	**0.29**	0.11	
67-63-0	2-Propanol (Isopropyl Alcohol)	**3.8**	1.2	**1.5**	0.50	
107-13-1	Acrylonitrile	ND	1.3	ND	0.58	
75-35-4	1,1-Dichloroethene	**68**	0.56	**17**	0.14	
75-09-2	Methylene Chloride	**6.1**	0.58	**1.7**	0.17	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.68	ND	0.22	
76-13-1	Trichlorotrifluoroethane (CFC 113)	**3,500**	23	**460**	2.9	**D**
75-15-0	Carbon Disulfide	ND	1.3	ND	0.42	
156-60-5	trans-1,2-Dichloroethene	**14**	0.66	**3.5**	0.17	
75-34-3	1,1-Dichloroethane	**11**	0.65	**2.6**	0.16	
1634-04-4	Methyl tert-Butyl Ether	ND	0.68	ND	0.19	
108-05-4	Vinyl Acetate	ND	6.7	ND	1.9	
78-93-3	2-Butanone (MEK)	**25**	1.3	**8.5**	0.43	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
D = The reported result is from a dilution.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Bhate Environmental Associates, Inc.**
Client Sample ID: **LH18/24-Air_051324_Stripper_a** ALS Project ID: P2402006
Client Project ID: **LHAAP GWTP / JUPCIBH.0001** ALS Sample ID: P2402006-002

Test Code: EPA TO-15 Date Collected: 5/13/24
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: 5/20/24
Analyst: Simon Cao Date Analyzed: 5/29/24
Sample Type: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes: 0.025 Liter(s)
Container ID: AC01876

Initial Pressure (psig): 0.02 Final Pressure (psig): 3.67

Canister Dilution Factor: 1.25

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	**3,600**	26	**900**	6.6	**D**
141-78-6	Ethyl Acetate	ND	2.5	ND	0.69	
110-54-3	n-Hexane	**2.7**	0.66	**0.76**	0.19	
67-66-3	Chloroform	**12**	0.68	**2.5**	0.14	
109-99-9	Tetrahydrofuran (THF)	**3.6**	1.3	**1.2**	0.42	
107-06-2	1,2-Dichloroethane	**57**	0.64	**14**	0.16	
71-55-6	1,1,1-Trichloroethane	**0.78**	0.65	**0.14**	0.12	
71-43-2	Benzene	**1.9**	0.64	**0.60**	0.20	
56-23-5	Carbon Tetrachloride	**3.6**	0.65	**0.57**	0.10	
110-82-7	Cyclohexane	**4.9**	1.4	**1.4**	0.40	
78-87-5	1,2-Dichloropropane	ND	0.68	ND	0.15	
75-27-4	Bromodichloromethane	ND	0.66	ND	0.099	
79-01-6	Trichloroethene	**3,500**	26	**660**	4.8	**D**
123-91-1	1,4-Dioxane	ND	0.65	ND	0.18	
80-62-6	Methyl Methacrylate	ND	1.3	ND	0.32	
142-82-5	n-Heptane	ND	0.66	ND	0.16	
10061-01-5	cis-1,3-Dichloropropene	ND	0.66	ND	0.15	
108-10-1	4-Methyl-2-pentanone	ND	1.3	ND	0.32	
10061-02-6	trans-1,3-Dichloropropene	ND	0.61	ND	0.13	
79-00-5	1,1,2-Trichloroethane	**1.8**	0.69	**0.34**	0.13	
108-88-3	Toluene	**2.6**	0.68	**0.70**	0.18	
591-78-6	2-Hexanone	**9.8**	1.3	**2.4**	0.31	
124-48-1	Dibromochloromethane	ND	0.64	ND	0.075	
106-93-4	1,2-Dibromoethane	ND	0.65	ND	0.085	
123-86-4	n-Butyl Acetate	ND	1.3	ND	0.27	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
D = The reported result is from a dilution.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Bhate Environmental Associates, Inc.**
Client Sample ID: **LH18/24-Air_051324_Stripper_a** ALS Project ID: P2402006
Client Project ID: **LHAAP GWTP / JUPCIBH.0001** ALS Sample ID: P2402006-002

Test Code: EPA TO-15 Date Collected: 5/13/24
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: 5/20/24
Analyst: Simon Cao Date Analyzed: 5/29/24
Sample Type: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes: 0.025 Liter(s)
Container ID: AC01876

Initial Pressure (psig): 0.02 Final Pressure (psig): 3.67

Canister Dilution Factor: 1.25

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.66	ND	0.14	
127-18-4	Tetrachloroethene	**59**	0.68	**8.7**	0.10	
108-90-7	Chlorobenzene	ND	0.68	ND	0.15	
100-41-4	Ethylbenzene	ND	0.69	ND	0.16	
179601-23-1	m,p-Xylenes	ND	1.3	ND	0.31	
75-25-2	Bromoform	ND	0.69	ND	0.067	
100-42-5	Styrene	ND	0.66	ND	0.16	
95-47-6	o-Xylene	**0.69**	0.68	**0.16**	0.16	
111-84-2	n-Nonane	ND	0.65	ND	0.12	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.68	ND	0.098	
98-82-8	Cumene	ND	0.65	ND	0.13	
80-56-8	alpha-Pinene	ND	1.3	ND	0.24	
103-65-1	n-Propylbenzene	ND	0.65	ND	0.13	
622-96-8	4-Ethyltoluene	ND	0.65	ND	0.13	
108-67-8	1,3,5-Trimethylbenzene	ND	0.68	ND	0.14	
95-63-6	1,2,4-Trimethylbenzene	ND	0.65	ND	0.13	
100-44-7	Benzyl Chloride	ND	2.6	ND	0.50	
541-73-1	1,3-Dichlorobenzene	ND	0.65	ND	0.11	
106-46-7	1,4-Dichlorobenzene	ND	0.65	ND	0.11	
95-50-1	1,2-Dichlorobenzene	ND	0.65	ND	0.11	
5989-27-5	d-Limonene	ND	1.3	ND	0.22	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.3	ND	0.13	
120-82-1	1,2,4-Trichlorobenzene	ND	1.3	ND	0.18	
91-20-3	Naphthalene	ND	0.64	ND	0.12	
87-68-3	Hexachlorobutadiene	ND	0.64	ND	0.060	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Bhate Environmental Associates, Inc.**
Client Sample ID: **LH18/24-Air_051324_GWTP** ALS Project ID: P2402006
Client Project ID: **LHAAP GWTP / JUPCIBH.0001** ALS Sample ID: P2402006-003

Test Code: EPA TO-15 Date Collected: 5/13/24
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: 5/20/24
Analyst: Simon Cao Date Analyzed: 5/29/24
Sample Type: 6.0 L Silonite Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AS00091

Initial Pressure (psig): -1.28 Final Pressure (psig): 3.65

Canister Dilution Factor: 1.37

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	**2.5**	0.73	**1.5**	0.42	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.6**	0.71	**0.52**	0.14	
74-87-3	Chloromethane	ND	0.74	ND	0.36	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.75	ND	0.11	
75-01-4	Vinyl Chloride	ND	0.73	ND	0.28	
106-99-0	1,3-Butadiene	ND	0.73	ND	0.33	
74-83-9	Bromomethane	ND	0.70	ND	0.18	
75-00-3	Chloroethane	ND	0.75	ND	0.29	
64-17-5	Ethanol	**14**	6.8	**7.3**	3.6	
75-05-8	Acetonitrile	ND	1.3	ND	0.78	
107-02-8	Acrolein	ND	1.5	ND	0.65	
67-64-1	Acetone	**19**	7.0	**8.0**	2.9	
75-69-4	Trichlorofluoromethane (CFC 11)	**1.4**	0.70	**0.26**	0.12	
67-63-0	2-Propanol (Isopropyl Alcohol)	**13**	1.4	**5.1**	0.55	
107-13-1	Acrylonitrile	ND	1.4	ND	0.63	
75-35-4	1,1-Dichloroethene	ND	0.62	ND	0.16	
75-09-2	Methylene Chloride	ND	0.63	ND	0.18	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.74	ND	0.24	
76-13-1	Trichlorotrifluoroethane (CFC 113)	**5.1**	0.62	**0.67**	0.080	
75-15-0	Carbon Disulfide	**11**	1.4	**3.5**	0.46	
156-60-5	trans-1,2-Dichloroethene	ND	0.73	ND	0.18	
75-34-3	1,1-Dichloroethane	ND	0.71	ND	0.18	
1634-04-4	Methyl tert-Butyl Ether	ND	0.74	ND	0.21	
108-05-4	Vinyl Acetate	ND	7.4	ND	2.1	
78-93-3	2-Butanone (MEK)	**2.5**	1.4	**0.84**	0.47	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Bhate Environmental Associates, Inc.**
Client Sample ID: **LH18/24-Air_051324_GWTP** ALS Project ID: P2402006
Client Project ID: **LHAAP GWTP / JUPCIBH.0001** ALS Sample ID: P2402006-003

Test Code: EPA TO-15 Date Collected: 5/13/24
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: 5/20/24
Analyst: Simon Cao Date Analyzed: 5/29/24
Sample Type: 6.0 L Silonite Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AS00091

Initial Pressure (psig): -1.28 Final Pressure (psig): 3.65

Canister Dilution Factor: 1.37

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	**6.1**	0.71	**1.5**	0.18	
141-78-6	Ethyl Acetate	**93**	2.7	**26**	0.76	
110-54-3	n-Hexane	**3.1**	0.73	**0.88**	0.21	
67-66-3	Chloroform	ND	0.74	ND	0.15	
109-99-9	Tetrahydrofuran (THF)	**2.6**	1.4	**0.89**	0.46	
107-06-2	1,2-Dichloroethane	ND	0.70	ND	0.17	
71-55-6	1,1,1-Trichloroethane	ND	0.71	ND	0.13	
71-43-2	Benzene	**0.91**	0.70	**0.29**	0.22	
56-23-5	Carbon Tetrachloride	ND	0.71	ND	0.11	
110-82-7	Cyclohexane	**2.6**	1.5	**0.74**	0.44	
78-87-5	1,2-Dichloropropane	ND	0.74	ND	0.16	
75-27-4	Bromodichloromethane	ND	0.73	ND	0.11	
79-01-6	Trichloroethene	**6.4**	0.71	**1.2**	0.13	
123-91-1	1,4-Dioxane	ND	0.71	ND	0.20	
80-62-6	Methyl Methacrylate	ND	1.5	ND	0.35	
142-82-5	n-Heptane	ND	0.73	ND	0.18	
10061-01-5	cis-1,3-Dichloropropene	ND	0.73	ND	0.16	
108-10-1	4-Methyl-2-pentanone	ND	1.4	ND	0.35	
10061-02-6	trans-1,3-Dichloropropene	ND	0.67	ND	0.15	
79-00-5	1,1,2-Trichloroethane	ND	0.75	ND	0.14	
108-88-3	Toluene	**3.8**	0.74	**1.0**	0.20	
591-78-6	2-Hexanone	ND	1.4	ND	0.34	
124-48-1	Dibromochloromethane	ND	0.70	ND	0.082	
106-93-4	1,2-Dibromoethane	ND	0.71	ND	0.093	
123-86-4	n-Butyl Acetate	ND	1.4	ND	0.30	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Bhate Environmental Associates, Inc.**
Client Sample ID: **LH18/24-Air_051324_GWTP** ALS Project ID: P2402006
Client Project ID: **LHAAP GWTP / JUPCIBH.0001** ALS Sample ID: P2402006-003

Test Code: EPA TO-15 Date Collected: 5/13/24
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: 5/20/24
Analyst: Simon Cao Date Analyzed: 5/29/24
Sample Type: 6.0 L Silonite Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AS00091

Initial Pressure (psig): -1.28 Final Pressure (psig): 3.65

Canister Dilution Factor: 1.37

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.73	ND	0.16	
127-18-4	Tetrachloroethene	ND	0.74	ND	0.11	
108-90-7	Chlorobenzene	ND	0.74	ND	0.16	
100-41-4	Ethylbenzene	ND	0.75	ND	0.17	
179601-23-1	m,p-Xylenes	ND	1.5	ND	0.34	
75-25-2	Bromoform	ND	0.75	ND	0.073	
100-42-5	Styrene	ND	0.73	ND	0.17	
95-47-6	o-Xylene	ND	0.74	ND	0.17	
111-84-2	n-Nonane	ND	0.71	ND	0.14	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.74	ND	0.11	
98-82-8	Cumene	ND	0.71	ND	0.14	
80-56-8	alpha-Pinene	ND	1.5	ND	0.26	
103-65-1	n-Propylbenzene	ND	0.71	ND	0.14	
622-96-8	4-Ethyltoluene	ND	0.71	ND	0.14	
108-67-8	1,3,5-Trimethylbenzene	ND	0.74	ND	0.15	
95-63-6	1,2,4-Trimethylbenzene	ND	0.71	ND	0.14	
100-44-7	Benzyl Chloride	ND	2.8	ND	0.55	
541-73-1	1,3-Dichlorobenzene	ND	0.71	ND	0.12	
106-46-7	1,4-Dichlorobenzene	ND	0.71	ND	0.12	
95-50-1	1,2-Dichlorobenzene	ND	0.71	ND	0.12	
5989-27-5	d-Limonene	ND	1.4	ND	0.25	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.4	ND	0.15	
120-82-1	1,2,4-Trichlorobenzene	ND	1.5	ND	0.20	
91-20-3	Naphthalene	ND	0.70	ND	0.13	
87-68-3	Hexachlorobutadiene	ND	0.70	ND	0.066	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Bhate Environmental Associates, Inc.**
Client Sample ID: **LH18/24-Air_051324_Downwind** ALS Project ID: P2402006
Client Project ID: **LHAAP GWTP / JUPCIBH.0001** ALS Sample ID: P2402006-004

Test Code: EPA TO-15 Date Collected: 5/13/24
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: 5/20/24
Analyst: Simon Cao Date Analyzed: 5/29/24
Sample Type: 6.0 L Silonite Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AS01435

Initial Pressure (psig): -0.73 Final Pressure (psig): 3.78

Canister Dilution Factor: 1.32

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	**2.2**	0.70	**1.3**	0.41	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.9**	0.69	**0.58**	0.14	
74-87-3	Chloromethane	ND	0.71	ND	0.35	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.73	ND	0.10	
75-01-4	Vinyl Chloride	ND	0.70	ND	0.27	
106-99-0	1,3-Butadiene	ND	0.70	ND	0.32	
74-83-9	Bromomethane	ND	0.67	ND	0.17	
75-00-3	Chloroethane	ND	0.73	ND	0.28	
64-17-5	Ethanol	**12**	6.5	**6.2**	3.5	
75-05-8	Acetonitrile	ND	1.3	ND	0.76	
107-02-8	Acrolein	ND	1.4	ND	0.62	
67-64-1	Acetone	**22**	6.7	**9.1**	2.8	
75-69-4	Trichlorofluoromethane (CFC 11)	**1.9**	0.67	**0.34**	0.12	
67-63-0	2-Propanol (Isopropyl Alcohol)	**6.4**	1.3	**2.6**	0.53	
107-13-1	Acrylonitrile	ND	1.3	ND	0.61	
75-35-4	1,1-Dichloroethene	ND	0.59	ND	0.15	
75-09-2	Methylene Chloride	ND	0.61	ND	0.17	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.71	ND	0.23	
76-13-1	Trichlorotrifluoroethane (CFC 113)	**0.93**	0.59	**0.12**	0.078	
75-15-0	Carbon Disulfide	**7.4**	1.4	**2.4**	0.44	
156-60-5	trans-1,2-Dichloroethene	ND	0.70	ND	0.18	
75-34-3	1,1-Dichloroethane	ND	0.69	ND	0.17	
1634-04-4	Methyl tert-Butyl Ether	ND	0.71	ND	0.20	
108-05-4	Vinyl Acetate	ND	7.1	ND	2.0	
78-93-3	2-Butanone (MEK)	**7.8**	1.3	**2.6**	0.46	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Bhate Environmental Associates, Inc.**
Client Sample ID: **LH18/24-Air_051324_Downwind** ALS Project ID: P2402006
Client Project ID: **LHAAP GWTP / JUPCIBH.0001** ALS Sample ID: P2402006-004

Test Code: EPA TO-15 Date Collected: 5/13/24
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: 5/20/24
Analyst: Simon Cao Date Analyzed: 5/29/24
Sample Type: 6.0 L Silonite Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AS01435

Initial Pressure (psig): -0.73 Final Pressure (psig): 3.78

Canister Dilution Factor: 1.32

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.69	ND	0.17	
141-78-6	Ethyl Acetate	**4.5**	2.6	**1.2**	0.73	
110-54-3	n-Hexane	**6.6**	0.70	**1.9**	0.20	
67-66-3	Chloroform	ND	0.71	ND	0.15	
109-99-9	Tetrahydrofuran (THF)	**7.9**	1.3	**2.7**	0.45	
107-06-2	1,2-Dichloroethane	ND	0.67	ND	0.17	
71-55-6	1,1,1-Trichloroethane	ND	0.69	ND	0.13	
71-43-2	Benzene	**0.99**	0.67	**0.31**	0.21	
56-23-5	Carbon Tetrachloride	ND	0.69	ND	0.11	
110-82-7	Cyclohexane	ND	1.5	ND	0.42	
78-87-5	1,2-Dichloropropane	ND	0.71	ND	0.15	
75-27-4	Bromodichloromethane	ND	0.70	ND	0.10	
79-01-6	Trichloroethene	ND	0.69	ND	0.13	
123-91-1	1,4-Dioxane	ND	0.69	ND	0.19	
80-62-6	Methyl Methacrylate	ND	1.4	ND	0.34	
142-82-5	n-Heptane	**1.0**	0.70	**0.25**	0.17	
10061-01-5	cis-1,3-Dichloropropene	ND	0.70	ND	0.15	
108-10-1	4-Methyl-2-pentanone	ND	1.4	ND	0.34	
10061-02-6	trans-1,3-Dichloropropene	ND	0.65	ND	0.14	
79-00-5	1,1,2-Trichloroethane	ND	0.73	ND	0.13	
108-88-3	Toluene	**5.0**	0.71	**1.3**	0.19	
591-78-6	2-Hexanone	ND	1.3	ND	0.33	
124-48-1	Dibromochloromethane	ND	0.67	ND	0.079	
106-93-4	1,2-Dibromoethane	ND	0.69	ND	0.089	
123-86-4	n-Butyl Acetate	ND	1.4	ND	0.29	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Bhate Environmental Associates, Inc.**
Client Sample ID: **LH18/24-Air_051324_Downwind** ALS Project ID: P2402006
Client Project ID: **LHAAP GWTP / JUPCIBH.0001** ALS Sample ID: P2402006-004

Test Code: EPA TO-15 Date Collected: 5/13/24
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: 5/20/24
Analyst: Simon Cao Date Analyzed: 5/29/24
Sample Type: 6.0 L Silonite Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AS01435

Initial Pressure (psig): -0.73 Final Pressure (psig): 3.78

Canister Dilution Factor: 1.32

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.70	ND	0.15	
127-18-4	Tetrachloroethene	ND	0.71	ND	0.11	
108-90-7	Chlorobenzene	ND	0.71	ND	0.15	
100-41-4	Ethylbenzene	ND	0.73	ND	0.17	
179601-23-1	m,p-Xylenes	**2.2**	1.4	**0.51**	0.33	
75-25-2	Bromoform	ND	0.73	ND	0.070	
100-42-5	Styrene	ND	0.70	ND	0.16	
95-47-6	o-Xylene	**0.81**	0.71	**0.19**	0.16	
111-84-2	n-Nonane	ND	0.69	ND	0.13	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.71	ND	0.10	
98-82-8	Cumene	ND	0.69	ND	0.14	
80-56-8	alpha-Pinene	**2.9**	1.4	**0.52**	0.25	
103-65-1	n-Propylbenzene	ND	0.69	ND	0.14	
622-96-8	4-Ethyltoluene	ND	0.69	ND	0.14	
108-67-8	1,3,5-Trimethylbenzene	ND	0.71	ND	0.15	
95-63-6	1,2,4-Trimethylbenzene	ND	0.69	ND	0.14	
100-44-7	Benzyl Chloride	ND	2.7	ND	0.53	
541-73-1	1,3-Dichlorobenzene	ND	0.69	ND	0.11	
106-46-7	1,4-Dichlorobenzene	ND	0.69	ND	0.11	
95-50-1	1,2-Dichlorobenzene	ND	0.69	ND	0.11	
5989-27-5	d-Limonene	**1.5**	1.3	**0.26**	0.24	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.4	ND	0.14	
120-82-1	1,2,4-Trichlorobenzene	ND	1.4	ND	0.19	
91-20-3	Naphthalene	ND	0.67	ND	0.13	
87-68-3	Hexachlorobutadiene	ND	0.67	ND	0.063	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Bhate Environmental Associates, Inc.**
Client Sample ID: **Method Blank** ALS Project ID: P2402006
Client Project ID: **LHAAP GWTP / JUPCIBH.0001** ALS Sample ID: P240529-MB

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: NA
Analyst: Simon Cao Date Analyzed: 5/29/24
Sample Type: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	ND	0.53	ND	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.52	ND	0.11	
74-87-3	Chloromethane	ND	0.54	ND	0.26	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.55	ND	0.079	
75-01-4	Vinyl Chloride	ND	0.53	ND	0.21	
106-99-0	1,3-Butadiene	ND	0.53	ND	0.24	
74-83-9	Bromomethane	ND	0.51	ND	0.13	
75-00-3	Chloroethane	ND	0.55	ND	0.21	
64-17-5	Ethanol	ND	4.9	ND	2.6	
75-05-8	Acetonitrile	ND	0.96	ND	0.57	
107-02-8	Acrolein	ND	1.1	ND	0.47	
67-64-1	Acetone	ND	5.1	ND	2.2	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	0.51	ND	0.091	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	0.99	ND	0.40	
107-13-1	Acrylonitrile	ND	1.0	ND	0.46	
75-35-4	1,1-Dichloroethene	ND	0.45	ND	0.11	
75-09-2	Methylene Chloride	ND	0.46	ND	0.13	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.54	ND	0.17	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.45	ND	0.059	
75-15-0	Carbon Disulfide	ND	1.0	ND	0.33	
156-60-5	trans-1,2-Dichloroethene	ND	0.53	ND	0.13	
75-34-3	1,1-Dichloroethane	ND	0.52	ND	0.13	
1634-04-4	Methyl tert-Butyl Ether	ND	0.54	ND	0.15	
108-05-4	Vinyl Acetate	ND	5.4	ND	1.5	
78-93-3	2-Butanone (MEK)	ND	1.0	ND	0.35	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Bhate Environmental Associates, Inc.**
Client Sample ID: **Method Blank** ALS Project ID: P2402006
Client Project ID: **LHAAP GWTP / JUPCIBH.0001** ALS Sample ID: P240529-MB

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: NA
Analyst: Simon Cao Date Analyzed: 5/29/24
Sample Type: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.52	ND	0.13	
141-78-6	Ethyl Acetate	ND	2.0	ND	0.56	
110-54-3	n-Hexane	ND	0.53	ND	0.15	
67-66-3	Chloroform	ND	0.54	ND	0.11	
109-99-9	Tetrahydrofuran (THF)	ND	1.0	ND	0.34	
107-06-2	1,2-Dichloroethane	ND	0.51	ND	0.13	
71-55-6	1,1,1-Trichloroethane	ND	0.52	ND	0.095	
71-43-2	Benzene	ND	0.51	ND	0.16	
56-23-5	Carbon Tetrachloride	ND	0.52	ND	0.083	
110-82-7	Cyclohexane	ND	1.1	ND	0.32	
78-87-5	1,2-Dichloropropane	ND	0.54	ND	0.12	
75-27-4	Bromodichloromethane	ND	0.53	ND	0.079	
79-01-6	Trichloroethene	ND	0.52	ND	0.097	
123-91-1	1,4-Dioxane	ND	0.52	ND	0.14	
80-62-6	Methyl Methacrylate	ND	1.1	ND	0.26	
142-82-5	n-Heptane	ND	0.53	ND	0.13	
10061-01-5	cis-1,3-Dichloropropene	ND	0.53	ND	0.12	
108-10-1	4-Methyl-2-pentanone	ND	1.1	ND	0.26	
10061-02-6	trans-1,3-Dichloropropene	ND	0.49	ND	0.11	
79-00-5	1,1,2-Trichloroethane	ND	0.55	ND	0.10	
108-88-3	Toluene	ND	0.54	ND	0.14	
591-78-6	2-Hexanone	ND	1.0	ND	0.25	
124-48-1	Dibromochloromethane	ND	0.51	ND	0.060	
106-93-4	1,2-Dibromoethane	ND	0.52	ND	0.068	
123-86-4	n-Butyl Acetate	ND	1.0	ND	0.22	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Bhate Environmental Associates, Inc.**
Client Sample ID: **Method Blank** ALS Project ID: P2402006
Client Project ID: **LHAAP GWTP / JUPCIBH.0001** ALS Sample ID: P240529-MB

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: NA
Analyst: Simon Cao Date Analyzed: 5/29/24
Sample Type: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.53	ND	0.11	
127-18-4	Tetrachloroethene	ND	0.54	ND	0.080	
108-90-7	Chlorobenzene	ND	0.54	ND	0.12	
100-41-4	Ethylbenzene	ND	0.55	ND	0.13	
179601-23-1	m,p-Xylenes	ND	1.1	ND	0.25	
75-25-2	Bromoform	ND	0.55	ND	0.053	
100-42-5	Styrene	ND	0.53	ND	0.12	
95-47-6	o-Xylene	ND	0.54	ND	0.12	
111-84-2	n-Nonane	ND	0.52	ND	0.099	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.54	ND	0.079	
98-82-8	Cumene	ND	0.52	ND	0.11	
80-56-8	alpha-Pinene	ND	1.1	ND	0.19	
103-65-1	n-Propylbenzene	ND	0.52	ND	0.11	
622-96-8	4-Ethyltoluene	ND	0.52	ND	0.11	
108-67-8	1,3,5-Trimethylbenzene	ND	0.54	ND	0.11	
95-63-6	1,2,4-Trimethylbenzene	ND	0.52	ND	0.11	
100-44-7	Benzyl Chloride	ND	2.1	ND	0.40	
541-73-1	1,3-Dichlorobenzene	ND	0.52	ND	0.087	
106-46-7	1,4-Dichlorobenzene	ND	0.52	ND	0.087	
95-50-1	1,2-Dichlorobenzene	ND	0.52	ND	0.087	
5989-27-5	d-Limonene	ND	1.0	ND	0.18	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ND	0.11	
120-82-1	1,2,4-Trichlorobenzene	ND	1.1	ND	0.14	
91-20-3	Naphthalene	ND	0.51	ND	0.097	
87-68-3	Hexachlorobutadiene	ND	0.51	ND	0.048	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

SURROGATE SPIKE RECOVERY RESULTS

Client: **Bhate Environmental Associates, Inc.**
Client Project ID: **LHAAP GWTP / JUPCIBH.0001** ALS Project ID: P2402006

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date(s) Collected: 5/13/24
Analyst: Simon Cao Date(s) Received: 5/20/24
Sample Type: 6.0 L Summa Canister(s) / 6.0 L Silonite Canister(s) Date(s) Analyzed: 5/29/24
Test Notes:

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4 Percent Recovered	Toluene-d8 Percent Recovered	Bromofluorobenzene Percent Recovered	Acceptance Limits	Data Qualifier
Method Blank	P240529-MB	**110**	**104**	**106**	70-130	
Lab Control Sample	P240529-LCS	**109**	**102**	**108**	70-130	
Duplicate Lab Control Sample	P240529-DLCS	**109**	**102**	**106**	70-130	
LH18/24-Air_051324_Stripper	P2402006-001	**109**	**103**	**107**	70-130	
LH18/24-Air_051324_Stripper_a	P2402006-002	**108**	**104**	**105**	70-130	
LH18/24-Air_051324_GWTP	P2402006-003	**108**	**104**	**105**	70-130	
LH18/24-Air_051324_Downwind	P2402006-004	**109**	**105**	**106**	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Client: **Bhate Environmental Associates, Inc.**
Client Sample ID: **Duplicate Lab Control Sample** ALS Project ID: P2402006
Client Project ID: **LHAAP GWTP / JUPCIBH.0001** ALS Sample ID: P240529-DLCS

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: NA
Analyst: Simon Cao Date Analyzed: 5/29/24
Sample Type: 6.0 L Summa Canister Volume(s) Analyzed: 0.125 Liter(s)
Test Notes:

CAS #	Compound	Spike Amount LCS / DLCS µg/m³	Result LCS µg/m³	Result DLCS µg/m³	% Recovery LCS	% Recovery DLCS	ALS Acceptance Limits	RPD	RPD Limit	Data Qualifier
115-07-1	Propene	212	154	160	**73**	**75**	50-133	3	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	204	198	199	**97**	**98**	66-122	1	25	
74-87-3	Chloromethane	208	162	168	**78**	**81**	56-131	4	25	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	208	209	207	**100**	**100**	63-120	0	25	
75-01-4	Vinyl Chloride	212	188	190	**89**	**90**	57-129	1	25	
106-99-0	1,3-Butadiene	212	206	210	**97**	**99**	62-132	2	25	
74-83-9	Bromomethane	210	197	200	**94**	**95**	72-120	1	25	
75-00-3	Chloroethane	212	189	193	**89**	**91**	67-123	2	25	
64-17-5	Ethanol	1,110	750	775	**68**	**70**	52-120	3	25	
75-05-8	Acetonitrile	214	143	150	**67**	**70**	50-114	4	25	
107-02-8	Acrolein	426	342	354	**80**	**83**	63-125	4	25	
67-64-1	Acetone	1,060	832	854	**78**	**81**	61-120	4	25	
75-69-4	Trichlorofluoromethane (CFC 11)	210	204	202	**97**	**96**	65-122	1	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	418	330	339	**79**	**81**	59-132	3	25	
107-13-1	Acrylonitrile	424	324	334	**76**	**79**	60-128	4	25	
75-35-4	1,1-Dichloroethene	208	201	203	**97**	**98**	75-120	1	25	
75-09-2	Methylene Chloride	208	166	168	**80**	**81**	71-123	1	25	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	214	171	175	**80**	**82**	50-118	2	25	
76-13-1	Trichlorotrifluoroethane (CFC 113)	210	211	210	**100**	**100**	65-121	0	25	
75-15-0	Carbon Disulfide	430	406	411	**94**	**96**	69-115	2	25	
156-60-5	trans-1,2-Dichloroethene	218	198	203	**91**	**93**	67-123	2	25	
75-34-3	1,1-Dichloroethane	216	197	201	**91**	**93**	66-120	2	25	
1634-04-4	Methyl tert-Butyl Ether	216	233	235	**108**	**109**	65-124	0.9	25	
108-05-4	Vinyl Acetate	1,090	1090	1110	**100**	**102**	76-147	2	25	
78-93-3	2-Butanone (MEK)	414	394	402	**95**	**97**	70-125	2	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Client: **Bhate Environmental Associates, Inc.**
Client Sample ID: **Duplicate Lab Control Sample** ALS Project ID: P2402006
Client Project ID: **LHAAP GWTP / JUPCIBH.0001** ALS Sample ID: P240529-DLCS

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: NA
Analyst: Simon Cao Date Analyzed: 5/29/24
Sample Type: 6.0 L Summa Canister Volume(s) Analyzed: 0.125 Liter(s)
Test Notes:

CAS #	Compound	Spike Amount LCS / DLCS µg/m³	Result LCS µg/m³	Result DLCS µg/m³	% Recovery LCS	% Recovery DLCS	ALS Acceptance Limits	RPD	RPD Limit	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	216	196	198	**91**	**92**	64-120	1	25	
141-78-6	Ethyl Acetate	398	370	380	**93**	**95**	56-120	2	25	
110-54-3	n-Hexane	212	182	185	**86**	**87**	60-125	1	25	
67-66-3	Chloroform	216	211	213	**98**	**99**	64-121	1	25	
109-99-9	Tetrahydrofuran (THF)	404	389	397	**96**	**98**	67-117	2	25	
107-06-2	1,2-Dichloroethane	206	205	207	**100**	**100**	64-138	0	25	
71-55-6	1,1,1-Trichloroethane	210	206	203	**98**	**97**	67-125	1	25	
71-43-2	Benzene	206	185	187	**90**	**91**	73-128	1	25	
56-23-5	Carbon Tetrachloride	210	211	209	**100**	**100**	71-134	0	25	
110-82-7	Cyclohexane	428	411	416	**96**	**97**	71-118	1	25	
78-87-5	1,2-Dichloropropane	214	187	190	**87**	**89**	68-121	2	25	
75-27-4	Bromodichloromethane	218	217	217	**100**	**100**	70-125	0	25	
79-01-6	Trichloroethene	214	192	190	**90**	**89**	68-124	1	25	
123-91-1	1,4-Dioxane	214	207	208	**97**	**97**	76-127	0	25	
80-62-6	Methyl Methacrylate	428	440	441	**103**	**103**	77-118	0	25	
142-82-5	n-Heptane	214	209	211	**98**	**99**	72-121	1	25	
10061-01-5	cis-1,3-Dichloropropene	212	213	213	**100**	**100**	87-137	0	25	
108-10-1	4-Methyl-2-pentanone	426	396	402	**93**	**94**	67-137	1	25	
10061-02-6	trans-1,3-Dichloropropene	196	210	211	**107**	**108**	73-127	0.9	25	
79-00-5	1,1,2-Trichloroethane	216	205	205	**95**	**95**	71-119	0	25	
108-88-3	Toluene	214	202	202	**94**	**94**	64-121	0	25	
591-78-6	2-Hexanone	426	390	397	**92**	**93**	70-136	1	25	
124-48-1	Dibromochloromethane	214	210	207	**98**	**97**	67-128	1	25	
106-93-4	1,2-Dibromoethane	206	207	206	**100**	**100**	69-129	0	25	
123-86-4	n-Butyl Acetate	426	390	398	**92**	**93**	70-135	1	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Client: **Bhate Environmental Associates, Inc.**
Client Sample ID: **Duplicate Lab Control Sample** ALS Project ID: P2402006
Client Project ID: **LHAAP GWTP / JUPCIBH.0001** ALS Sample ID: P240529-DLCS

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: NA
Analyst: Simon Cao Date Analyzed: 5/29/24
Sample Type: 6.0 L Summa Canister Volume(s) Analyzed: 0.125 Liter(s)
Test Notes:

CAS #	Compound	Spike Amount LCS / DLCS µg/m³	Result LCS µg/m³	Result DLCS µg/m³	% Recovery LCS	% Recovery DLCS	ALS Acceptance Limits	RPD	RPD Limit	Data Qualifier
111-65-9	n-Octane	214	195	196	**91**	**92**	66-124	1	25	
127-18-4	Tetrachloroethene	214	209	207	**98**	**97**	55-132	1	25	
108-90-7	Chlorobenzene	218	199	199	**91**	**91**	63-124	0	25	
100-41-4	Ethylbenzene	218	211	210	**97**	**96**	64-119	1	25	
179601-23-1	m,p-Xylenes	432	424	422	**98**	**98**	64-121	0	25	
75-25-2	Bromoform	218	240	235	**110**	**108**	63-132	2	25	
100-42-5	Styrene	214	216	215	**101**	**100**	71-125	1	25	
95-47-6	o-Xylene	216	212	211	**98**	**98**	66-122	0	25	
111-84-2	n-Nonane	214	183	185	**86**	**86**	65-129	0	25	
79-34-5	1,1,2,2-Tetrachloroethane	216	212	214	**98**	**99**	71-128	1	25	
98-82-8	Cumene	212	207	206	**98**	**97**	66-126	1	25	
80-56-8	alpha-Pinene	216	220	219	**102**	**101**	65-129	1	25	
103-65-1	n-Propylbenzene	214	213	210	**100**	**98**	67-126	2	25	
622-96-8	4-Ethyltoluene	218	214	212	**98**	**97**	67-128	1	25	
108-67-8	1,3,5-Trimethylbenzene	218	218	217	**100**	**100**	66-125	0	25	
95-63-6	1,2,4-Trimethylbenzene	212	214	212	**101**	**100**	67-130	1	25	
100-44-7	Benzyl Chloride	430	488	487	**113**	**113**	58-151	0	25	
541-73-1	1,3-Dichlorobenzene	214	212	209	**99**	**98**	57-135	1	25	
106-46-7	1,4-Dichlorobenzene	214	214	212	**100**	**99**	56-129	1	25	
95-50-1	1,2-Dichlorobenzene	212	213	209	**100**	**99**	57-138	1	25	
5989-27-5	d-Limonene	208	228	228	**110**	**110**	70-129	0	25	
96-12-8	1,2-Dibromo-3-chloropropane	426	477	474	**112**	**111**	63-138	0.9	25	
120-82-1	1,2,4-Trichlorobenzene	440	502	498	**114**	**113**	50-137	0.9	25	
91-20-3	Naphthalene	220	227	228	**103**	**104**	50-157	1	25	
87-68-3	Hexachlorobutadiene	214	215	212	**100**	**99**	50-133	1	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Bhate Environmental Associates, Inc.** ALS Project ID: P2402006
Client Project ID: **LHAAP GWTP / JUPCIBH.0001**

Internal Standard Area and RT Summary

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Lab File ID: 05292402.D
Analyst: Simon Cao Date Analyzed: 5/29/24
Sample Type: 6.0 L Summa Canister(s) Time Analyzed: 09:20
Test Notes:

		IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	24 Hour Standard	174563	7.28	764140	9.33	174675	14.85
	Upper Limit	244388	7.61	1069796	9.66	244545	15.18
	Lower Limit	104738	6.95	458484	9.00	104805	14.52
	Client Sample ID						
01	Method Blank	164148	7.23	729380	9.30	164385	14.84
02	Lab Control Sample	173466	7.28	751928	9.33	173293	14.85
03	Duplicate Lab Control Sample	180099	7.27	788321	9.33	181616	14.85
04	LH18/24-Air_051324_Stripper	185326	7.30	811266	9.36	187271	14.85
05	LH18/24-Air_051324_Stripper_a	184256	7.30	812670	9.35	187980	14.85
06	LH18/24-Air_051324_GWTP	189799	7.24	837781	9.31	192600	14.84
07	LH18/24-Air_051324_Downwind	184015	7.23	825669	9.30	187430	14.84
08	LH18/24-Air_051324_Stripper (Dilution)	188986	7.23	824103	9.30	187901	14.84
09	LH18/24-Air_051324_Stripper_a (Dilution)	182575	7.23	797128	9.30	179590	14.84
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = 140% of internal standard area
AREA LOWER LIMIT = 60% of internal standard area
RT UPPER LIMIT = 0.33 minutes of internal standard RT
RT LOWER LIMIT = 0.33 minutes of internal standard RT

# Column used to flag values outside QC limits with an I.
I = Internal standard not within the specified limits.

APPENDIX I
PROTOCOL FOR DISCHARGING GWTP EFFLUENT

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MEMORANDUM

DATE: August 28, 2017

PROJECT NAME: Remediation of Multiple Sites, Longhorn Army Ammunition Plant, Karnack, TX

TO:	Richard Mayer	Senior Project Engineer US Environmental Protection Agency Federal Facilities Section (6PD-F)
	April Palmie	Project and Grant Manager Superfund Section, Remediation Division Texas Commission on Environmental Quality
FROM:	Rose M. Zeiler, Ph.D.	Longhorn AAP Site Manager

SUBJECT: **Protocol for Discharging GWTP Effluent**
Longhorn Army Ammunition Plant, Karnack, TX
(Contract: W912DY-09-D-0059, Task Order DS01)

INTRODUCTION

The purpose of this memo is to document the protocol for discharging Longhorn Army Ammunition Plant groundwater treatment plant (GWTP) effluent to Harrison Bayou, the INF-Pond, or LHAAP-18/24.

The GWTP is designed to:

- Extract groundwater from LHAAP-18/24 and LHAAP-16 for hydraulic control;
- Remove metals by pH adjustment, polymer addition, and gravity separation;
- Remove volatile organic compounds (VOCs) by air stripping;
- Remove perchlorate in a fluidized bed reactor (FBR) and an ion exchange scavenger system; and
- Discharge the effluent continuously.

DISCHARGE CRITERIA

The discharge criteria established for discharge to Harrison Bayou are:

Parameter	Discharge Criteria (µg/L)	
	Daily Average	Daily Maximum
Volatiles		
1,1,1-Trichloroethane	3,417	7,230
1,1,2-Trichloroethane	102.5	216.9
1,1-Dichloroethane	6,633	14,032
1,1-Dichloroethene	119	253
1,2-Dichloroethane	85	181
Acetone	1,132	2,395
Benzene	85	181
Carbon Tetrachloride	85	181
Chlorobenzene	22,300	47,180
Chloroform	1,708	3,615
Ethylbenzene	26,954	57,025
Xylenes	39.5	83.6
Methylene Chloride	803	1,699
Styrene	2,829	5,987
Tetrachloroethene	85.4	180.7
Toluene	1,980	4,189
Trichloroethene	85	181
Vinyl Chloride	34	72
Anions		
Chloride	*	*
Sulfate	*	*
Perchlorate**	278	589
Metals		
Aluminum	777	1,644
Arsenic	365	772
Barium	1,000	2,000
Cadmium	1.6	3.4
Chromium, Total	355	752
Chromium, Hexavalent	58	124
Cobalt	5,433	11,495
Iron	1,132	2,395
Lead	2.2	4.6
Nickel	87	184
Manganese	7,323	15,494
Silver	1.4	3
Selenium	5.7	12
Vanadium	1,698	3,592
Zinc	146	310
Other		
Hexachlorobenzene	0.22	0.47
1,4-Dioxane		134.2
Oil and Grease		15
Chemical Oxygen Demand		200

* - Based upon flow in Harrison Bayou

** - Discharge criteria, when diverted to the INF Pond, is 17 µg/L

PROTOCOL FOR DISCHARGING GWTP EFFLUENT

In accordance with the *Sampling and Analysis Plan, Groundwater Treatment Plant and Well Fields* (SAP) Table 2-2, indicator parameters for the FBR, such as temperature, pH and oxidation reduction potential (ORP), are monitored in real time to predict FBR performance and perchlorate removal. Based upon these indicator parameters, the operator of the GWTP can make adjustments such as:

- Bring the ion exchange system online;
- Increase or decrease the addition rate of electron donor (acetic acid);
- Increase or decrease the nutrient addition rate (urea or phosphoric acid); or
- Increase or decrease the FBR recirculation rate

Samples of the GWTP effluent are collected weekly, analyzed for perchlorate, nutrients (ammonia-nitrogen and ortho-phosphate), total organic carbon (TOC), chloride, and sulfate, with the results received from the laboratory 14 days later. Other parameters (e.g. Record of Decision metals and volatiles) are collected and analyzed in GWTP effluent samples according to the frequencies listed in Table 2-1 of the SAP.

As shown in Figure 1, groundwater is continuously extracted, treated, and discharged. If Harrison Bayou is flowing and indicator parameters are within their historical optimal ranges, then the ion exchange vessels can be bypassed and the GWTP effluent sample will be collected after the FBR. If Harrison Bayou is not flowing or the indicator parameters are not within historical optimal ranges, then the ion exchange vessels will be put on line, and the GWTP effluent sample will be collected between the lead and lag ion exchange vessel. Professional judgement may also be used as to when to bring the ion exchange vessels online, such as after a power outage or during anticipated cold temperatures when the FBR has historically not performed optimally.

If a parameter is measured in the effluent at a concentration above the discharge criteria, then a confirmation sample and an effluent sample after the lag ion exchange vessel will be collected and analyzed for the parameter with a 24-hour turnaround time. Corrective measures (e.g. increased nutrient or electron donor addition rates, bring ion exchange vessels on line) will be implemented as appropriate to bring the parameter back within the discharge criteria. ***If an upset condition in the FBR leads to high concentrations of perchlorate going into the lead ion exchange vessel and breaking through at the sample location between the vessels, the lag vessel will still remove perchlorate before it is discharged to Harrison Bayou, the INF Pond, or LHAAP-18/24.*** It is estimated that the lag ion exchange vessel can remove all of the perchlorate from two weeks of typical groundwater extraction at a concentration of 920 µg/L. If the residual perchlorate concentration after the FBR and lead ion exchange vessel is only 600 µg/L, the lag ion exchange vessel could last almost 2.5 years before perchlorate would be detected in the discharged effluent.

If a parameter exceeds the discharge criteria by more than 40% (see Appendix A-2, SAP, Section 7c of Monitoring and Reporting Requirements) or reaches 920 µg/L of perchlorate, then the GWTP will be put into full recycle mode (no discharge) until the parameter is below the discharge criteria again. Appendix A-2 of the SAP requires GWTP data to be provided to TCEQ monthly including a list of noncompliance(s), if applicable.

Discharge to Harrison Bayou

As shown in Figure 1, the GWTP effluent will be discharged to Harrison Bayou as long as it has a measurable flow. The flowrate in Harrison Bayou is estimated by measuring the height of water with a staff gauge and velocity in feet/sec at intervals along the width as described in the Installation-Wide Work Plan, Standard Operating Procedures, Attachment 18 – Water Depth and Velocity Measurements (AECOM, July 2014).

The allowable flow rate of GWTP effluent that can be discharged to Harrison Bayou is given by:

$$QE \leq \frac{QS\ (CC - CA)}{(CE - CC)}$$

where Q_E = GWTP effluent flow Q_S = Harrison Bayou flow

C_C = Criteria concentration (100 mg/L for chloride, 50 mg/L for sulfate)

C_A = Ambient concentration = 10 mg/L

C_E = Chloride or sulfate concentration in GWTP effluent

The allowable GWTP effluent flow will be the lower of the calculated values given the measured concentrations of chloride and sulfate in the discharge stream. For each day that GWTP effluent is discharged to Harrison Bayou, the measured Harrison Bayou flow, the allowable effluent flow, and the actual effluent flow are recorded.

Discharge to INF Pond

If Harrison Bayou is not flowing, then GWTP effluent will be discharged to the Intermediate-Range Nuclear Forces (INF) Pond for temporary storage until Harrison Bayou flow resumes. Perchlorate concentration detected in the effluent must be 17 µg/L or less, when this occurs.

The INF Pond has a flexible membrane liner protected by a soil cover with a gravity discharge pipe (and valve) to Harrison Bayou. The INF Pond has a nominal capacity of 3 million gallons with a staff gage to measure the height of water stored in the pond. The GWTP operator maintains the INF Pond by visually inspecting for erosion, vegetative growth including tree growth along the anchor trench, and liner integrity and making necessary repairs. Periodically, accumulated debris must be removed from the influent and effluent piping to the INF Pond.

Prior to discharging to the INF Pond, a lead and lag ion exchange vessel will be brought online. The GWTP Operator will also confirm that the discharge valve is closed, will record the reading on the effluent totalizer, and will record the height of water using the staff gage. The GWTP Operator will then configure valves and pumps to direct GWTP effluent to the INF Pond. The height of water in the INF Pond and totalizer reading will be recorded at the beginning and end of each shift for the duration of active discharge. When the height of water in the pond reaches 3 feet below the height of the berm (freeboard), the GWTP Operator will stop discharging to the INF Pond and TCEQ will be notified. After the TCEQ acknowledges the INF Pond level, GWTP effluent may be discharged to the INF Pond again until 2 feet of freeboard is reached. The GWTP Operator will stop discharging to the INF Pond and TCEQ will be notified again. After the TCEQ acknowledges 2 feet of freeboard in the INF Pond,GWTP effluent may be discharged again until 1 foot of freeboard remains. No additional GWTP effluent can be accepted at the INF Pond until greater than 1 foot of freeboard is measured.

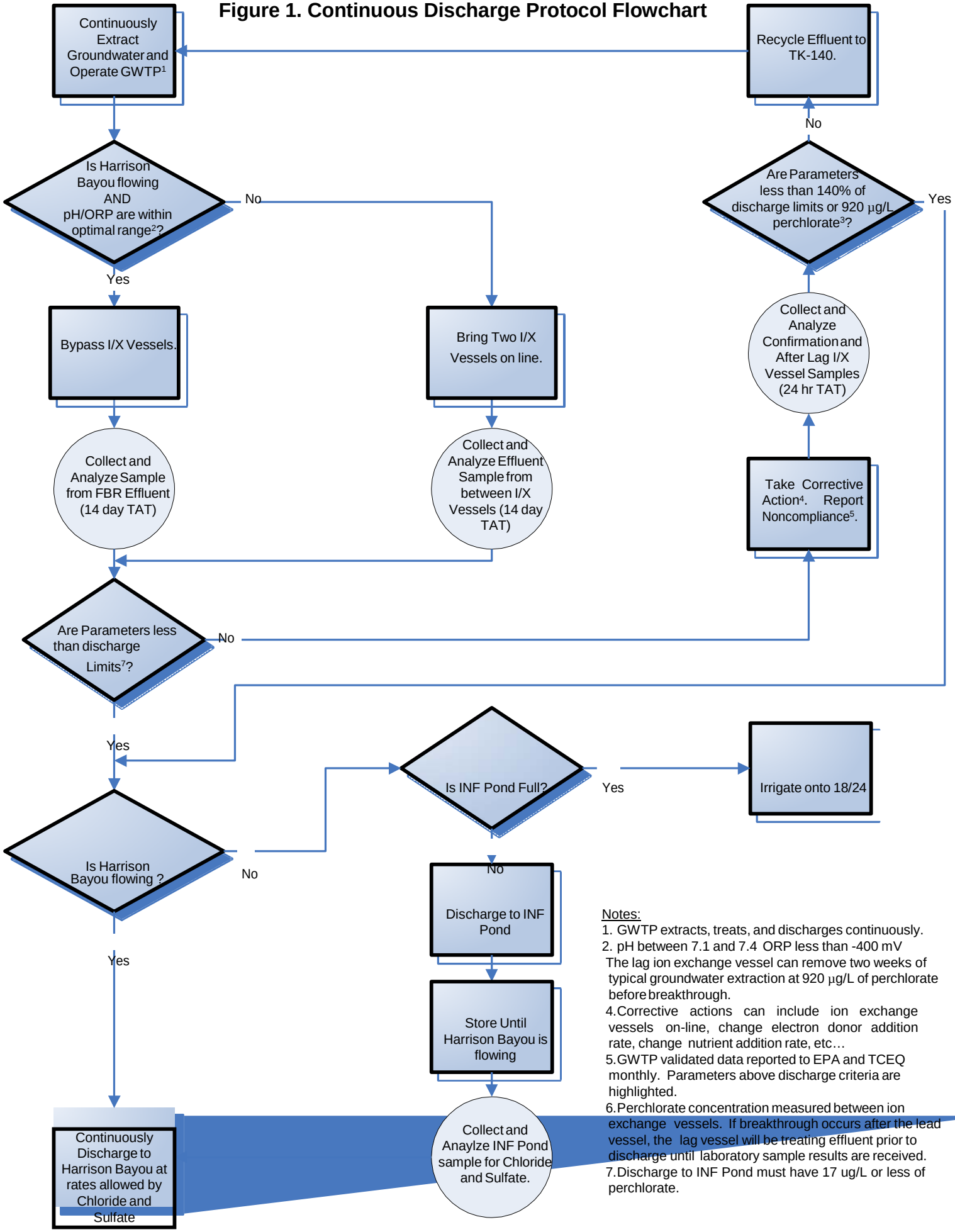
As soon as flow in Harrison Bayou returns, stored GWTP effluent from the INF Pond will be discharged. As with direct discharges from the GWTP to Harrison Bayou, the allowable flowrate of effluent from the INF Pond is calculated based upon the chloride and sulfate concentrations in the pond and the flow in Harrison Bayou. If effluent from the INF Pond and the GWTP are discharged simultaneously, total flow of both streams together should not exceed the calculated discharge level for either discharge location. For each day that INF Pond contents are discharged to Harrison Bayou, the measured Harrison Bayou flow, the allowable effluent flow, and the actual effluent flow are recorded.

Irrigation onto LHAAP-18/24

If Harrison Bayou is not flowing and the INF Pond has less than 1 foot of freeboard, then GWTP effluent will be irrigated onto LHAAP-18/24 using one of the three main sprinkler lines. To avoid pooling and runoff of irrigation water, only one line will be used for half a day at a time, with a separate line being used the second half of the day. If needed, the irrigation will occur 5 days a week for 8 hours each day (using 3 sprinklers in each line). If conditions are wet due to rain events, irrigation will not be conducted to avoid ponding and potential runoff, the GWTP will be put into recycle mode, and groundwater extraction will be interrupted if storage space is not available.

While irrigating, site inspections will be performed to ensure pooling and runoff are not occurring. During the irrigation activities, inspections will be performed twice a day, once approximately three hours and again approximately six hours into the 8-hour irrigation shift. The system will be inspected to ensure that the sprinkler heads are operating properly and not leaking large amounts of water. If ponding or runoff is observed, irrigation at that sprinkler line will cease, and irrigation at another sprinkler line will be started if possible. Volumes of GWTP effluent and twice daily inspections will be recorded daily and reported monthly until flow resumes in Harrison Bayou or greater than 1 foot of freeboard is available in the INF Pond.

Figure 1. Continuous Discharge Protocol Flowchart



Notes:

1. GWTP extracts, treats, and discharges continuously.
2. pH between 7.1 and 7.4 ORP less than -400 mV
The lag ion exchange vessel can remove two weeks of typical groundwater extraction at 920 µg/L of perchlorate before breakthrough.
4. Corrective actions can include ion exchange vessels on-line, change electron donor addition rate, change nutrient addition rate, etc…
5. GWTP validated data reported to EPA and TCEQ monthly. Parameters above discharge criteria are highlighted.
6. Perchlorate concentration measured between ion exchange vessels. If breakthrough occurs after the lead vessel, the lag vessel will be treating effluent prior to discharge until laboratory sample results are received.
7. Discharge to INF Pond must have 17 ug/L or less of perchlorate.

APPENDIX J
AIR DATA TABLES, PID READINGS, AND CALIBRATION LOGS

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Appendix J Table 1. Ambient Air Data - May 2024
Longhorn Army Ammunition Plant
Groundwater Treatment Plant

Pollutant	CAS #	Short Term ESL March 2012	AMCVs (Short Term Health)	GWTP Ambient Air Concentrations (1)		Status (3)	Downwind Ambient Air Concentrations (2)		Status (3)
		µg/m^3	µg/m^3	µg/m^3			µg/m^3		
1,1-Dichloroethane	75-34-3	4,000	4,047	0.71	U	PASS	0.69	U	PASS
1,1-Dichloroethene	75-35-4	210	714	0.62	U	PASS	0.59	U	PASS
1,2-Dichloroethane	107-06-2	160	162	0.70	U	PASS	0.67	U	PASS
Acetone	67-64-1	5,900	NA	**19**		PASS	**22**		PASS
Benzene	71-43-2	170	575	**0.91**		PASS	**0.99**		PASS
Carbon disulfide	75-15-0	30	NA	**11**		PASS	**7.4**		PASS
Chloroform	67-66-3	100	98	0.74	U	PASS	0.71	U	PASS
cis-1,2-Dichloroethene	156-59-2	7,900	NA	**6.1**		PASS	0.69	U	PASS
Methylene chloride	75-09-2	3,600	12,158	0.63	U	PASS	0.61	U	PASS
Tetrachloroethene	127-18-4	2,000	6,782	0.74	U	PASS	0.71	U	PASS
trans-1,2-Dichloroethene	156-60-5	7,900	NA	0.73	U	PASS	0.70	U	PASS
Trichloroethene	79-01-6	540	537	**6.4**		PASS	0.69	U	PASS
Vinyl chloride	75-01-4	20,000	66,460	0.73	U	PASS	0.70	U	PASS
n-Hexane	110-54-3	5,300	6,336	**3.1**		PASS	**6.6**		PASS
Styrene	100-42-5	110	21,725	0.73	U	PASS	0.70	U	PASS
Toluene	108-88-3	640	15,074	**3.8**		PASS	**5.0**	U	PASS
Ethylbenzene	100-41-4	740	86,844	0.75	U	PASS	0.73	U	PASS
m,p-Xylenes	179601-23-1	180	7,382	1.5	U	PASS	**2.2**		PASS
o-Xylene	95-47-6	1,600	7,382	0.74	U	PASS	**0.81**		PASS
1,3-Dichlorobenzene	541-73-1	720	NA	0.71	U	PASS	0.69	U	PASS
Propene (C3H6)	115-07-1	Asphyxiant	Asphyxiant	**2.5**		NA	**2.2**		NA
Dichlorodifluoromethane (CFC 12)	75-71-8	50,000	49,452	**2.6**		PASS	**2.9**		PASS
Ethanol	64-17-5	18,800	NA	**14**		PASS	**12**		PASS
Trichlorofluoromethane (CFC 11)	75-69-4	28,000	56,184	**1.4**		PASS	**1.9**		PASS
Trichlorotrifluoroethane (CFC 113)	76-13-1	38,000	NA	**5.1**		PASS	**0.93**		PASS
alpha-Pinene	80-56-8	60	3,499	1.5	U	PASS	**2.9**		PASS
d-Limonene	5989-27-5	1,100	NA	1.4	U	PASS	**1.5**		PASS

Notes:

(1) Sample collected over an 8-hour period on May 13, 2024, between 7:00 AM and 3:00 PM.

(2) Sample collected over a 24-hour period beginning on May 12, 2024 at 07:00 AM and ending on May 13, 2024 at 7:00 AM.

(3) Status based on comparison of air sample result to Air Monitoring Comparison Values (AMCVs). When there is no AMCV value for a chemical, the air sample concentration is compared to the short-term Effects Screening Level (ESL).

CAS # = Chemical Abstracts Service Number

GWTP = Groundwater Treatment Plant

U = non-detect

µg/m^3 = micrograms per cubic meter

g/mole = gram/mole

mol/m3 = mole per cubic meter

NA - Not applicable

Bold text denotes detections

Appendix J Table 2. Emission Stack Air Data - May 2024
Longhorn Army Ammunition Plant
Groundwater Treatment Plant

Pollutant	CAS #	Measured Air Stripper Stack Concentrations (1)		Air Stripper Emission Rates (2)		Air Stripper Emission Rates (2a)		Allowable Annual Emission (3)	Status (4)	TLV (5)	TLV Reference	Compliance section	Distance Downwind to nearest off-site Receptor (D)	(K) conversion value	Allowable Maximum Hourly Emission Limit at Nearest off-site Receptor (6)(7) (E) = L/K	Status (8)
		µg/m^3		lb/hr		tpy		tpy		mg/m^3			feet		lb/hr	
1,1-Dichloroethane	75-34-3	**11**		1.80E-04		1.17E-04		5	PASS	405	ACGIH List	30 TAC 106.533(f)(1)(A)(ii)	2,000	14	1.0	PASS
1,1-Dichloroethene	75-35-4	**68**		1.11E-03		7.25E-04		5	PASS	20	ACGIH List	30 TAC 106.533(f)(1)(A)(ii)	2,000	14	1.4	PASS
1,2-Dichloroethane	107-06-2	**57**		9.35E-04		6.07E-04		5	PASS	40	ACGIH List	30 TAC 106.533(f)(1)(A)(ii)	2,000	14	2.9	PASS
Acetone	67-64-1	**160**		2.62E-03		1.71E-03		5	PASS	590	106.262 List	30 TAC 106.533(f)(1)(A)(ii)	2,000	14	1.0	PASS
Benzene	71-43-2	**2.2**		3.61E-05		2.34E-05		5	PASS	3	106.262 List	30 TAC 106.533(f)(1)(A)(ii)	2,000	14	0.21	PASS
Carbon disulfide	75-15-0	1.3	U	1.07E-05	U	6.93E-06	U	5	PASS	31	ACGIH List	30 TAC 106.533(f)(1)(A)(ii)	2,000	14	2.2	PASS
Chloroform	67-66-3	**12**		1.97E-04		1.28E-04		5	PASS	10	106.262 List	30 TAC 106.533(f)(1)(A)(ii)	2,000	14	0.71	PASS
cis-1,2-Dichloroethene	156-59-2	**3700**		6.07E-02		3.94E-02		5	PASS	793	ACGIH List	30 TAC 106.533(f)(1)(A)(ii)	2,000	14	1.0	PASS
Methylene chloride	75-09-2	**6.1**		1.00E-04		6.50E-05		5	PASS	26	106.262 List	30 TAC 106.533(f)(1)(A)(ii)	2,000	14	1.9	PASS
Tetrachloroethene	127-18-4	**59**		9.67E-04		6.29E-04		5	PASS	33.5	106.262 List	30 TAC 106.533(f)(1)(A)(ii)	2,000	14	2.4	PASS
trans-1,2-Dichloroethene	156-60-5	**14**		2.30E-04		1.49E-04		5	PASS	793	ACGIH List	30 TAC 106.533(f)(1)(A)(ii)	2,000	14	1.0	PASS
Trichloroethene	79-01-6	**3700**		6.07E-02		3.94E-02		5	PASS	135	106.262 List	30 TAC 106.533(f)(1)(A)(ii)	2,000	14	6.0	PASS
Vinyl chloride	75-01-4	**120**		1.97E-03		1.28E-03		5	PASS	2	106.262 List	30 TAC 106.533(f)(1)(A)(ii)	2,000	14	0.14	PASS
n-Hexane	110-54-3	**2.7**	J	4.43E-05		2.88E-05		5	PASS	1,800	ACGIH List	30 TAC 106.533(f)(1)(A)(ii)	2,000	14	1.0	PASS
Styrene	100-42-5	0.66	U	5.41E-06	U	3.52E-06	U	5	PASS	21	106.262 List	30 TAC 106.533(f)(1)(A)(ii)	2,000	14	1.5	PASS
Toluene	108-88-3	**2.6**	J	4.26E-05		2.77E-05		5	PASS	188	ACGIH List	30 TAC 106.533(f)(1)(A)(ii)	2,000	14	6.0	PASS
Ethylbenzene	100-41-4	**0.83**		1.36E-05		8.84E-06		5	PASS	434	ACGIH List	30 TAC 106.533(f)(1)(A)(ii)	2,000	14	1.0	PASS
map-Xylenes	179601-23-1	**2.5**		4.10E-05		2.66E-05		5	PASS	434	ACGIH List	30 TAC 106.533(f)(1)(A)(ii)	2,000	14	1.0	PASS
o-Xylene	95-47-6	**0.82**		1.34E-05		8.74E-06		5	PASS	434	ACGIH List	30 TAC 106.533(f)(1)(A)(ii)	2,000	14	1.0	PASS
1,3-Dichlorobenzene	541-73-1	0.65	U	5.33E-06	U	3.46E-06	U	5	PASS	(5)	--	30 TAC 106.533(f)(1)(A)(i)	2,000	14	1.0	PASS
Propene (C3H6)	115-07-1	**6.9**		1.13E-04		7.35E-05		5	PASS	(5)	--	30 TAC 106.533(f)(1)(A)(i)	2,000	14	6.0	PASS
Dichlorodifluoromethane (CFC 12)	75-71-8	**2.5**		4.10E-05		2.66E-05		5	PASS	4,950	ACGIH List	30 TAC 106.533(f)(1)(A)(ii)	2,000	14	1.0	PASS
Ethanol	64-17-5	**15**	J	2.46E-04		1.60E-04		5	PASS	1,880	ACGIH List	30 TAC 106.533(f)(1)(A)(ii)	2,000	14	1.0	PASS
Trichlorofluoromethane (CFC 11)	75-69-4	**1.6**		2.62E-05		1.71E-05		5	PASS	5,620	ACGIH List	30 TAC 106.533(f)(1)(A)(ii)	2,000	14	1.0	PASS
Trichlorotrifluoroethane (CFC 113)	76-13-1	**3600**		5.90E-02		3.84E-02		5	PASS	7,670	ACGIH List	30 TAC 106.533(f)(1)(A)(ii)	2,000	14	1.0	PASS
alpha-Pinene	80-56-8	1.3	U	1.07E-05	U	6.93E-06	U	5	PASS	(5)	--	30 TAC 106.533(f)(1)(A)(i)	2,000	14	1.0	PASS
d-Limonene	5989-27-5	1.3	U	1.07E-05	U	6.93E-06	U	5	PASS	(5)	--	30 TAC 106.533(f)(1)(A)(i)	2,000	14	1.0	PASS
	TOTAL			0.189												

Notes:

(1) Sample collected on May 13, 2024. The higher value of the sample or duplicate is reported.

(2) Based on a blower flow rate of 4,390 cubic feet per minute (cfm). Note that plant operates less than or equal to 25 hours per week. 1/2 of detection limit was used for estimating mass rate.

(2a) Based on operation of 25 hours per week, 52 weeks per year.

(3) Per 30 TAC 106.533(f)(1)(B)

(4) Based on comparing the calculated air stripper stack sample emission rate in tons per year (tpy) to the allowable annual emission limit per chemical of 5 tpy.

(5) No Threshold Limit Values (TLVs) for these chemicals

(6) The maximum hourly limit allowed by 30 Texas Administrative Code (TAC) 106.262, per pollutant, is 6 pounds per hour (lb/hr) per "Figure 1: 30 TAC 106.262(a)". The E value was overridden with 6 lb/hr when the calculated E was higher.

(7) The maximum hourly emission rate allowed by 30 TAC 106.261(a)(3) for chemicals with a limit value (L) greater than 200 mg/m^3 is 1 lb/hr.

(8) Based on comparing the calculated air stripper stack sample emission rate in pounds per hour (lb/hr) to the allowable maximum emission limit per chemical based on distance downwind to nearest off-site receptor.

CAS # = Chemical Abstracts Service Number

mg/m^3 = milligrams per cubic meter

µg/m^3 = micrograms per cubic meter

ACGIH = American Conference of Governmental Industrial Hygienists

U = non-detect

J - estimated value between the detection limit and limit of quantitation and/or due to quality control issues

Bold text denotes detections

Date	Time	Location	Air Flow Rate at Blower	Instrument ID
4/1/2024	8:00	Outside GWTP Office	2317 ACFM	MiniRAE 3000
4/1/2024	8:00	Downwind	2317 ACFM	MiniRAE 3000
4/1/2024	8:00	Stripper	2317 ACFM	MiniRAE 3000
4/1/2024	14:00	Outside GWTP Office	2196 ACFM	MiniRAE 3000
4/1/2024	14:00	Downwind	2196 ACFM	MiniRAE 3000
4/1/2024	14:00	Stripper	2196 ACFM	MiniRAE 3000
4/4/2024	8:00	Outside GWTP Office	2492 ACFM	MiniRAE 3000
4/4/2024	8:00	Downwind	2492 ACFM	MiniRAE 3000
4/4/2024	8:00	Stripper	2492 ACFM	MiniRAE 3000
4/4/2024	14:00	Outside GWTP Office	2202 ACFM	MiniRAE 3000
4/4/2024	14:00	Downwind	2202 ACFM	MiniRAE 3000
4/4/2024	14:00	Stripper	2202 ACFM	MiniRAE 3000
4/8/2024	8:00	Outside GWTP Office	2350 ACFM	MiniRAE 3000
4/8/2024	8:00	Downwind	2350 ACFM	MiniRAE 3000
4/8/2024	8:00	Stripper	2350 ACFM	MiniRAE 3000
4/8/2024	13:00	Outside GWTP Office	2298 ACFM	MiniRAE 3000
4/8/2024	13:00	Downwind	2298 ACFM	MiniRAE 3000
4/8/2024	13:00	Stripper	2298 ACFM	MiniRAE 3000
4/9/2024	8:00	Outside GWTP Office	2307 ACFM	MiniRAE 3000
4/9/2024	8:00	Downwind	2307 ACFM	MiniRAE 3000
4/9/2024	8:00	Stripper	2307 ACFM	MiniRAE 3000
4/9/2024	13:00	Outside GWTP Office	2280 ACFM	MiniRAE 3000
4/9/2024	13:00	Downwind	2280 ACFM	MiniRAE 3000
4/9/2024	13:00	Stripper	2280 ACFM	MiniRAE 3000
4/11/2024	8:00	Outside GWTP Office	2337 ACFM	MiniRAE 3000
4/11/2024	8:00	Downwind	2337 ACFM	MiniRAE 3000
4/11/2024	8:00	Stripper	2337 ACFM	MiniRAE 3000
4/11/2024	11:00	Outside GWTP Office	2118 ACFM	MiniRAE 3000
4/11/2024	11:00	Downwind	2118 ACFM	MiniRAE 3000
4/11/2024	11:00	Stripper	2118 ACFM	MiniRAE 3000
4/15/2024	8:00	Outside GWTP Office	2381 ACFM	MiniRAE 3000
4/15/2024	8:00	Downwind	2381 ACFM	MiniRAE 3000
4/15/2024	8:00	Stripper	2381 ACFM	MiniRAE 3000
4/15/2024	13:00	Outside GWTP Office	2296 ACFM	MiniRAE 3000
4/15/2024	13:00	Downwind	2296 ACFM	MiniRAE 3000
4/15/2024	13:00	Stripper	2296 ACFM	MiniRAE 3000
4/16/2024	8:00	Outside GWTP Office	2343 ACFM	MiniRAE 3000
4/16/2024	8:00	Downwind	2343 ACFM	MiniRAE 3000
4/16/2024	8:00	Stripper	2343 ACFM	MiniRAE 3000
4/16/2024	13:00	Outside GWTP Office	2210 ACFM	MiniRAE 3000

4/16/2024	13:00	Downwind	2210 ACFM	MiniRAE 3000
4/16/2024	13:00	Stripper	2210 ACFM	MiniRAE 3000
4/18/2024	8:00	Outside GWTP Office	2360 ACFM	MiniRAE 3000
4/18/2024	8:00	Downwind	2360 ACFM	MiniRAE 3000
4/18/2024	8:00	Stripper	2360 ACFM	MiniRAE 3000
4/18/2024	11:00	Outside GWTP Office	2231 ACFM	MiniRAE 3000
4/18/2024	11:00	Downwind	2231 ACFM	MiniRAE 3000
4/18/2024	11:00	Stripper	2231 ACFM	MiniRAE 3000
4/22/2024	8:00	Outside GWTP Office	2331 ACFM	MiniRAE 3000
4/22/2024	8:00	Downwind	2331 ACFM	MiniRAE 3000
4/22/2024	8:00	Stripper	2331 ACFM	MiniRAE 3000
4/22/2024	13:00	Outside GWTP Office	2211 ACFM	MiniRAE 3000
4/22/2024	13:00	Downwind	2211 ACFM	MiniRAE 3000
4/22/2024	13:00	Stripper	2211 ACFM	MiniRAE 3000
4/23/2024	8:00	Outside GWTP Office	2343 ACFM	MiniRAE 3000
4/23/2024	8:00	Downwind	2343 ACFM	MiniRAE 3000
4/23/2024	8:00	Stripper	2343 ACFM	MiniRAE 3000
4/23/2024	14:00	Outside GWTP Office	2163 ACFM	MiniRAE 3000
4/23/2024	14:00	Downwind	2163 ACFM	MiniRAE 3000
4/23/2024	14:00	Stripper	2163 ACFM	MiniRAE 3000
4/25/2024	8:00	Outside GWTP Office	2385 ACFM	MiniRAE 3000
4/25/2024	8:00	Downwind	2385 ACFM	MiniRAE 3000
4/25/2024	8:00	Stripper	2385 ACFM	MiniRAE 3000
4/25/2024	10:00	Outside GWTP Office	2245 ACFM	MiniRAE 3000
4/25/2024	10:00	Downwind	2245 ACFM	MiniRAE 3000
4/25/2024	10:00	Stripper	2245 ACFM	MiniRAE 3000
4/29/2024	9:00	Outside GWTP Office	2307 ACFM	MiniRAE 3000
4/29/2024	9:00	Downwind	2307 ACFM	MiniRAE 3000
4/29/2024	9:00	Stripper	2307 ACFM	MiniRAE 3000
4/29/2024	13:00	Outside GWTP Office	2295 ACFM	MiniRAE 3000
4/29/2024	13:00	Downwind	2295 ACFM	MiniRAE 3000
4/29/2024	13:00	Stripper	2295 ACFM	MiniRAE 3000
4/30/2024	8:00	Outside GWTP Office	2314 ACFM	MiniRAE 3000
4/30/2024	8:00	Downwind	2314 ACFM	MiniRAE 3000
4/30/2024	8:00	Stripper	2314 ACFM	MiniRAE 3000
4/30/2024	12:00	Outside GWTP Office	2287 ACFM	MiniRAE 3000
4/30/2024	12:00	Downwind	2287 ACFM	MiniRAE 3000
4/30/2024	12:00	Stripper	2287 ACFM	MiniRAE 3000
5/2/2024	8:00	Outside GWTP Office	2387 ACFM	MiniRAE 3000
5/2/2024	8:00	Downwind	2387 ACFM	MiniRAE 3000

5/2/2024	8:00	Stripper	2387 ACFM	MiniRAE 3000
5/2/2024	10:00	Outside GWTP Office	2223 ACFM	MiniRAE 3000
5/2/2024	10:00	Downwind	2223 ACFM	MiniRAE 3000
5/2/2024	10:00	Stripper	2223 ACFM	MiniRAE 3000
5/6/2024	8:00	Outside GWTP Office	2248 ACFM	MiniRAE 3000
5/6/2024	8:00	Downwind	2248 ACFM	MiniRAE 3000
5/6/2024	8:00	Stripper	2248 ACFM	MiniRAE 3000
5/6/2024	13:00	Outside GWTP Office	2196 ACFM	MiniRAE 3000
5/6/2024	13:00	Downwind	2196 ACFM	MiniRAE 3000
5/6/2024	13:00	Stripper	2196 ACFM	MiniRAE 3000
5/7/2024	8:00	Outside GWTP Office	2231 ACFM	MiniRAE 3000
5/7/2024	8:00	Downwind	2231 ACFM	MiniRAE 3000
5/7/2024	8:00	Stripper	2231 ACFM	MiniRAE 3000
5/7/2024	11:00	Outside GWTP Office	2189 ACFM	MiniRAE 3000
5/7/2024	11:00	Downwind	2189 ACFM	MiniRAE 3000
5/7/2024	11:00	Stripper	2189 ACFM	MiniRAE 3000
5/9/2024	8:00	Outside GWTP Office	2318 ACFM	MiniRAE 3000
5/9/2024	8:00	Downwind	2318 ACFM	MiniRAE 3000
5/9/2024	8:00	Stripper	2318 ACFM	MiniRAE 3000
5/9/2024	10:00	Outside GWTP Office	2248 ACFM	MiniRAE 3000
5/9/2024	10:00	Downwind	2248 ACFM	MiniRAE 3000
5/9/2024	10:00	Stripper	2248 ACFM	MiniRAE 3000
5/13/2024	8:00	Outside GWTP Office	2306 ACFM	MiniRAE 3000
5/13/2024	8:00	Downwind	2306 ACFM	MiniRAE 3000
5/13/2024	8:00	Stripper	2306 ACFM	MiniRAE 3000
5/13/2024	13:00	Outside GWTP Office	2218 ACFM	MiniRAE 3000
5/13/2024	13:00	Downwind	2218 ACFM	MiniRAE 3000
5/13/2024	13:00	Stripper	2218 ACFM	MiniRAE 3000
5/14/2024	8:00	Outside GWTP Office	2363 ACFM	MiniRAE 3000
5/14/2024	8:00	Downwind	2363 ACFM	MiniRAE 3000
5/14/2024	8:00	Stripper	2363 ACFM	MiniRAE 3000
5/14/2024	11:00	Outside GWTP Office	2179 ACFM	MiniRAE 3000
5/14/2024	11:00	Downwind	2179 ACFM	MiniRAE 3000
5/14/2024	11:00	Stripper	2179 ACFM	MiniRAE 3000
5/16/2024	8:00	Outside GWTP Office	2296 ACFM	MiniRAE 3000
5/16/2024	8:00	Downwind	2296 ACFM	MiniRAE 3000
5/16/2024	8:00	Stripper	2296 ACFM	MiniRAE 3000
5/16/2024	10:00	Outside GWTP Office	2271 ACFM	MiniRAE 3000
5/16/2024	10:00	Downwind	2271 ACFM	MiniRAE 3000
5/16/2024	10:00	Stripper	2271 ACFM	MiniRAE 3000

5/20/2024	8:00	Outside GWTP Office	2287 ACFM	MiniRAE 3000
5/20/2024	8:00	Downwind	2287 ACFM	MiniRAE 3000
5/20/2024	8:00	Stripper	2287 ACFM	MiniRAE 3000
5/20/2024	14:00	Outside GWTP Office	2152 ACFM	MiniRAE 3000
5/20/2024	14:00	Downwind	2152 ACFM	MiniRAE 3000
5/20/2024	14:00	Stripper	2152 ACFM	MiniRAE 3000
6/10/2024	9:30	Outside GWTP Office	2196 ACFM	MiniRAE 3000
6/10/2024	9:30	Downwind	2196 ACFM	MiniRAE 3000
6/10/2024	9:30	Stripper	2196 ACFM	MiniRAE 3000
6/13/2024	8:00	Outside GWTP Office	2114 ACFM	MiniRAE 3000
6/13/2024	8:00	Downwind	2114 ACFM	MiniRAE 3000
6/13/2024	8:00	Stripper	2114 ACFM	MiniRAE 3000
6/13/2024	10:00	Outside GWTP Office	2026 ACFM	MiniRAE 3000
6/13/2024	10:00	Downwind	2026 ACFM	MiniRAE 3000
6/13/2024	10:00	Stripper	2026 ACFM	MiniRAE 3000
6/17/2024	8:00	Outside GWTP Office	2162 ACFM	MiniRAE 3000
6/17/2024	8:00	Downwind	2162 ACFM	MiniRAE 3000
6/17/2024	8:00	Stripper	2162 ACFM	MiniRAE 3000
6/17/2024	14:00	Outside GWTP Office	1993 ACFM	MiniRAE 3000
6/17/2024	14:00	Downwind	1993 ACFM	MiniRAE 3000
6/17/2024	14:00	Stripper	1993 ACFM	MiniRAE 3000
6/20/2024	8:00	Outside GWTP Office	2218 ACFM	MiniRAE 3000
6/20/2024	8:00	Downwind	2218 ACFM	MiniRAE 3000
6/20/2024	8:00	Stripper	2218 ACFM	MiniRAE 3000
6/20/2024	10:00	Outside GWTP Office	2042 ACFM	MiniRAE 3000
6/20/2024	10:00	Downwind	2042 ACFM	MiniRAE 3000
6/20/2024	10:00	Stripper	2042 ACFM	MiniRAE 3000
6/24/2024	8:00	Outside GWTP Office	2231 ACFM	MiniRAE 3000
6/24/2024	8:00	Downwind	2231 ACFM	MiniRAE 3000
6/24/2024	8:00	Stripper	2231 ACFM	MiniRAE 3000
6/24/2024	13:00	Outside GWTP Office	2082 ACFM	MiniRAE 3000
6/24/2024	13:00	Downwind	2082 ACFM	MiniRAE 3000
6/24/2024	13:00	Stripper	2082 ACFM	MiniRAE 3000
6/26/2024	8:00	Outside GWTP Office	2296 ACFM	MiniRAE 3000
6/26/2024	8:00	Downwind	2296 ACFM	MiniRAE 3000
6/26/2024	8:00	Stripper	2296 ACFM	MiniRAE 3000
6/26/2024	10:00	Outside GWTP Office	2013 ACFM	MiniRAE 3000
6/26/2024	10:00	Downwind	2013 ACFM	MiniRAE 3000
6/26/2024	10:00	Stripper	2013 ACFM	MiniRAE 3000

Person Collecting	PID Reading	Weather Conditions
Kennie Moore	0.0 ppm	Cloudy 68°F
Kennie Moore	0.0 ppm	Cloudy 68°F
Kennie Moore	Max. 25.4 ppm Steady State 6.9 ppm	Cloudy 68°F
Scott Beesinger	0.0 ppm	Cloudy 81°F
Scott Beesinger	0.0 ppm	Cloudy 81°F
Scott Beesinger	Max. 24.3 ppm Steady State 5.2 ppm	Cloudy 81°F
Kennie Moore	0.0 ppm	Clear 41°F
Kennie Moore	0.0 ppm	Clear 41°F
Kennie Moore	Max. 23.6 ppm Steady State 6.5 ppm	Clear 41°F
Scott Beesinger	0.0 ppm	Clear 75°F
Scott Beesinger	0.0 ppm	Clear 75°F
Scott Beesinger	Max. 21.9 ppm Steady State 5.7 ppm	Clear 75°F
Kennie Moore	0.0 ppm	Clear 67°F
Kennie Moore	0.0 ppm	Clear 67°F
Kennie Moore	Max. 22.9 ppm Steady State 6.3 ppm	Clear 67°F
Scott Beesinger	0.0 ppm	Cloudy 78°F
Scott Beesinger	0.0 ppm	Cloudy 78°F
Scott Beesinger	Max. 20.4 ppm Steady State 5.2 ppm	Cloudy 78°F
Kennie Moore	0.0 ppm	Rain 62°F
Kennie Moore	0.0 ppm	Rain 62°F
Kennie Moore	Max. 24.4 ppm Steady State 7.0 ppm	Rain 62°F
Scott Beesinger	0.0 ppm	Rain 66°F
Scott Beesinger	0.0 ppm	Rain 66°F
Scott Beesinger	Max. 21.8 ppm Steady State 6.3 ppm	Rain 66°F
Kennie Moore	0.0 ppm	Clear 56°F
Kennie Moore	0.0 ppm	Clear 56°F
Kennie Moore	Max. 22.1 ppm Steady State 6.5 ppm	Clear 56°F
Scott Beesinger	0.0 ppm	Clear 65°F
Scott Beesinger	0.0 ppm	Clear 65°F
Scott Beesinger	Max. 20.5 ppm Steady State 5.4 ppm	Clear 65°F
Kennie Moore	0.0 ppm	Cloudy 69°F
Kennie Moore	0.0 ppm	Cloudy 69°F
Kennie Moore	Max. 24.7 ppm Steady State 6.9 ppm	Cloudy 69°F
Scott Beesinger	0.0 ppm	Cloudy 75°F
Scott Beesinger	0.0 ppm	Cloudy 75°F
Scott Beesinger	Max. 21.1 ppm Steady State 5.5 ppm	Cloudy 75°F
Kennie Moore	0.0 ppm	Cloudy 68°F
Kennie Moore	0.0 ppm	Cloudy 68°F
Kennie Moore	Max. 22.5 ppm Steady State 5.8 ppm	Cloudy 68°F
Scott Beesinger	0.0 ppm	Cloudy 77°F

Scott Beesinger	0.0 ppm		Cloudy 77°F
Scott Beesinger	Max. 20.1 ppm	Steady State 5.0 ppm	Cloudy 77°F
Kennie Moore	0.0 ppm		Cloudy 72°F
Kennie Moore	0.0 ppm		Cloudy 72°F
Kennie Moore	Max. 23.7 ppm	Steady State 6.8 ppm	Cloudy 72°F
Scott Beesinger	0.0 ppm		Cloudy 74°F
Scott Beesinger	0.0 ppm		Cloudy 74°F
Scott Beesinger	Max. 22.9 ppm	Steady State 6.4 ppm	Cloudy 74°F
Kennie Moore	0.0 ppm		Clear 46°F
Kennie Moore	0.0 ppm		Clear 46°F
Kennie Moore	Max. 23.0 ppm	Steady State 6.1 ppm	Clear 46°F
Scott Beesinger	0.0 ppm		Clear 66°F
Scott Beesinger	0.0 ppm		Clear 66°F
Scott Beesinger	Max. 21.6 ppm	Steady State 5.4 ppm	Clear 66°F
Kennie Moore	0.0 ppm		Clear 52°F
Kennie Moore	0.0 ppm		Clear 52°F
Kennie Moore	Max. 24.9 ppm	Steady State 7.1 ppm	Clear 52°F
Scott Beesinger	0.0 ppm		Clear 76°F
Scott Beesinger	0.0 ppm		Clear 76°F
Scott Beesinger	Max. 22.2 ppm	Steady State 6.3 ppm	Clear 76°F
Kennie Moore	0.0 ppm		Clear 64°F
Kennie Moore	0.0 ppm		Clear 64°F
Kennie Moore	Max. 22.7 ppm	Steady State 6.3 ppm	Clear 64°F
Scott Beesinger	0.0 ppm		Clear 71°F
Scott Beesinger	0.0 ppm		Clear 71°F
Scott Beesinger	Max. 21.1 ppm	Steady State 5.5 ppm	Clear 71°F
Kennie Moore	0.0 ppm		Cloudy 68°F
Kennie Moore	0.0 ppm		Cloudy 68°F
Kennie Moore	Max. 23.3 ppm	Steady State 6.4 ppm	Cloudy 68°F
Scott Beesinger	0.0 ppm		Cloudy 71°F
Scott Beesinger	0.0 ppm		Cloudy 71°F
Scott Beesinger	Max. 21.5 ppm	Steady State 5.7 ppm	Cloudy 71°F
Kennie Moore	0.0 ppm		Cloudy 65°F
Kennie Moore	0.0 ppm		Cloudy 65°F
Kennie Moore	Max. 22.9 ppm	Steady State 5.9 ppm	Cloudy 65°F
Scott Beesinger	0.0 ppm		Cloudy 78°F
Scott Beesinger	0.0 ppm		Cloudy 78°F
Scott Beesinger	Max. 23.3 ppm	Steady State 6.2 ppm	Cloudy 78°F
Kennie Moore	0.0 ppm		Rain 69°F
Kennie Moore	0.0 ppm		Rain 69°F

Kennie Moore	Max. 24.1 ppm	Steady State 6.9 ppm	Rain 69°F
Scott Beesinger	0.0 ppm		Rain 69°F
Scott Beesinger	0.0 ppm		Rain 69°F
Scott Beesinger	Max. 22.2 ppm	Steady State 6.3 ppm	Rain 69°F
Kennie Moore	0.0 ppm		Cloudy 72°F
Kennie Moore	0.0 ppm		Cloudy 72°F
Kennie Moore	Max. 25.4 ppm	Steady State 7.5 ppm	Cloudy 72°F
Scott Beesinger	0.0 ppm		Cloudy 80°F
Scott Beesinger	0.0 ppm		Cloudy 80°F
Scott Beesinger	Max. 22.7 ppm	Steady State 6.8 ppm	Cloudy 80°F
Kennie Moore	0.0 ppm		Cloudy 74°F
Kennie Moore	0.0 ppm		Cloudy 74°F
Kennie Moore	Max. 22.9 ppm	Steady State 6.1 ppm	Cloudy 74°F
Scott Beesinger	0.0 ppm		Cloudy 81°F
Scott Beesinger	0.0 ppm		Cloudy 81°F
Scott Beesinger	Max. 20.7 ppm	Steady State 5.5 ppm	Cloudy 81°F
Kennie Moore	0.0 ppm		Clear 69°F
Kennie Moore	0.0 ppm		Clear 69°F
Kennie Moore	Max. 23.5 ppm	Steady State 6.4 ppm	Clear 69°F
Scott Beesinger	0.0 ppm		Cloudy 74°F
Scott Beesinger	0.0 ppm		Cloudy 74°F
Scott Beesinger	Max. 20.7 ppm	Steady State 5.5 ppm	Cloudy 74°F
Kennie Moore	0.0 ppm		Cloudy 68°F
Kennie Moore	0.0 ppm		Cloudy 68°F
Kennie Moore	Max. 23.9 ppm	Steady State 6.6 ppm	Cloudy 68°F
Scott Beesinger	0.0 ppm		Cloudy 72°F
Scott Beesinger	0.0 ppm		Cloudy 72°F
Scott Beesinger	Max. 20.1 ppm	Steady State 5.4 ppm	Cloudy 72°F
Kennie Moore	0.0 ppm		Clear 66°F
Kennie Moore	0.0 ppm		Clear 66°F
Kennie Moore	Max. 22.3 ppm	Steady State 5.7 ppm	Clear 66°F
Scott Beesinger	0.0 ppm		Clear 76°F
Scott Beesinger	0.0 ppm		Clear 76°F
Scott Beesinger	Max. 20.5 ppm	Steady State 5.0 ppm	Clear 76°F
Kennie Moore	0.0 ppm		Clear 67°F
Kennie Moore	0.0 ppm		Clear 67°F
Kennie Moore	Max. 22.6 ppm	Steady State 5.9 ppm	Clear 67°F
Scott Beesinger	0.0 ppm		Clear 75°F
Scott Beesinger	0.0 ppm		Clear 75°F
Scott Beesinger	Max. 21.5 ppm	Steady State 5.3 ppm	Clear 75°F

Kennie Moore	0.0 ppm		Clear 70°F
Kennie Moore	0.0 ppm		Clear 70°F
Kennie Moore	Max. 23.1 ppm	Steady State 6.2 ppm	Clear 70°F
Scott Beesinger	0.0 ppm		Clear 89°F
Scott Beesinger	0.0 ppm		Clear 89°F
Scott Beesinger	Max. 21.4 ppm	Steady State 5.7 ppm	Clear 89°F
Kennie Moore	0.0 ppm		Clear 77°F
Kennie Moore	0.0 ppm		Clear 77°F
Kennie Moore	Max. 22.7 ppm	Steady State 6.3 ppm	Clear 77°F
Kennie Moore	0.0 ppm		Clear 67°F
Kennie Moore	0.0 ppm		Clear 67°F
Kennie Moore	Max. 22.3 ppm	Steady State 6.1 ppm	Clear 67°F
Kennie Moore	0.0 ppm		Clear 79°F
Kennie Moore	0.0 ppm		Clear 79°F
Kennie Moore	Max. 21.1 ppm	Steady State 5.4 ppm	Clear 79°F
Kennie Moore	0.0 ppm		Clear 76°F
Kennie Moore	0.0 ppm		Clear 76°F
Kennie Moore	Max. 22.6 ppm	Steady State 6.1 ppm	Clear 76°F
Kennie Moore	0.0 ppm		Clear 90°F
Kennie Moore	0.0 ppm		Clear 90°F
Kennie Moore	Max. 21.2 ppm	Steady State 5.1 ppm	Clear 90°F
Kennie Moore	0.0 ppm		Clear 76°F
Kennie Moore	0.0 ppm		Clear 76°F
Kennie Moore	Max. 22.8 ppm	Steady State 6.6 ppm	Clear 76°F
Kennie Moore	0.0 ppm		Clear 83°F
Kennie Moore	0.0 ppm		Clear 83°F
Kennie Moore	Max. 21.9 ppm	Steady State 5.4 ppm	Clear 83°F
Scott Beesinger	0.0 ppm		Clear 79°F
Scott Beesinger	0.0 ppm		Clear 79°F
Scott Beesinger	Max. 23.3 ppm	Steady State 6.7 ppm	Clear 79°F
Scott Beesinger	0.0 ppm		Clear 95°F
Scott Beesinger	0.0 ppm		Clear 95°F
Scott Beesinger	Max. 21.6 ppm	Steady State 6.0 ppm	Clear 95°F
Scott Beesinger	0.0 ppm		Clear 80°F
Scott Beesinger	0.0 ppm		Clear 80°F
Scott Beesinger	Max. 24.4 ppm	Steady State 7.0 ppm	Clear 80°F
Scott Beesinger	0.0 ppm		Clear 87°F
Scott Beesinger	0.0 ppm		Clear 87°F
Scott Beesinger	Max. 22.2 ppm	Steady State 6.1 ppm	Clear 87°F

Field Instrument Calibration Records

SITE NAME: GWTP AT LHAAP

INSTRUMENT (MAKE/MODEL#) MINI RAE 3000 INSTRUMENT # PGM 7320

PARAMETER:

☐ TEMPERATURE ☐ CONDUCTIVITY ☐ pH

☐ TURBIDITY ☐ ORP ☐ DO ☒ OTHER P.I.D

STANDARDS: [Specify the type(S) of standards used for calibration, the provenance of the standards and the standard values.]

Standard A 100 ppm ISOBUTYLENE LOT # CAP-248-100-5

Standard B

Standard C

DATE (DD/MM/YY)	TIME (hr:min)	STD (A, B,C)	STD VALUE	INSTRUMENT RESPONSE	DEV	CALIBRATED (YES, NO)	INSTRUMENT ID#	SAMPLER INITIALS
4/1/24	0630	A	100ppm	100 ppm	NA	Yes	PGM7320	SB
4/4/24	0615	A	100ppm	100 ppm	NA	Yes	PGM7320	SB
4/8/24	0635	A	100ppm	100 ppm	NA	Yes	PGM7320	SB
4/9/24	0645	A	100 ppm	100 ppm	NA	Yes	PGM 7320	SB
4/11/24	0620	A	100 ppm	100 ppm	NA	Yes	PGM 7320	SB
4/15/24	0700	A	100 ppm	100 ppm	NA	Yes	PGM 7320	SB
4/16/24	0715	A	100 ppm	100 ppm	NA	Yes	PGM 7320	SB
4/18/24	0655	A	100 ppm	100 ppm	NA	Yes	PGM 7320	SB
4/22/24	0645	A	100 ppm	100 ppm	NA	Yes	PGM7320	SB
4/23/24	0615	A	100 ppm	100 ppm	NA	Yes	PGM7320	SB
4/25/24	0645	A	100 ppm	100 ppm	NA	Yes	PGM7320	SB
4/29/24	0820	A	100 ppm	100 ppm	NA	Yes	PGM7320	SB
4/30/24	0650	A	100 ppm	100 ppm	NA	Yes	PGM7320	SB
5/2/24	0705	A	100 ppm	100 ppm	NA	Yes	PGM7320	SB
5/6/24	0725	A	100 ppm	100 ppm	NA	Yes	PGM7320	SB
5/7/24	0735	A	100 ppm	100 ppm	NA	Yes	PGM7320	SB
5/9/24	0645	A	100 ppm	100 ppm	NA	Yes	PGM7320	SB
5/13/24	0630	A	100 ppm	100 ppm	NA	Yes	PGM7320	SB
5/14/24	0650	A	100 ppm	100 ppm	NA	Yes	PGM7320	SB
5/16/24	0630	A	100 ppm	100 ppm	NA	Yes	PGM7320	SB

Field Instrument Calibration Records

SITE NAME: GWTP @ LHAAP

INSTRUMENT (MAKE/MODEL#) MiNi RAE 3000 INSTRUMENT # PGM 7320

PARAMETER:

☐ TEMPERATURE ☐ CONDUCTIVITY ☐ pH

☐ TURBIDITY ☐ ORP ☐ DO ☒ OTHER PID

STANDARDS: [Specify the type(S) of standards used for calibration, the provenance of the standards and the standard values.]

Standard A 100 ppm Iso Butylene Lot # CAP-248-100-5

Standard B

Standard C

DATE (DD/MM/YY)	TIME (hr:min)	STD (A, B,C)	STD VALUE	INSTRUMENT RESPONSE	DEV	CALIBRATED (YES, NO)	INSTRUMENT ID#	SAMPLER INITIALS
5/20/24	0630	A	100ppm	100ppm	NA	Yes	PGM7320	SB
6/11/24	0615	A	100ppm	100ppm	NA	YES	PGM7320	SB
6/13/24	0620	A	100ppm	100ppm	NA	YES	PGM7320	SB
6/17/24	0615	A	100ppm	100ppm	NA	YES	PGM7320	SB
6/20/24	0630	A	100ppm	100ppm	NA	YES	PGM7320	SB
6/24/24	0640	A	100ppm	100ppm	NA	YES	PGM7320	SB
6/26/24	0645	A	100ppm	100ppm	NA	YES	PGM7320	SB

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alsglobal.com

WorkOrder: HS24060293

LHAAP Site 18/24

Bhate Environmental Associates, Inc.

Marcia Olive
445 Union Blvd Ste 129
Lakewood CO 80228

18-Jul-2024

WorkOrder: HS24060293

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HS24060293 LHAAP Site 1824 COVER PAGE

ALS WO# HS24060293

HS24060293 LHAAP Site 1824 Final

ALS WO# HS24060293

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June 28, 2024

Marcia Olive
Bhate Environmental Associates, Inc.
445 Union Blvd Ste 129
Lakewood, CO 80228

Work Order: **HS24060293**

Laboratory Results for: **LHAAP Site 18/24**

Dear Marcia Olive,

ALS Environmental received 7 sample(s) on Jun 06, 2024 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: JUMOKE.LAWAL
Luis.Aguilar

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
Work Order: HS24060293

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS24060293-01	MW5_060524	Groundwater		05-Jun-2024 09:25	06-Jun-2024 09:45	☐
HS24060293-02	18CPTMW08DW_060524	Groundwater		05-Jun-2024 10:10	06-Jun-2024 09:45	☐
HS24060293-03	18CPTMW08SW_060524	Groundwater		05-Jun-2024 10:55	06-Jun-2024 09:45	☐
HS24060293-04	18CPTMW03SW_060524	Groundwater		05-Jun-2024 11:40	06-Jun-2024 09:45	☐
HS24060293-05	18CPTMW022DW_060524	Groundwater		05-Jun-2024 12:35	06-Jun-2024 09:45	☐
HS24060293-06	18CPTMW022R_060524	Groundwater		05-Jun-2024 13:20	06-Jun-2024 09:45	☐
HS24060293-07	CG-052424-73	Water		05-Jun-2024 00:00	06-Jun-2024 09:45	☐

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc. **CASE NARRATIVE**
Project: LHAAP Site 18/24
Work Order: HS24060293

Work Order Comments

• The analysis for Perchlorate was subcontracted to ALS High Res Lab Houston, TX. Final report attached.

GCMS Semivolatiles by Method SW8270SIM

Batch ID: 213147

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

GCMS Volatiles by Method SW8260

Batch ID: R469580

Sample ID: 18CPTMW022R_060524 (HS24060293-06)

• Surrogates failed outside control limits high. Sample is ND.

Sample ID: 18CPTMW03SW_060524 (HS24060293-04)

• Surrogate failed outside control limits high. There are no hits associated with this surrogate.

Sample ID: HS24060434-01MS

• MS/MSD was performed on an unrelated sample.

Metals by Method SW7470A

Batch ID: 213707

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Metals by Method SW6020A

Batch ID: 213517

Sample ID: HS24060434-09MS

• MS and MSD are for an unrelated sample

Sample ID: HS24060434-09PDS

• PDS is for an unrelated sample (Sodium)

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
Sample ID: MW5_060524
Collection Date: 05-Jun-2024 09:25

ANALYTICAL REPORT
WorkOrder:HS24060293
Lab ID:HS24060293-01
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
1,1,1,2-Tetrachloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 00:19
1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 00:19
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.50	1.0	ug/L	1	16-Jun-2024 00:19
1,1,2-Trichloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 00:19
1,1-Dichloroethane	**3.3**		**0.20**	**0.50**	**1.0**	**ug/L**	1	16-Jun-2024 00:19
1,1-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 00:19
1,1-Dichloropropene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 00:19
1,2,3-Trichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	16-Jun-2024 00:19
1,2,3-Trichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	16-Jun-2024 00:19
1,2,4-Trichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	16-Jun-2024 00:19
1,2,4-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 00:19
1,2-Dibromo-3-chloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 00:19
1,2-Dibromoethane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 00:19
1,2-Dichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	16-Jun-2024 00:19
1,2-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 00:19
1,2-Dichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	16-Jun-2024 00:19
1,3,5-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 00:19
1,3-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	16-Jun-2024 00:19
1,3-Dichloropropane	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 00:19
1,4-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	16-Jun-2024 00:19
2,2-Dichloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 00:19
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	16-Jun-2024 00:19
2-Chlorotoluene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 00:19
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	16-Jun-2024 00:19
4-Chlorotoluene	0.50	U	0.40	0.50	1.0	ug/L	1	16-Jun-2024 00:19
4-Isopropyltoluene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 00:19
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	16-Jun-2024 00:19
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	16-Jun-2024 00:19
Benzene	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 00:19
Bromobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	16-Jun-2024 00:19
Bromochloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 00:19
Bromodichloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 00:19
Bromoform	0.50	U	0.40	0.50	1.0	ug/L	1	16-Jun-2024 00:19
Bromomethane	0.50	U	0.40	0.50	1.0	ug/L	1	16-Jun-2024 00:19
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	16-Jun-2024 00:19
Carbon tetrachloride	0.50	U	0.50	0.50	1.0	ug/L	1	16-Jun-2024 00:19
Chlorobenzene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 00:19
Chloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 00:19
Chloroform	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 00:19

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
Sample ID: MW5_060524
Collection Date: 05-Jun-2024 09:25

ANALYTICAL REPORT
WorkOrder:HS24060293
Lab ID:HS24060293-01
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: TS
Chloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 00:19
cis-1,2-Dichloroethene	**12**		**0.20**	**0.50**	**1.0**	**ug/L**	1	16-Jun-2024 00:19
cis-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 00:19
Dibromochloromethane	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 00:19
Dibromomethane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 00:19
Dichlorodifluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 00:19
Ethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 00:19
Hexachlorobutadiene	0.50	U	1.0	0.50	1.0	ug/L	1	16-Jun-2024 00:19
Isopropylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 00:19
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	16-Jun-2024 00:19
Methylene chloride	0.50	U	0.40	0.50	2.0	ug/L	1	16-Jun-2024 00:19
n-Butylbenzene	0.50	U	0.40	0.50	1.0	ug/L	1	16-Jun-2024 00:19
n-Propylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 00:19
Naphthalene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 00:19
o-Xylene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 00:19
sec-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 00:19
Styrene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 00:19
tert-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 00:19
Tetrachloroethene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 00:19
Toluene	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 00:19
trans-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 00:19
trans-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 00:19
Trichloroethene	**44**		**0.20**	**0.50**	**1.0**	**ug/L**	1	16-Jun-2024 00:19
Trichlorofluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 00:19
Vinyl chloride	**3.7**		**0.20**	**0.50**	**1.0**	**ug/L**	1	16-Jun-2024 00:19
Surr: 1,2-Dichloroethane-d4	*117*			**0**	*81-118*	*%REC*	*1*	*16-Jun-2024 00:19*
Surr: 4-Bromofluorobenzene	*109*			**0**	*85-114*	*%REC*	*1*	*16-Jun-2024 00:19*
Surr: Dibromofluoromethane	*117*			**0**	*80-119*	*%REC*	*1*	*16-Jun-2024 00:19*
Surr: Toluene-d8	*111*			**0**	*89-112*	*%REC*	*1*	*16-Jun-2024 00:19*
SEMIVOLATILES SIM		**Method:SW8270SIM**				Prep:SW3510 / 07-Jun-2024		Analyst: MBG
1,4-Dioxane	**0.14**		**0.010**	**0.0040**	**0.030**	**ug/L**	1	19-Jun-2024 15:49
Surr: 2-Fluorobiphenyl	*78.7*			**0**	*40-140*	*%REC*	*1*	*19-Jun-2024 15:49*
Surr: 4-Terphenyl-d14	*93.2*			**0**	*40-140*	*%REC*	*1*	*19-Jun-2024 15:49*
Surr: Nitrobenzene-d5	*83.8*			**0**	*40-140*	*%REC*	*1*	*19-Jun-2024 15:49*
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	17-Jun-2024 09:30

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
Sample ID: 18CPTMW08DW_060524
Collection Date: 05-Jun-2024 10:10

ANALYTICAL REPORT
WorkOrder:HS24060293
Lab ID:HS24060293-02
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
SEMIVOLATILES SIM		**Method:SW8270SIM**				Prep:SW3510 / 07-Jun-2024		Analyst: MBG
1,4-Dioxane	**0.064**		**0.010**	**0.0040**	**0.030**	**ug/L**	1	19-Jun-2024 16:06
Surr: 2-Fluorobiphenyl	*87.8*			**0**	*40-140*	*%REC*	*1*	*19-Jun-2024 16:06*
Surr: 4-Terphenyl-d14	*91.2*			**0**	*40-140*	*%REC*	*1*	*19-Jun-2024 16:06*
Surr: Nitrobenzene-d5	*96.1*			**0**	*40-140*	*%REC*	*1*	*19-Jun-2024 16:06*
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	17-Jun-2024 09:30

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**
Project: LHAAP Site 18/24 WorkOrder:HS24060293
Sample ID: 18CPTMW08SW_060524 Lab ID:HS24060293-03
Collection Date: 05-Jun-2024 10:55 Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
1,1,1,2-Tetrachloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 00:41
1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 00:41
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.50	1.0	ug/L	1	16-Jun-2024 00:41
1,1,2-Trichloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 00:41
1,1-Dichloroethane	**3.4**		**0.20**	**0.50**	**1.0**	**ug/L**	1	16-Jun-2024 00:41
1,1-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 00:41
1,1-Dichloropropene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 00:41
1,2,3-Trichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	16-Jun-2024 00:41
1,2,3-Trichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	16-Jun-2024 00:41
1,2,4-Trichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	16-Jun-2024 00:41
1,2,4-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 00:41
1,2-Dibromo-3-chloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 00:41
1,2-Dibromoethane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 00:41
1,2-Dichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	16-Jun-2024 00:41
1,2-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 00:41
1,2-Dichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	16-Jun-2024 00:41
1,3,5-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 00:41
1,3-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	16-Jun-2024 00:41
1,3-Dichloropropane	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 00:41
1,4-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	16-Jun-2024 00:41
2,2-Dichloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 00:41
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	16-Jun-2024 00:41
2-Chlorotoluene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 00:41
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	16-Jun-2024 00:41
4-Chlorotoluene	0.50	U	0.40	0.50	1.0	ug/L	1	16-Jun-2024 00:41
4-Isopropyltoluene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 00:41
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	16-Jun-2024 00:41
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	16-Jun-2024 00:41
Benzene	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 00:41
Bromobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	16-Jun-2024 00:41
Bromochloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 00:41
Bromodichloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 00:41
Bromoform	0.50	U	0.40	0.50	1.0	ug/L	1	16-Jun-2024 00:41
Bromomethane	0.50	U	0.40	0.50	1.0	ug/L	1	16-Jun-2024 00:41
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	16-Jun-2024 00:41
Carbon tetrachloride	0.50	U	0.50	0.50	1.0	ug/L	1	16-Jun-2024 00:41
Chlorobenzene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 00:41
Chloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 00:41
Chloroform	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 00:41

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
Sample ID: 18CPTMW08SW_060524
Collection Date: 05-Jun-2024 10:55

ANALYTICAL REPORT
WorkOrder:HS24060293
Lab ID:HS24060293-03
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: TS
Chloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 00:41
cis-1,2-Dichloroethene	**8.9**		**0.20**	**0.50**	**1.0**	**ug/L**	1	16-Jun-2024 00:41
cis-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 00:41
Dibromochloromethane	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 00:41
Dibromomethane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 00:41
Dichlorodifluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 00:41
Ethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 00:41
Hexachlorobutadiene	0.50	U	1.0	0.50	1.0	ug/L	1	16-Jun-2024 00:41
Isopropylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 00:41
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	16-Jun-2024 00:41
Methylene chloride	0.50	U	0.40	0.50	2.0	ug/L	1	16-Jun-2024 00:41
n-Butylbenzene	0.50	U	0.40	0.50	1.0	ug/L	1	16-Jun-2024 00:41
n-Propylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 00:41
Naphthalene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 00:41
o-Xylene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 00:41
sec-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 00:41
Styrene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 00:41
tert-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 00:41
Tetrachloroethene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 00:41
Toluene	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 00:41
trans-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 00:41
trans-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 00:41
Trichloroethene	**30**		**0.20**	**0.50**	**1.0**	**ug/L**	1	16-Jun-2024 00:41
Trichlorofluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 00:41
Vinyl chloride	**0.74**	J	**0.20**	**0.50**	**1.0**	**ug/L**	1	16-Jun-2024 00:41
Surr: 1,2-Dichloroethane-d4	*117*			**0**	*81-118*	*%REC*	*1*	*16-Jun-2024 00:41*
Surr: 4-Bromofluorobenzene	*108*			**0**	*85-114*	*%REC*	*1*	*16-Jun-2024 00:41*
Surr: Dibromofluoromethane	*118*			**0**	*80-119*	*%REC*	*1*	*16-Jun-2024 00:41*
Surr: Toluene-d8	*112*			**0**	*89-112*	*%REC*	*1*	*16-Jun-2024 00:41*
SEMIVOLATILES SIM		**Method:SW8270SIM**				Prep:SW3510 / 07-Jun-2024		Analyst: MBG
1,4-Dioxane	**0.12**		**0.010**	**0.0040**	**0.030**	**ug/L**	1	19-Jun-2024 16:23
Surr: 2-Fluorobiphenyl	*83.6*			**0**	*40-140*	*%REC*	*1*	*19-Jun-2024 16:23*
Surr: 4-Terphenyl-d14	*87.3*			**0**	*40-140*	*%REC*	*1*	*19-Jun-2024 16:23*
Surr: Nitrobenzene-d5	*93.9*			**0**	*40-140*	*%REC*	*1*	*19-Jun-2024 16:23*
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	17-Jun-2024 09:30

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
Sample ID: 18CPTMW03SW_060524
Collection Date: 05-Jun-2024 11:40

ANALYTICAL REPORT
WorkOrder:HS24060293
Lab ID:HS24060293-04
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
1,1,1,2-Tetrachloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 01:04
1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 01:04
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.50	1.0	ug/L	1	16-Jun-2024 01:04
1,1,2-Trichloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 01:04
1,1-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 01:04
1,1-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 01:04
1,1-Dichloropropene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 01:04
1,2,3-Trichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	16-Jun-2024 01:04
1,2,3-Trichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	16-Jun-2024 01:04
1,2,4-Trichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	16-Jun-2024 01:04
1,2,4-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 01:04
1,2-Dibromo-3-chloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 01:04
1,2-Dibromoethane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 01:04
1,2-Dichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	16-Jun-2024 01:04
1,2-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 01:04
1,2-Dichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	16-Jun-2024 01:04
1,3,5-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 01:04
1,3-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	16-Jun-2024 01:04
1,3-Dichloropropane	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 01:04
1,4-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	16-Jun-2024 01:04
2,2-Dichloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 01:04
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	16-Jun-2024 01:04
2-Chlorotoluene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 01:04
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	16-Jun-2024 01:04
4-Chlorotoluene	0.50	U	0.40	0.50	1.0	ug/L	1	16-Jun-2024 01:04
4-Isopropyltoluene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 01:04
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	16-Jun-2024 01:04
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	16-Jun-2024 01:04
Benzene	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 01:04
Bromobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	16-Jun-2024 01:04
Bromochloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 01:04
Bromodichloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 01:04
Bromoform	0.50	U	0.40	0.50	1.0	ug/L	1	16-Jun-2024 01:04
Bromomethane	0.50	U	0.40	0.50	1.0	ug/L	1	16-Jun-2024 01:04
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	16-Jun-2024 01:04
Carbon tetrachloride	0.50	U	0.50	0.50	1.0	ug/L	1	16-Jun-2024 01:04
Chlorobenzene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 01:04
Chloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 01:04
Chloroform	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 01:04

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**
Project: LHAAP Site 18/24 WorkOrder:HS24060293
Sample ID: 18CPTMW03SW_060524 Lab ID:HS24060293-04
Collection Date: 05-Jun-2024 11:40 Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: TS
Chloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 01:04
cis-1,2-Dichloroethene	**14**		**0.20**	**0.50**	**1.0**	**ug/L**	1	16-Jun-2024 01:04
cis-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 01:04
Dibromochloromethane	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 01:04
Dibromomethane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 01:04
Dichlorodifluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 01:04
Ethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 01:04
Hexachlorobutadiene	0.50	U	1.0	0.50	1.0	ug/L	1	16-Jun-2024 01:04
Isopropylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 01:04
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	16-Jun-2024 01:04
Methylene chloride	0.50	U	0.40	0.50	2.0	ug/L	1	16-Jun-2024 01:04
n-Butylbenzene	0.50	U	0.40	0.50	1.0	ug/L	1	16-Jun-2024 01:04
n-Propylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 01:04
Naphthalene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 01:04
o-Xylene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 01:04
sec-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 01:04
Styrene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 01:04
tert-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 01:04
Tetrachloroethene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 01:04
Toluene	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 01:04
trans-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 01:04
trans-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 01:04
Trichloroethene	**7.5**		**0.20**	**0.50**	**1.0**	**ug/L**	1	16-Jun-2024 01:04
Trichlorofluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 01:04
Vinyl chloride	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 01:04
Surr: 1,2-Dichloroethane-d4	*115*			**0**	*81-118*	*%REC*	*1*	*16-Jun-2024 01:04*
Surr: 4-Bromofluorobenzene	*111*			**0**	*85-114*	*%REC*	*1*	*16-Jun-2024 01:04*
Surr: Dibromofluoromethane	*117*			**0**	*80-119*	*%REC*	*1*	*16-Jun-2024 01:04*
Surr: Toluene-d8	*118*	*S*		**0**	*89-112*	*%REC*	*1*	*16-Jun-2024 01:04*
SEMIVOLATILES SIM		**Method:SW8270SIM**				Prep:SW3510 / 07-Jun-2024		Analyst: MBG
1,4-Dioxane	**0.13**		**0.010**	**0.0040**	**0.030**	**ug/L**	1	19-Jun-2024 16:41
Surr: 2-Fluorobiphenyl	*85.3*			**0**	*40-140*	*%REC*	*1*	*19-Jun-2024 16:41*
Surr: 4-Terphenyl-d14	*86.5*			**0**	*40-140*	*%REC*	*1*	*19-Jun-2024 16:41*
Surr: Nitrobenzene-d5	*90.1*			**0**	*40-140*	*%REC*	*1*	*19-Jun-2024 16:41*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
Sample ID: 18CPTMW03SW_060524
Collection Date: 05-Jun-2024 11:40

ANALYTICAL REPORT
WorkOrder:HS24060293
Lab ID:HS24060293-04
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS BY ICPMS BY SW6020A		**Method:SW6020A**				Prep:SW3010A / 13-Jun-2024		Analyst: MSC
Aluminum	**0.0343**		**0.00180**	**0.00500**	**0.0100**	**mg/L**	1	19-Jun-2024 13:38
Antimony	**0.00224**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	19-Jun-2024 13:38
Arsenic	**0.00269**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	19-Jun-2024 13:38
Barium	**0.204**		**0.00190**	**0.00250**	**0.00500**	**mg/L**	1	19-Jun-2024 13:38
Beryllium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	19-Jun-2024 13:38
Cadmium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	19-Jun-2024 13:38
Calcium	**30.7**		**0.0340**	**0.0500**	**0.500**	**mg/L**	1	19-Jun-2024 13:38
Chromium	**0.00629**		**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	19-Jun-2024 13:38
Cobalt	**0.00214**	J	**0.000100**	**0.000500**	**0.00500**	**mg/L**	1	19-Jun-2024 13:38
Copper	0.00250	U	0.00100	0.00250	0.00500	mg/L	1	19-Jun-2024 13:38
Iron	**5.71**		**0.0120**	**0.0500**	**0.200**	**mg/L**	1	19-Jun-2024 13:38
Lead	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	19-Jun-2024 13:38
Magnesium	**14.7**		**0.0100**	**0.0500**	**0.200**	**mg/L**	1	19-Jun-2024 13:38
Manganese	**0.226**		**0.000700**	**0.00250**	**0.00500**	**mg/L**	1	19-Jun-2024 13:38
Nickel	**0.00789**		**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	19-Jun-2024 13:38
Potassium	**214**		**1.80**	**5.00**	**20.0**	**mg/L**	100	19-Jun-2024 14:10
Selenium	0.00250	U	0.00110	0.00250	0.00500	mg/L	1	19-Jun-2024 13:38
Silver	0.000500	U	0.000200	0.000500	0.00500	mg/L	1	19-Jun-2024 13:38
Sodium	**276**		**1.40**	**5.00**	**20.0**	**mg/L**	100	19-Jun-2024 14:10
Thallium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	19-Jun-2024 13:38
Vanadium	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	19-Jun-2024 13:38
Zinc	**0.0177**		**0.00200**	**0.00250**	**0.00500**	**mg/L**	1	19-Jun-2024 13:38
MERCURY BY SW7470A		**Method:SW7470A**				Prep:SW7470A / 18-Jun-2024		Analyst: JS
Mercury	0.000000100	U	0.0000300	0.000000100	0.000200	mg/L	1	18-Jun-2024 14:18
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	17-Jun-2024 09:30

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
Sample ID: 18CPTMW022DW_060524
Collection Date: 05-Jun-2024 12:35

ANALYTICAL REPORT
WorkOrder:HS24060293
Lab ID:HS24060293-05
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
1,1,1,2-Tetrachloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 01:27
1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 01:27
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.50	1.0	ug/L	1	16-Jun-2024 01:27
1,1,2-Trichloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 01:27
1,1-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 01:27
1,1-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 01:27
1,1-Dichloropropene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 01:27
1,2,3-Trichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	16-Jun-2024 01:27
1,2,3-Trichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	16-Jun-2024 01:27
1,2,4-Trichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	16-Jun-2024 01:27
1,2,4-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 01:27
1,2-Dibromo-3-chloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 01:27
1,2-Dibromoethane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 01:27
1,2-Dichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	16-Jun-2024 01:27
1,2-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 01:27
1,2-Dichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	16-Jun-2024 01:27
1,3,5-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 01:27
1,3-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	16-Jun-2024 01:27
1,3-Dichloropropane	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 01:27
1,4-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	16-Jun-2024 01:27
2,2-Dichloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 01:27
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	16-Jun-2024 01:27
2-Chlorotoluene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 01:27
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	16-Jun-2024 01:27
4-Chlorotoluene	0.50	U	0.40	0.50	1.0	ug/L	1	16-Jun-2024 01:27
4-Isopropyltoluene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 01:27
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	16-Jun-2024 01:27
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	16-Jun-2024 01:27
Benzene	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 01:27
Bromobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	16-Jun-2024 01:27
Bromochloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 01:27
Bromodichloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 01:27
Bromoform	0.50	U	0.40	0.50	1.0	ug/L	1	16-Jun-2024 01:27
Bromomethane	0.50	U	0.40	0.50	1.0	ug/L	1	16-Jun-2024 01:27
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	16-Jun-2024 01:27
Carbon tetrachloride	0.50	U	0.50	0.50	1.0	ug/L	1	16-Jun-2024 01:27
Chlorobenzene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 01:27
Chloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 01:27
Chloroform	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 01:27

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
Sample ID: 18CPTMW022DW_060524
Collection Date: 05-Jun-2024 12:35

ANALYTICAL REPORT
WorkOrder:HS24060293
Lab ID:HS24060293-05
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: TS
Chloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 01:27
cis-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 01:27
cis-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 01:27
Dibromochloromethane	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 01:27
Dibromomethane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 01:27
Dichlorodifluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 01:27
Ethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 01:27
Hexachlorobutadiene	0.50	U	1.0	0.50	1.0	ug/L	1	16-Jun-2024 01:27
Isopropylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 01:27
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	16-Jun-2024 01:27
Methylene chloride	0.50	U	0.40	0.50	2.0	ug/L	1	16-Jun-2024 01:27
n-Butylbenzene	0.50	U	0.40	0.50	1.0	ug/L	1	16-Jun-2024 01:27
n-Propylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 01:27
Naphthalene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 01:27
o-Xylene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 01:27
sec-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 01:27
Styrene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 01:27
tert-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 01:27
Tetrachloroethene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 01:27
Toluene	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 01:27
trans-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 01:27
trans-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 01:27
Trichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 01:27
Trichlorofluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 01:27
Vinyl chloride	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 01:27
Surr: 1,2-Dichloroethane-d4	*116*			**0**	*81-118*	*%REC*	*1*	*16-Jun-2024 01:27*
Surr: 4-Bromofluorobenzene	*108*			**0**	*85-114*	*%REC*	*1*	*16-Jun-2024 01:27*
Surr: Dibromofluoromethane	*118*			**0**	*80-119*	*%REC*	*1*	*16-Jun-2024 01:27*
Surr: Toluene-d8	*112*			**0**	*89-112*	*%REC*	*1*	*16-Jun-2024 01:27*
SEMIVOLATILES SIM		**Method:SW8270SIM**				Prep:SW3510 / 07-Jun-2024		Analyst: MBG
1,4-Dioxane	0.0040	U	0.010	0.0040	0.030	ug/L	1	19-Jun-2024 16:58
Surr: 2-Fluorobiphenyl	*86.1*			**0**	*40-140*	*%REC*	*1*	*19-Jun-2024 16:58*
Surr: 4-Terphenyl-d14	*94.0*			**0**	*40-140*	*%REC*	*1*	*19-Jun-2024 16:58*
Surr: Nitrobenzene-d5	*90.5*			**0**	*40-140*	*%REC*	*1*	*19-Jun-2024 16:58*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
Sample ID: 18CPTMW022DW_060524
Collection Date: 05-Jun-2024 12:35

ANALYTICAL REPORT
WorkOrder:HS24060293
Lab ID:HS24060293-05
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS BY ICPMS BY SW6020A		**Method:SW6020A**				Prep:SW3010A / 13-Jun-2024		Analyst: MSC
Aluminum	**0.0506**		**0.00180**	**0.00500**	**0.0100**	**mg/L**	1	19-Jun-2024 13:40
Antimony	**0.000702**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	19-Jun-2024 13:40
Arsenic	**0.00483**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	19-Jun-2024 13:40
Barium	**0.111**		**0.00190**	**0.00250**	**0.00500**	**mg/L**	1	19-Jun-2024 13:40
Beryllium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	19-Jun-2024 13:40
Cadmium	**0.000446**	J	**0.000200**	**0.000500**	**0.00200**	**mg/L**	1	19-Jun-2024 13:40
Calcium	**12.5**		**0.0340**	**0.0500**	**0.500**	**mg/L**	1	19-Jun-2024 13:40
Chromium	**0.000921**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	19-Jun-2024 13:40
Cobalt	**0.000286**	J	**0.000100**	**0.000500**	**0.00500**	**mg/L**	1	19-Jun-2024 13:40
Copper	0.00250	U	0.00100	0.00250	0.00500	mg/L	1	19-Jun-2024 13:40
Iron	**3.37**		**0.0120**	**0.0500**	**0.200**	**mg/L**	1	19-Jun-2024 13:40
Lead	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	19-Jun-2024 13:40
Magnesium	**6.67**		**0.0100**	**0.0500**	**0.200**	**mg/L**	1	19-Jun-2024 13:40
Manganese	**0.0656**		**0.000700**	**0.00250**	**0.00500**	**mg/L**	1	19-Jun-2024 13:40
Nickel	**0.00183**	J	**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	19-Jun-2024 13:40
Potassium	**2.67**		**0.0180**	**0.0500**	**0.200**	**mg/L**	1	19-Jun-2024 13:40
Selenium	0.00250	U	0.00110	0.00250	0.00500	mg/L	1	19-Jun-2024 13:40
Silver	0.000500	U	0.000200	0.000500	0.00500	mg/L	1	19-Jun-2024 13:40
Sodium	**307**		**1.40**	**5.00**	**20.0**	**mg/L**	100	19-Jun-2024 14:18
Thallium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	19-Jun-2024 13:40
Vanadium	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	19-Jun-2024 13:40
Zinc	**0.00667**		**0.00200**	**0.00250**	**0.00500**	**mg/L**	1	19-Jun-2024 13:40
MERCURY BY SW7470A		**Method:SW7470A**				Prep:SW7470A / 18-Jun-2024		Analyst: JS
Mercury	0.000000100	U	0.0000300	0.000000100	0.000200	mg/L	1	18-Jun-2024 14:19
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	17-Jun-2024 09:30

Note: See Qualifiers Page for a list of qualifiers and their explanation.

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ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**
Project: LHAAP Site 18/24 WorkOrder:HS24060293
Sample ID: 18CPTMW022R_060524 Lab ID:HS24060293-06
Collection Date: 05-Jun-2024 13:20 Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
1,1,1,2-Tetrachloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 01:50
1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 01:50
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.50	1.0	ug/L	1	16-Jun-2024 01:50
1,1,2-Trichloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 01:50
1,1-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 01:50
1,1-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 01:50
1,1-Dichloropropene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 01:50
1,2,3-Trichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	16-Jun-2024 01:50
1,2,3-Trichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	16-Jun-2024 01:50
1,2,4-Trichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	16-Jun-2024 01:50
1,2,4-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 01:50
1,2-Dibromo-3-chloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 01:50
1,2-Dibromoethane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 01:50
1,2-Dichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	16-Jun-2024 01:50
1,2-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 01:50
1,2-Dichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	16-Jun-2024 01:50
1,3,5-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 01:50
1,3-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	16-Jun-2024 01:50
1,3-Dichloropropane	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 01:50
1,4-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	16-Jun-2024 01:50
2,2-Dichloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 01:50
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	16-Jun-2024 01:50
2-Chlorotoluene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 01:50
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	16-Jun-2024 01:50
4-Chlorotoluene	0.50	U	0.40	0.50	1.0	ug/L	1	16-Jun-2024 01:50
4-Isopropyltoluene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 01:50
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	16-Jun-2024 01:50
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	16-Jun-2024 01:50
Benzene	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 01:50
Bromobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	16-Jun-2024 01:50
Bromochloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 01:50
Bromodichloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 01:50
Bromoform	0.50	U	0.40	0.50	1.0	ug/L	1	16-Jun-2024 01:50
Bromomethane	0.50	U	0.40	0.50	1.0	ug/L	1	16-Jun-2024 01:50
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	16-Jun-2024 01:50
Carbon tetrachloride	0.50	U	0.50	0.50	1.0	ug/L	1	16-Jun-2024 01:50
Chlorobenzene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 01:50
Chloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 01:50
Chloroform	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 01:50

Note: See Qualifiers Page for a list of qualifiers and their explanation.

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ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**
Project: LHAAP Site 18/24 WorkOrder:HS24060293
Sample ID: 18CPTMW022R_060524 Lab ID:HS24060293-06
Collection Date: 05-Jun-2024 13:20 Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: TS
Chloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 01:50
cis-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 01:50
cis-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 01:50
Dibromochloromethane	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 01:50
Dibromomethane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 01:50
Dichlorodifluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 01:50
Ethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 01:50
Hexachlorobutadiene	0.50	U	1.0	0.50	1.0	ug/L	1	16-Jun-2024 01:50
Isopropylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 01:50
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	16-Jun-2024 01:50
Methylene chloride	0.50	U	0.40	0.50	2.0	ug/L	1	16-Jun-2024 01:50
n-Butylbenzene	0.50	U	0.40	0.50	1.0	ug/L	1	16-Jun-2024 01:50
n-Propylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 01:50
Naphthalene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 01:50
o-Xylene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 01:50
sec-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 01:50
Styrene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 01:50
tert-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 01:50
Tetrachloroethene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 01:50
Toluene	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 01:50
trans-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 01:50
trans-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 01:50
Trichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 01:50
Trichlorofluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 01:50
Vinyl chloride	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 01:50
Surr: 1,2-Dichloroethane-d4	*124*	*S*		**0**	*81-118*	*%REC*	*1*	*16-Jun-2024 01:50*
Surr: 4-Bromofluorobenzene	*115*	*S*		**0**	*85-114*	*%REC*	*1*	*16-Jun-2024 01:50*
Surr: Dibromofluoromethane	*124*	*S*		**0**	*80-119*	*%REC*	*1*	*16-Jun-2024 01:50*
Surr: Toluene-d8	*121*	*S*		**0**	*89-112*	*%REC*	*1*	*16-Jun-2024 01:50*
SEMIVOLATILES SIM		**Method:SW8270SIM**				Prep:SW3510 / 07-Jun-2024		Analyst: MBG
1,4-Dioxane	0.0040	U	0.010	0.0040	0.030	ug/L	1	19-Jun-2024 17:16
Surr: 2-Fluorobiphenyl	*84.7*			**0**	*40-140*	*%REC*	*1*	*19-Jun-2024 17:16*
Surr: 4-Terphenyl-d14	*97.3*			**0**	*40-140*	*%REC*	*1*	*19-Jun-2024 17:16*
Surr: Nitrobenzene-d5	*98.6*			**0**	*40-140*	*%REC*	*1*	*19-Jun-2024 17:16*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

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ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
Sample ID: 18CPTMW022R_060524
Collection Date: 05-Jun-2024 13:20

ANALYTICAL REPORT
WorkOrder:HS24060293
Lab ID:HS24060293-06
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS BY ICPMS BY SW6020A		**Method:SW6020A**				Prep:SW3010A / 13-Jun-2024		Analyst: MSC
Aluminum	**0.187**		**0.00180**	**0.00500**	**0.0100**	**mg/L**	1	19-Jun-2024 13:42
Antimony	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	19-Jun-2024 13:42
Arsenic	**0.000576**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	19-Jun-2024 13:42
Barium	**0.0249**		**0.00190**	**0.00250**	**0.00500**	**mg/L**	1	19-Jun-2024 13:42
Beryllium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	19-Jun-2024 13:42
Cadmium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	19-Jun-2024 13:42
Calcium	**0.546**		**0.0340**	**0.0500**	**0.500**	**mg/L**	1	19-Jun-2024 13:42
Chromium	**0.000609**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	19-Jun-2024 13:42
Cobalt	**0.00193**	J	**0.000100**	**0.000500**	**0.00500**	**mg/L**	1	19-Jun-2024 13:42
Copper	**0.00118**	J	**0.00100**	**0.00250**	**0.00500**	**mg/L**	1	19-Jun-2024 13:42
Iron	**0.241**		**0.0120**	**0.0500**	**0.200**	**mg/L**	1	19-Jun-2024 13:42
Lead	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	19-Jun-2024 13:42
Magnesium	**0.378**		**0.0100**	**0.0500**	**0.200**	**mg/L**	1	19-Jun-2024 13:42
Manganese	**0.0212**		**0.000700**	**0.00250**	**0.00500**	**mg/L**	1	19-Jun-2024 13:42
Nickel	**0.00140**	J	**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	19-Jun-2024 13:42
Potassium	**0.123**	J	**0.0180**	**0.0500**	**0.200**	**mg/L**	1	19-Jun-2024 13:42
Selenium	0.00250	U	0.00110	0.00250	0.00500	mg/L	1	19-Jun-2024 13:42
Silver	0.000500	U	0.000200	0.000500	0.00500	mg/L	1	19-Jun-2024 13:42
Sodium	**15.9**		**0.0140**	**0.0500**	**0.200**	**mg/L**	1	19-Jun-2024 13:42
Thallium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	19-Jun-2024 13:42
Vanadium	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	19-Jun-2024 13:42
Zinc	**0.0109**		**0.00200**	**0.00250**	**0.00500**	**mg/L**	1	19-Jun-2024 13:42
MERCURY BY SW7470A		**Method:SW7470A**				Prep:SW7470A / 18-Jun-2024		Analyst: JS
Mercury	0.000000100	U	0.0000300	0.000000100	0.000200	mg/L	1	18-Jun-2024 14:25
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	17-Jun-2024 09:30

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
Sample ID: CG-052424-73
Collection Date: 05-Jun-2024 00:00

ANALYTICAL REPORT
WorkOrder:HS24060293
Lab ID:HS24060293-07
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
1,1,1,2-Tetrachloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	15-Jun-2024 20:53
1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	15-Jun-2024 20:53
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.50	1.0	ug/L	1	15-Jun-2024 20:53
1,1,2-Trichloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	15-Jun-2024 20:53
1,1-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	15-Jun-2024 20:53
1,1-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	15-Jun-2024 20:53
1,1-Dichloropropene	0.50	U	0.30	0.50	1.0	ug/L	1	15-Jun-2024 20:53
1,2,3-Trichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	15-Jun-2024 20:53
1,2,3-Trichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	15-Jun-2024 20:53
1,2,4-Trichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	15-Jun-2024 20:53
1,2,4-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	15-Jun-2024 20:53
1,2-Dibromo-3-chloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	15-Jun-2024 20:53
1,2-Dibromoethane	0.50	U	0.20	0.50	1.0	ug/L	1	15-Jun-2024 20:53
1,2-Dichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	15-Jun-2024 20:53
1,2-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	15-Jun-2024 20:53
1,2-Dichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	15-Jun-2024 20:53
1,3,5-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	15-Jun-2024 20:53
1,3-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	15-Jun-2024 20:53
1,3-Dichloropropane	0.50	U	0.30	0.50	1.0	ug/L	1	15-Jun-2024 20:53
1,4-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	15-Jun-2024 20:53
2,2-Dichloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	15-Jun-2024 20:53
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	15-Jun-2024 20:53
2-Chlorotoluene	0.50	U	0.30	0.50	1.0	ug/L	1	15-Jun-2024 20:53
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	15-Jun-2024 20:53
4-Chlorotoluene	0.50	U	0.40	0.50	1.0	ug/L	1	15-Jun-2024 20:53
4-Isopropyltoluene	0.50	U	0.30	0.50	1.0	ug/L	1	15-Jun-2024 20:53
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	15-Jun-2024 20:53
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	15-Jun-2024 20:53
Benzene	0.50	U	0.20	0.50	1.0	ug/L	1	15-Jun-2024 20:53
Bromobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	15-Jun-2024 20:53
Bromochloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	15-Jun-2024 20:53
Bromodichloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	15-Jun-2024 20:53
Bromoform	0.50	U	0.40	0.50	1.0	ug/L	1	15-Jun-2024 20:53
Bromomethane	0.50	U	0.40	0.50	1.0	ug/L	1	15-Jun-2024 20:53
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	15-Jun-2024 20:53
Carbon tetrachloride	0.50	U	0.50	0.50	1.0	ug/L	1	15-Jun-2024 20:53
Chlorobenzene	0.50	U	0.30	0.50	1.0	ug/L	1	15-Jun-2024 20:53
Chloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	15-Jun-2024 20:53
Chloroform	0.50	U	0.20	0.50	1.0	ug/L	1	15-Jun-2024 20:53

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
Sample ID: CG-052424-73
Collection Date: 05-Jun-2024 00:00

ANALYTICAL REPORT
WorkOrder:HS24060293
Lab ID:HS24060293-07
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
Chloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	15-Jun-2024 20:53
cis-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	15-Jun-2024 20:53
cis-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	15-Jun-2024 20:53
Dibromochloromethane	0.50	U	0.30	0.50	1.0	ug/L	1	15-Jun-2024 20:53
Dibromomethane	0.50	U	0.20	0.50	1.0	ug/L	1	15-Jun-2024 20:53
Dichlorodifluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	15-Jun-2024 20:53
Ethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	15-Jun-2024 20:53
Hexachlorobutadiene	0.50	U	1.0	0.50	1.0	ug/L	1	15-Jun-2024 20:53
Isopropylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	15-Jun-2024 20:53
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	15-Jun-2024 20:53
Methylene chloride	0.50	U	0.40	0.50	2.0	ug/L	1	15-Jun-2024 20:53
n-Butylbenzene	0.50	U	0.40	0.50	1.0	ug/L	1	15-Jun-2024 20:53
n-Propylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	15-Jun-2024 20:53
Naphthalene	0.50	U	0.30	0.50	1.0	ug/L	1	15-Jun-2024 20:53
o-Xylene	0.50	U	0.30	0.50	1.0	ug/L	1	15-Jun-2024 20:53
sec-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	15-Jun-2024 20:53
Styrene	0.50	U	0.30	0.50	1.0	ug/L	1	15-Jun-2024 20:53
tert-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	15-Jun-2024 20:53
Tetrachloroethene	0.50	U	0.30	0.50	1.0	ug/L	1	15-Jun-2024 20:53
Toluene	0.50	U	0.20	0.50	1.0	ug/L	1	15-Jun-2024 20:53
trans-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	15-Jun-2024 20:53
trans-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	15-Jun-2024 20:53
Trichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	15-Jun-2024 20:53
Trichlorofluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	15-Jun-2024 20:53
Vinyl chloride	0.50	U	0.20	0.50	1.0	ug/L	1	15-Jun-2024 20:53
Surr: 1,2-Dichloroethane-d4	*117*			**0**	*81-118*	*%REC*	*1*	*15-Jun-2024 20:53*
Surr: 4-Bromofluorobenzene	*106*			**0**	*85-114*	*%REC*	*1*	*15-Jun-2024 20:53*
Surr: Dibromofluoromethane	*117*			**0**	*80-119*	*%REC*	*1*	*15-Jun-2024 20:53*
Surr: Toluene-d8	*112*			**0**	*89-112*	*%REC*	*1*	*15-Jun-2024 20:53*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

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Weight / Prep Log

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060293

Batch ID: 213147 **Start Date:** 07 Jun 2024 08:18 **End Date:** 07 Jun 2024 08:18
Method: SV AQ SEP FUN EXTRACT-LOWLEV - 3510C **Prep Code:** 3510_B_SIM

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24060293-01	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS24060293-02	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS24060293-03	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS24060293-04	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS24060293-05	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS24060293-06	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat

Batch ID: 213517 **Start Date:** 13 Jun 2024 16:00 **End Date:** 13 Jun 2024 16:00
Method: WATER - SW3010A **Prep Code:** 3010A

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24060293-04		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2
HS24060293-05		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2
HS24060293-06		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2

Batch ID: 213707 **Start Date:** 18 Jun 2024 09:00 **End Date:** 18 Jun 2024 09:00
Method: MERCURY PREP BY 7470A- WATER **Prep Code:** HG_WPR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24060293-04		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2
HS24060293-05		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2
HS24060293-06		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060293

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 213147 (0)	**Test Name :** SEMIVOLATILES SIM				**Matrix:** Groundwater	
HS24060293-01	MW5_060524	05 Jun 2024 09:25		07 Jun 2024 08:18	19 Jun 2024 15:49	1
HS24060293-02	18CPTMW08DW_060524	05 Jun 2024 10:10		07 Jun 2024 08:18	19 Jun 2024 16:06	1
HS24060293-03	18CPTMW08SW_060524	05 Jun 2024 10:55		07 Jun 2024 08:18	19 Jun 2024 16:23	1
HS24060293-04	18CPTMW03SW_060524	05 Jun 2024 11:40		07 Jun 2024 08:18	19 Jun 2024 16:41	1
HS24060293-05	18CPTMW022DW_060524	05 Jun 2024 12:35		07 Jun 2024 08:18	19 Jun 2024 16:58	1
HS24060293-06	18CPTMW022R_060524	05 Jun 2024 13:20		07 Jun 2024 08:18	19 Jun 2024 17:16	1
Batch ID: 213517 (0)	**Test Name :** METALS BY ICPMS BY SW6020A				**Matrix:** Groundwater	
HS24060293-04	18CPTMW03SW_060524	05 Jun 2024 11:40		13 Jun 2024 16:00	19 Jun 2024 14:10	100
HS24060293-04	18CPTMW03SW_060524	05 Jun 2024 11:40		13 Jun 2024 16:00	19 Jun 2024 13:38	1
HS24060293-05	18CPTMW022DW_060524	05 Jun 2024 12:35		13 Jun 2024 16:00	19 Jun 2024 14:18	100
HS24060293-05	18CPTMW022DW_060524	05 Jun 2024 12:35		13 Jun 2024 16:00	19 Jun 2024 13:40	1
HS24060293-06	18CPTMW022R_060524	05 Jun 2024 13:20		13 Jun 2024 16:00	19 Jun 2024 13:42	1
Batch ID: 213707 (0)	**Test Name :** MERCURY BY SW7470A				**Matrix:** Groundwater	
HS24060293-04	18CPTMW03SW_060524	05 Jun 2024 11:40		18 Jun 2024 09:00	18 Jun 2024 14:18	1
HS24060293-05	18CPTMW022DW_060524	05 Jun 2024 12:35		18 Jun 2024 09:00	18 Jun 2024 14:19	1
HS24060293-06	18CPTMW022R_060524	05 Jun 2024 13:20		18 Jun 2024 09:00	18 Jun 2024 14:25	1
Batch ID: R469553 (0)	**Test Name :** SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)				**Matrix:** Groundwater	
HS24060293-01	MW5_060524	05 Jun 2024 09:25			17 Jun 2024 09:30	1
HS24060293-02	18CPTMW08DW_060524	05 Jun 2024 10:10			17 Jun 2024 09:30	1
HS24060293-03	18CPTMW08SW_060524	05 Jun 2024 10:55			17 Jun 2024 09:30	1
HS24060293-04	18CPTMW03SW_060524	05 Jun 2024 11:40			17 Jun 2024 09:30	1
HS24060293-05	18CPTMW022DW_060524	05 Jun 2024 12:35			17 Jun 2024 09:30	1
HS24060293-06	18CPTMW022R_060524	05 Jun 2024 13:20			17 Jun 2024 09:30	1
Batch ID: R469580 (0)	**Test Name :** VOLATILES ORGANICS BY METHOD 8260C				**Matrix:** Water	
HS24060293-07	CG-052424-73	05 Jun 2024 00:00			15 Jun 2024 20:53	1
Batch ID: R469580 (0)	**Test Name :** VOLATILES ORGANICS BY METHOD 8260C				**Matrix:** Groundwater	
HS24060293-01	MW5_060524	05 Jun 2024 09:25			16 Jun 2024 00:19	1
HS24060293-03	18CPTMW08SW_060524	05 Jun 2024 10:55			16 Jun 2024 00:41	1
HS24060293-04	18CPTMW03SW_060524	05 Jun 2024 11:40			16 Jun 2024 01:04	1
HS24060293-05	18CPTMW022DW_060524	05 Jun 2024 12:35			16 Jun 2024 01:27	1
HS24060293-06	18CPTMW022R_060524	05 Jun 2024 13:20			16 Jun 2024 01:50	1

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ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060293

QC BATCH REPORT

Batch ID: 213517 (0) **Instrument: ICPMS05** **Method: METALS BY ICPMS BY SW6020A**

MBLK Sample ID: **MBLK-213517** Units: **mg/L** Analysis Date: **19-Jun-2024 12:37**
Client ID: Run ID: **ICPMS05_469846** SeqNo: **8085603** PrepDate: **13-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.00500	0.0100								U
Antimony	0.00125	0.00500								U
Arsenic	0.00125	0.00500								U
Barium	0.00250	0.00500								U
Beryllium	0.000500	0.00200								U
Cadmium	0.000500	0.00200								U
Calcium	0.0500	0.500								U
Chromium	0.00125	0.00500								U
Cobalt	0.000500	0.00500								U
Copper	0.00250	0.00500								U
Iron	0.0500	0.200								U
Lead	0.00125	0.00500								U
Magnesium	0.0500	0.200								U
Manganese	0.00250	0.00500								U
Nickel	0.00125	0.00500								U
Potassium	0.0500	0.200								U
Selenium	0.00250	0.00500								U
Silver	0.000500	0.00500								U
Sodium	0.0500	0.200								U
Thallium	0.000500	0.00200								U
Vanadium	0.00125	0.00500								U
Zinc	0.00250	0.00500								U

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060293

QC BATCH REPORT

Batch ID: 213517 (0) **Instrument: ICPMS05** **Method: METALS BY ICPMS BY SW6020A**

LCS Sample ID: **LCS-213517** Units: **mg/L** Analysis Date: **19-Jun-2024 12:42**
Client ID: Run ID: **ICPMS05_469846** SeqNo: **8085604** PrepDate: **13-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1079	0.0100	0.1	0	108	84 - 117				
Antimony	0.04461	0.00500	0.05	0	89.2	85 - 117				
Arsenic	0.04507	0.00500	0.05	0	90.1	84 - 116				
Barium	0.04712	0.00500	0.05	0	94.2	86 - 114				
Beryllium	0.04443	0.00200	0.05	0	88.9	83 - 121				
Cadmium	0.04644	0.00200	0.05	0	92.9	87 - 115				
Calcium	4.72	0.500	5	0	94.4	87 - 118				
Chromium	0.0466	0.00500	0.05	0	93.2	85 - 116				
Cobalt	0.04667	0.00500	0.05	0	93.3	86 - 115				
Copper	0.04738	0.00500	0.05	0	94.8	85 - 118				
Iron	4.766	0.200	5	0	95.3	87 - 118				
Lead	0.04671	0.00500	0.05	0	93.4	88 - 115				
Magnesium	4.542	0.200	5	0	90.8	83 - 118				
Manganese	0.0499	0.00500	0.05	0	99.8	87 - 115				
Nickel	0.04697	0.00500	0.05	0	93.9	85 - 117				
Potassium	4.67	0.200	5	0	93.4	87 - 115				
Selenium	0.04638	0.00500	0.05	0	92.8	80 - 120				
Silver	0.0461	0.00500	0.05	0	92.2	85 - 116				
Sodium	4.637	0.200	5	0	92.7	85 - 117				
Thallium	0.04622	0.00200	0.05	0	92.4	82 - 116				
Vanadium	0.04553	0.00500	0.05	0	91.1	86 - 115				
Zinc	0.0476	0.00500	0.05	0	95.2	83 - 119				

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060293

QC BATCH REPORT

Batch ID: 213517 (0) **Instrument: ICPMS05** **Method: METALS BY ICPMS BY SW6020A**

MS Sample ID: **HS24060434-09MS** Units: **mg/L** Analysis Date: **19-Jun-2024 13:32**
Client ID: Run ID: **ICPMS05_469846** SeqNo: **8085856** PrepDate: **13-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1058	0.0100	0.1	0.01964	86.2	84 - 117				
Antimony	0.04446	0.00500	0.05	0.001111	86.7	85 - 117				
Arsenic	0.0442	0.00500	0.05	0.000439	87.5	84 - 116				
Barium	0.3497	0.00500	0.05	0.3155	68.3	86 - 114				SO
Beryllium	0.04265	0.00200	0.05	0.000106	85.1	83 - 121				
Cadmium	0.04459	0.00200	0.05	0.000269	88.6	87 - 115				
Calcium	21.37	0.500	5	17.69	73.7	87 - 118				S
Chromium	0.1556	0.00500	0.05	0.1162	78.9	85 - 116				S
Cobalt	0.04545	0.00500	0.05	0.001942	87.0	86 - 115				
Copper	0.04916	0.00500	0.05	0.005888	86.5	85 - 118				
Iron	5.905	0.200	5	1.17	94.7	87 - 118				
Lead	0.04454	0.00500	0.05	0.000123	88.8	88 - 115				
Magnesium	18.23	0.200	5	14.2	80.5	83 - 118				S
Manganese	0.168	0.00500	0.05	0.1291	77.8	87 - 115				S
Nickel	0.1734	0.00500	0.05	0.1368	73.2	85 - 117				S
Potassium	7.157	0.200	5	2.278	97.6	87 - 115				
Selenium	0.04378	0.00500	0.05	0.00148	84.6	80 - 120				
Silver	0.04283	0.00500	0.05	0.000227	85.2	85 - 116				
Sodium	71.42	0.200	5	69.48	38.7	85 - 117				SO
Thallium	0.04408	0.00200	0.05	0.00012	87.9	82 - 116				
Vanadium	0.04081	0.00500	0.05	-0.002788	87.2	86 - 115				
Zinc	0.05392	0.00500	0.05	0.01153	84.8	83 - 119				

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060293

QC BATCH REPORT

Batch ID: 213517 (0) **Instrument: ICPMS05** **Method: METALS BY ICPMS BY SW6020A**

MSD Sample ID: **HS24060434-09MSD** Units: **mg/L** Analysis Date: **19-Jun-2024 13:34**
Client ID: Run ID: **ICPMS05_469846** SeqNo: **8085857** PrepDate: **13-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1067	0.0100	0.1	0.01964	87.0	84 - 117	0.1058	0.773	20	
Antimony	0.04533	0.00500	0.05	0.001111	88.4	85 - 117	0.04446	1.94	20	
Arsenic	0.04442	0.00500	0.05	0.000439	88.0	84 - 116	0.0442	0.497	20	
Barium	0.3581	0.00500	0.05	0.3155	85.2	86 - 114	0.3497	2.38	20	SO
Beryllium	0.04415	0.00200	0.05	0.000106	88.1	83 - 121	0.04265	3.45	20	
Cadmium	0.0453	0.00200	0.05	0.000269	90.1	87 - 115	0.04459	1.57	20	
Calcium	22.03	0.500	5	17.69	86.9	87 - 118	21.37	3.05	20	S
Chromium	0.1582	0.00500	0.05	0.1162	84.1	85 - 116	0.1556	1.66	20	S
Cobalt	0.04683	0.00500	0.05	0.001942	89.8	86 - 115	0.04545	2.99	20	
Copper	0.05017	0.00500	0.05	0.005888	88.6	85 - 118	0.04916	2.03	20	
Iron	6.056	0.200	5	1.17	97.7	87 - 118	5.905	2.52	20	
Lead	0.04574	0.00500	0.05	0.000123	91.2	88 - 115	0.04454	2.66	20	
Magnesium	18.64	0.200	5	14.2	88.7	83 - 118	18.23	2.23	20	
Manganese	0.1731	0.00500	0.05	0.1291	88.0	87 - 115	0.168	3.02	20	
Nickel	0.1777	0.00500	0.05	0.1368	81.8	85 - 117	0.1734	2.45	20	S
Potassium	7.272	0.200	5	2.278	99.9	87 - 115	7.157	1.59	20	
Selenium	0.04376	0.00500	0.05	0.00148	84.6	80 - 120	0.04378	0.0228	20	
Silver	0.04315	0.00500	0.05	0.000227	85.8	85 - 116	0.04283	0.754	20	
Sodium	73.98	0.200	5	69.48	90.0	85 - 117	71.42	3.53	20	O
Thallium	0.04557	0.00200	0.05	0.00012	90.9	82 - 116	0.04408	3.31	20	
Vanadium	0.04025	0.00500	0.05	-0.002788	86.1	86 - 115	0.04081	1.38	20	
Zinc	0.05391	0.00500	0.05	0.01153	84.8	83 - 119	0.05392	0.0223	20	

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060293

QC BATCH REPORT

Batch ID: 213517 (0) **Instrument: ICPMS05** **Method: METALS BY ICPMS BY SW6020A**

PDS Sample ID: **HS24060434-09PDS** Units: **mg/L** Analysis Date: **19-Jun-2024 13:36**
Client ID: Run ID: **ICPMS05_469846** SeqNo: **8085858** PrepDate: **13-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1054	0.0100	0.1	0.01964	85.7	80 - 120				
Antimony	0.08953	0.00500	0.1	0.001111	88.4	80 - 120				
Arsenic	0.09139	0.00500	0.1	0.000439	91.0	80 - 120				
Barium	0.4203	0.00500	0.1	0.3155	105	80 - 120				
Beryllium	0.08421	0.00200	0.1	0.000106	84.1	80 - 120				
Cadmium	0.09144	0.00200	0.1	0.000269	91.2	80 - 120				
Calcium	26.8	0.500	10	17.69	91.1	80 - 120				
Chromium	0.2081	0.00500	0.1	0.1162	91.9	80 - 120				
Cobalt	0.09219	0.00500	0.1	0.001942	90.2	80 - 120				
Copper	0.09622	0.00500	0.1	0.005888	90.3	80 - 120				
Iron	11.25	0.200	10	1.17	101	80 - 120				
Lead	0.09422	0.00500	0.1	0.000123	94.1	80 - 120				
Magnesium	23.87	0.200	10	14.2	96.6	80 - 120				
Manganese	0.2236	0.00500	0.1	0.1291	94.5	80 - 120				
Nickel	0.2273	0.00500	0.1	0.1368	90.5	80 - 120				
Potassium	12.27	0.200	10	2.278	99.9	80 - 120				
Selenium	0.09181	0.00500	0.1	0.00148	90.3	80 - 120				
Silver	0.09016	0.00500	0.1	0.000227	89.9	80 - 120				
Sodium	81.56	0.200	10	69.48	121	80 - 120				SO
Thallium	0.09376	0.00200	0.1	0.00012	93.6	80 - 120				
Vanadium	0.08561	0.00500	0.1	-0.002788	88.4	80 - 120				
Zinc	0.1015	0.00500	0.1	0.01153	90.0	80 - 120				

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060293

QC BATCH REPORT

Batch ID: 213517 (0) **Instrument: ICPMS05** **Method: METALS BY ICPMS BY SW6020A**

SD Sample ID: **HS24060434-09SD** Units: **mg/L** Analysis Date: **19-Jun-2024 13:30**
Client ID: Run ID: **ICPMS05_469846** SeqNo: **8085855** PrepDate: **13-Jun-2024** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Aluminum	0.01336	0.0500					0.01964	0	10	J
Antimony	0.002317	0.0250					0.001111	0	10	J
Arsenic	0.00625	0.0250					0.000439	0	10	U
Barium	0.3108	0.0250					0.3155	1.49	10	
Beryllium	0.00250	0.0100					0.000106	0	10	U
Cadmium	0.00250	0.0100					0.000269	0	10	U
Calcium	17.73	2.50					17.69	0.254	10	
Chromium	0.1144	0.0250					0.1162	1.59	10	
Cobalt	0.002001	0.0250					0.001942	0	10	J
Copper	0.006162	0.0250					0.005888	0	10	J
Iron	1.068	1.00					1.17	8.68	10	
Lead	0.00625	0.0250					0.000123	0	10	U
Magnesium	13.27	1.00					14.2	6.59	10	
Manganese	0.1306	0.0250					0.1291	1.14	10	
Nickel	0.1412	0.0250					0.1368	3.18	10	
Potassium	2.35	1.00					2.278	3.13	10	
Selenium	0.0125	0.0250					0.00148	0	10	U
Silver	0.00250	0.0250					0.000227	0	10	U
Sodium	72.23	1.00					69.48	3.95	10	
Thallium	0.00250	0.0100					0.00012	0	10	U
Vanadium	0.00625	0.0250					-0.002788	0	10	U
Zinc	0.01233	0.0250					0.01153	0	10	J

The following samples were analyzed in this batch: HS24060293-04 HS24060293-05 HS24060293-06

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ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060293

QC BATCH REPORT

Batch ID: 213707 (0) **Instrument: HG04** **Method: MERCURY BY SW7470A**

MBLK Sample ID: **MBLK-213707** Units: **mg/L** Analysis Date: **18-Jun-2024 14:14**
Client ID: Run ID: **HG04_469750** SeqNo: **8083423** PrepDate: **18-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.000000100	0.000200								U

LCS Sample ID: **LCS-213707** Units: **mg/L** Analysis Date: **18-Jun-2024 14:16**
Client ID: Run ID: **HG04_469750** SeqNo: **8083424** PrepDate: **18-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00421	0.000200	0.005	0	84.2	82 - 119				

MS Sample ID: **HS24060434-09MS** Units: **mg/L** Analysis Date: **18-Jun-2024 14:35**
Client ID: Run ID: **HG04_469750** SeqNo: **8083435** PrepDate: **18-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00441	0.000200	0.005	-0.00001100	88.4	82 - 119				

MSD Sample ID: **HS24060434-09MSD** Units: **mg/L** Analysis Date: **18-Jun-2024 14:37**
Client ID: Run ID: **HG04_469750** SeqNo: **8083436** PrepDate: **18-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00438	0.000200	0.005	-0.00001100	87.8	82 - 119	0.004410	0.683	20	

The following samples were analyzed in this batch: HS24060293-04 HS24060293-05 HS24060293-06

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ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060293

QC BATCH REPORT

Batch ID: 213147 (0) **Instrument: SV-6** **Method: SEMIVOLATILES SIM**

MBLK Sample ID: **MBLK-213147** Units: **ug/L** Analysis Date: **19-Jun-2024 14:56**
Client ID: Run ID: **SV-6_469928** SeqNo: **8087395** PrepDate: **07-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	0.0040	0.030								U
Surr: 2-Fluorobiphenyl	*0.06583*	*0*	*0.08*	*0*	*82.3*	*40 - 140*				
Surr: 4-Terphenyl-d14	*0.06525*	*0*	*0.08*	*0*	*81.6*	*40 - 140*				
Surr: Nitrobenzene-d5	*0.06051*	*0*	*0.08*	*0*	*75.6*	*40 - 140*				

LCS Sample ID: **LCS-213147** Units: **ug/L** Analysis Date: **19-Jun-2024 15:14**
Client ID: Run ID: **SV-6_469928** SeqNo: **8087396** PrepDate: **07-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	0.07868	0.030	0.08	0	98.3	40 - 140				
Surr: 2-Fluorobiphenyl	*0.0825*	*0*	*0.08*	*0*	*103*	*40 - 140*				
Surr: 4-Terphenyl-d14	*0.08441*	*0*	*0.08*	*0*	*106*	*40 - 140*				
Surr: Nitrobenzene-d5	*0.08209*	*0*	*0.08*	*0*	*103*	*40 - 140*				

LCSD Sample ID: **LCSD-213147** Units: **ug/L** Analysis Date: **19-Jun-2024 15:31**
Client ID: Run ID: **SV-6_469928** SeqNo: **8087397** PrepDate: **07-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	0.07559	0.030	0.08	0	94.5	40 - 140	0.07868	4	20	
Surr: 2-Fluorobiphenyl	*0.0831*	*0*	*0.08*	*0*	*104*	*40 - 140*	*0.0825*	*0.729*	*20*	
Surr: 4-Terphenyl-d14	*0.08584*	*0*	*0.08*	*0*	*107*	*40 - 140*	*0.08441*	*1.68*	*20*	
Surr: Nitrobenzene-d5	*0.07788*	*0*	*0.08*	*0*	*97.4*	*40 - 140*	*0.08209*	*5.26*	*20*	

The following samples were analyzed in this batch: HS24060293-01 HS24060293-02 HS24060293-03 HS24060293-04 HS24060293-05 HS24060293-06

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ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060293

QC BATCH REPORT

Batch ID: R469580 (0) **Instrument:** VOA7 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MBLK Sample ID: **VBLKW-240615** Units: **ug/L** Analysis Date: **15-Jun-2024 20:07**
Client ID: Run ID: **VOA7_469580** SeqNo: **8073882** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	0.50	1.0								U
1,1,1-Trichloroethane	0.50	1.0								U
1,1,2,2-Tetrachloroethane	0.50	1.0								U
1,1,2-Trichloroethane	0.50	1.0								U
1,1-Dichloroethane	0.50	1.0								U
1,1-Dichloroethene	0.50	1.0								U
1,1-Dichloropropene	0.50	1.0								U
1,2,3-Trichlorobenzene	0.50	1.0								U
1,2,3-Trichloropropane	0.50	1.0								U
1,2,4-Trichlorobenzene	0.50	1.0								U
1,2,4-Trimethylbenzene	0.50	1.0								U
1,2-Dibromo-3-chloropropane	0.50	1.0								U
1,2-Dibromoethane	0.50	1.0								U
1,2-Dichlorobenzene	0.50	1.0								U
1,2-Dichloroethane	0.50	1.0								U
1,2-Dichloropropane	0.50	1.0								U
1,3,5-Trimethylbenzene	0.50	1.0								U
1,3-Dichlorobenzene	0.50	1.0								U
1,3-Dichloropropane	0.50	1.0								U
1,4-Dichlorobenzene	0.50	1.0								U
2,2-Dichloropropane	0.50	1.0								U
2-Butanone	1.0	2.0								U
2-Chlorotoluene	0.50	1.0								U
2-Hexanone	1.0	2.0								U
4-Chlorotoluene	0.50	1.0								U
4-Isopropyltoluene	0.50	1.0								U
4-Methyl-2-pentanone	1.0	2.0								U
Acetone	1.0	2.0								U
Benzene	0.50	1.0								U
Bromobenzene	0.50	1.0								U
Bromochloromethane	0.50	1.0								U
Bromodichloromethane	0.50	1.0								U
Bromoform	0.50	1.0								U
Bromomethane	0.50	1.0								U

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060293

QC BATCH REPORT

Batch ID: R469580 (0) **Instrument: VOA7** **Method: VOLATILES ORGANICS BY METHOD 8260C**

MBLK Sample ID: **VBLKW-240615** Units: **ug/L** Analysis Date: **15-Jun-2024 20:07**
Client ID: Run ID: **VOA7_469580** SeqNo: **8073882** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	1.0	2.0								U
Carbon tetrachloride	0.50	1.0								U
Chlorobenzene	0.50	1.0								U
Chloroethane	0.50	1.0								U
Chloroform	0.50	1.0								U
Chloromethane	0.50	1.0								U
cis-1,2-Dichloroethene	0.50	1.0								U
cis-1,3-Dichloropropene	0.50	1.0								U
Dibromochloromethane	0.50	1.0								U
Dibromomethane	0.50	1.0								U
Dichlorodifluoromethane	0.50	1.0								U
Ethylbenzene	0.50	1.0								U
Hexachlorobutadiene	0.50	1.0								U
Isopropylbenzene	0.50	1.0								U
m,p-Xylene	1.0	2.0								U
Methylene chloride	0.50	2.0								U
Naphthalene	0.50	1.0								U
n-Butylbenzene	0.50	1.0								U
n-Propylbenzene	0.50	1.0								U
o-Xylene	0.50	1.0								U
sec-Butylbenzene	0.50	1.0								U
Styrene	0.50	1.0								U
tert-Butylbenzene	0.50	1.0								U
Tetrachloroethene	0.50	1.0								U
Toluene	0.50	1.0								U
trans-1,2-Dichloroethene	0.50	1.0								U
trans-1,3-Dichloropropene	0.50	1.0								U
Trichloroethene	0.50	1.0								U
Trichlorofluoromethane	0.50	1.0								U
Vinyl chloride	0.50	1.0								U
Surr: 1,2-Dichloroethane-d4	*57.75*	*35*	*50*	*0*	*116*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*54.97*	*35*	*50*	*0*	*110*	*85 - 114*				
Surr: Dibromofluoromethane	*57.43*	*35*	*50*	*0*	*115*	*80 - 119*				
Surr: Toluene-d8	*55.86*	*35*	*50*	*0*	*112*	*89 - 112*				

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060293

QC BATCH REPORT

Batch ID: R469580 (0) **Instrument:** VOA7 **Method:** VOLATILES ORGANICS BY METHOD 8260C

LCS Sample ID: **VLCSW-240615** Units: **ug/L** Analysis Date: **15-Jun-2024 18:58**
Client ID: Run ID: **VOA7_469580** SeqNo: **8073880** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	19.73	1.0	20	0	98.6	78 - 124				
1,1,1-Trichloroethane	18.76	1.0	20	0	93.8	74 - 131				
1,1,2,2-Tetrachloroethane	20.87	1.0	20	0	104	71 - 121				
1,1,2-Trichloroethane	20.29	1.0	20	0	101	80 - 119				
1,1-Dichloroethane	17.88	1.0	20	0	89.4	77 - 125				
1,1-Dichloroethene	19.31	1.0	20	0	96.5	71 - 131				
1,1-Dichloropropene	19.21	1.0	20	0	96.0	78 - 125				
1,2,3-Trichlorobenzene	19.99	1.0	20	0	99.9	69 - 129				
1,2,3-Trichloropropane	20.04	1.0	20	0	100	73 - 122				
1,2,4-Trichlorobenzene	20.66	1.0	20	0	103	69 - 130				
1,2,4-Trimethylbenzene	20.66	1.0	20	0	103	76 - 124				
1,2-Dibromo-3-chloropropane	19.2	1.0	20	0	96.0	62 - 128				
1,2-Dibromoethane	19.46	1.0	20	0	97.3	77 - 121				
1,2-Dichlorobenzene	20.37	1.0	20	0	102	80 - 119				
1,2-Dichloroethane	18.82	1.0	20	0	94.1	73 - 128				
1,2-Dichloropropane	19.16	1.0	20	0	95.8	78 - 122				
1,3,5-Trimethylbenzene	20.34	1.0	20	0	102	75 - 124				
1,3-Dichlorobenzene	20.76	1.0	20	0	104	80 - 119				
1,3-Dichloropropane	19.99	1.0	20	0	99.9	80 - 119				
1,4-Dichlorobenzene	20.53	1.0	20	0	103	79 - 118				
2,2-Dichloropropane	17.51	1.0	20	0	87.6	60 - 139				
2-Butanone	39.81	2.0	40	0	99.5	56 - 143				
2-Chlorotoluene	20.65	1.0	20	0	103	79 - 122				
2-Hexanone	39.8	2.0	40	0	99.5	57 - 139				
4-Chlorotoluene	20.56	1.0	20	0	103	78 - 122				
4-Isopropyltoluene	20.35	1.0	20	0	102	77 - 127				
4-Methyl-2-pentanone	41.31	2.0	40	0	103	67 - 130				
Acetone	36.59	2.0	40	0	91.5	39 - 160				
Benzene	19.6	1.0	20	0	98.0	79 - 120				
Bromobenzene	20.76	1.0	20	0	104	80 - 120				
Bromochloromethane	19.66	1.0	20	0	98.3	78 - 123				
Bromodichloromethane	17.22	1.0	20	0	86.1	79 - 125				
Bromoform	18.5	1.0	20	0	92.5	66 - 130				
Bromomethane	19.47	1.0	20	0	97.3	53 - 141				

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060293

QC BATCH REPORT

Batch ID: R469580 (0) **Instrument:** VOA7 **Method:** VOLATILES ORGANICS BY METHOD 8260C

LCS Sample ID: **VLCSW-240615** Units: **ug/L** Analysis Date: **15-Jun-2024 18:58**
Client ID: Run ID: **VOA7_469580** SeqNo: **8073880** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	38.03	2.0	40	0	95.1	64 - 133				
Carbon tetrachloride	18.26	1.0	20	0	91.3	72 - 136				
Chlorobenzene	19.92	1.0	20	0	99.6	82 - 118				
Chloroethane	19.16	1.0	20	0	95.8	60 - 138				
Chloroform	18.89	1.0	20	0	94.4	79 - 124				
Chloromethane	19.13	1.0	20	0	95.7	50 - 139				
cis-1,2-Dichloroethene	18.97	1.0	20	0	94.9	78 - 123				
cis-1,3-Dichloropropene	18.21	1.0	20	0	91.1	75 - 124				
Dibromochloromethane	18.36	1.0	20	0	91.8	74 - 126				
Dibromomethane	19.14	1.0	20	0	95.7	79 - 123				
Dichlorodifluoromethane	18.28	1.0	20	0	91.4	32 - 152				
Ethylbenzene	19.84	1.0	20	0	99.2	79 - 121				
Hexachlorobutadiene	21.04	1.0	20	0	105	66 - 134				
Isopropylbenzene	20.03	1.0	20	0	100	72 - 131				
m,p-Xylene	40.57	2.0	40	0	101	80 - 121				
Methylene chloride	18.79	2.0	20	0	93.9	74 - 124				
Naphthalene	19.72	1.0	20	0	98.6	61 - 128				
n-Butylbenzene	20.31	1.0	20	0	102	75 - 128				
n-Propylbenzene	20.35	1.0	20	0	102	76 - 126				
o-Xylene	20.35	1.0	20	0	102	78 - 122				
sec-Butylbenzene	20.95	1.0	20	0	105	77 - 126				
Styrene	20.27	1.0	20	0	101	78 - 123				
tert-Butylbenzene	20.5	1.0	20	0	102	78 - 124				
Tetrachloroethene	19.77	1.0	20	0	98.8	74 - 129				
Toluene	20.22	1.0	20	0	101	80 - 121				
trans-1,2-Dichloroethene	17.61	1.0	20	0	88.0	75 - 124				
trans-1,3-Dichloropropene	18.21	1.0	20	0	91.1	73 - 127				
Trichloroethene	19.02	1.0	20	0	95.1	79 - 123				
Trichlorofluoromethane	18.12	1.0	20	0	90.6	65 - 141				
Vinyl chloride	18.79	1.0	20	0	94.0	58 - 137				
Surr: 1,2-Dichloroethane-d4	*47.94*	*35*	*50*	*0*	*95.9*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*51.19*	*35*	*50*	*0*	*102*	*85 - 114*				
Surr: Dibromofluoromethane	*48.36*	*35*	*50*	*0*	*96.7*	*80 - 119*				
Surr: Toluene-d8	*52.34*	*35*	*50*	*0*	*105*	*89 - 112*				

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060293

QC BATCH REPORT

Batch ID: R469580 (0) **Instrument:** VOA7 **Method:** VOLATILES ORGANICS BY METHOD 8260C

LCSD Sample ID: **VLCSDW-240615** Units: **ug/L** Analysis Date: **15-Jun-2024 19:21**
Client ID: Run ID: **VOA7_469580** SeqNo: **8073881** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	19.68	1.0	20	0	98.4	78 - 124	19.73	0.238	20	
1,1,1-Trichloroethane	18.95	1.0	20	0	94.7	74 - 131	18.76	1.01	20	
1,1,2,2-Tetrachloroethane	21.5	1.0	20	0	108	71 - 121	20.87	3.01	20	
1,1,2-Trichloroethane	21.04	1.0	20	0	105	80 - 119	20.29	3.66	20	
1,1-Dichloroethane	18.17	1.0	20	0	90.8	77 - 125	17.88	1.58	20	
1,1-Dichloroethene	19.84	1.0	20	0	99.2	71 - 131	19.31	2.72	20	
1,1-Dichloropropene	19.21	1.0	20	0	96.0	78 - 125	19.21	0.00663	20	
1,2,3-Trichlorobenzene	19.73	1.0	20	0	98.7	69 - 129	19.99	1.28	20	
1,2,3-Trichloropropane	21.16	1.0	20	0	106	73 - 122	20.04	5.44	20	
1,2,4-Trichlorobenzene	20.41	1.0	20	0	102	69 - 130	20.66	1.23	20	
1,2,4-Trimethylbenzene	20.91	1.0	20	0	105	76 - 124	20.66	1.23	20	
1,2-Dibromo-3-chloropropane	19.19	1.0	20	0	95.9	62 - 128	19.2	0.0378	20	
1,2-Dibromoethane	20.21	1.0	20	0	101	77 - 121	19.46	3.76	20	
1,2-Dichlorobenzene	20.92	1.0	20	0	105	80 - 119	20.37	2.65	20	
1,2-Dichloroethane	19.44	1.0	20	0	97.2	73 - 128	18.82	3.29	20	
1,2-Dichloropropane	19.35	1.0	20	0	96.7	78 - 122	19.16	0.973	20	
1,3,5-Trimethylbenzene	20.81	1.0	20	0	104	75 - 124	20.34	2.29	20	
1,3-Dichlorobenzene	20.94	1.0	20	0	105	80 - 119	20.76	0.843	20	
1,3-Dichloropropane	20.24	1.0	20	0	101	80 - 119	19.99	1.25	20	
1,4-Dichlorobenzene	21.08	1.0	20	0	105	79 - 118	20.53	2.62	20	
2,2-Dichloropropane	17.85	1.0	20	0	89.2	60 - 139	17.51	1.91	20	
2-Butanone	42.36	2.0	40	0	106	56 - 143	39.81	6.21	20	
2-Chlorotoluene	20.52	1.0	20	0	103	79 - 122	20.65	0.61	20	
2-Hexanone	40.83	2.0	40	0	102	57 - 139	39.8	2.56	20	
4-Chlorotoluene	20.77	1.0	20	0	104	78 - 122	20.56	1.05	20	
4-Isopropyltoluene	20.55	1.0	20	0	103	77 - 127	20.35	1	20	
4-Methyl-2-pentanone	43.44	2.0	40	0	109	67 - 130	41.31	5.02	20	
Acetone	42.57	2.0	40	0	106	39 - 160	36.59	15.1	20	
Benzene	19.54	1.0	20	0	97.7	79 - 120	19.6	0.264	20	
Bromobenzene	21.06	1.0	20	0	105	80 - 120	20.76	1.43	20	
Bromochloromethane	20.01	1.0	20	0	100	78 - 123	19.66	1.77	20	
Bromodichloromethane	17.56	1.0	20	0	87.8	79 - 125	17.22	1.99	20	
Bromoform	18.89	1.0	20	0	94.5	66 - 130	18.5	2.08	20	
Bromomethane	20.49	1.0	20	0	102	53 - 141	19.47	5.11	20	

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060293

QC BATCH REPORT

Batch ID: R469580 (0) **Instrument: VOA7** **Method: VOLATILES ORGANICS BY METHOD 8260C**

LCSD Sample ID: **VLCSDW-240615** Units: **ug/L** Analysis Date: **15-Jun-2024 19:21**
Client ID: Run ID: **VOA7_469580** SeqNo: **8073881** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Carbon disulfide	38.58	2.0	40	0	96.4	64 - 133	38.03	1.43	20	
Carbon tetrachloride	18.21	1.0	20	0	91.1	72 - 136	18.26	0.225	20	
Chlorobenzene	20.27	1.0	20	0	101	82 - 118	19.92	1.73	20	
Chloroethane	19.8	1.0	20	0	99.0	60 - 138	19.16	3.33	20	
Chloroform	19.74	1.0	20	0	98.7	79 - 124	18.89	4.42	20	
Chloromethane	19.1	1.0	20	0	95.5	50 - 139	19.13	0.194	20	
cis-1,2-Dichloroethene	19.84	1.0	20	0	99.2	78 - 123	18.97	4.47	20	
cis-1,3-Dichloropropene	18.51	1.0	20	0	92.5	75 - 124	18.21	1.61	20	
Dibromochloromethane	18.86	1.0	20	0	94.3	74 - 126	18.36	2.66	20	
Dibromomethane	19.32	1.0	20	0	96.6	79 - 123	19.14	0.929	20	
Dichlorodifluoromethane	18.85	1.0	20	0	94.3	32 - 152	18.28	3.1	20	
Ethylbenzene	20.3	1.0	20	0	101	79 - 121	19.84	2.28	20	
Hexachlorobutadiene	20.86	1.0	20	0	104	66 - 134	21.04	0.866	20	
Isopropylbenzene	20.25	1.0	20	0	101	72 - 131	20.03	1.11	20	
m,p-Xylene	40.85	2.0	40	0	102	80 - 121	40.57	0.689	20	
Methylene chloride	20.23	2.0	20	0	101	74 - 124	18.79	7.42	20	
Naphthalene	19.76	1.0	20	0	98.8	61 - 128	19.72	0.212	20	
n-Butylbenzene	20.4	1.0	20	0	102	75 - 128	20.31	0.441	20	
n-Propylbenzene	20.38	1.0	20	0	102	76 - 126	20.35	0.16	20	
o-Xylene	20.49	1.0	20	0	102	78 - 122	20.35	0.693	20	
sec-Butylbenzene	21.1	1.0	20	0	105	77 - 126	20.95	0.719	20	
Styrene	20.64	1.0	20	0	103	78 - 123	20.27	1.81	20	
tert-Butylbenzene	20.98	1.0	20	0	105	78 - 124	20.5	2.35	20	
Tetrachloroethene	20.07	1.0	20	0	100	74 - 129	19.77	1.53	20	
Toluene	20.15	1.0	20	0	101	80 - 121	20.22	0.337	20	
trans-1,2-Dichloroethene	19.34	1.0	20	0	96.7	75 - 124	17.61	9.35	20	
trans-1,3-Dichloropropene	18.51	1.0	20	0	92.5	73 - 127	18.21	1.61	20	
Trichloroethene	19.43	1.0	20	0	97.1	79 - 123	19.02	2.15	20	
Trichlorofluoromethane	19.44	1.0	20	0	97.2	65 - 141	18.12	7.04	20	
Vinyl chloride	19.22	1.0	20	0	96.1	58 - 137	18.79	2.25	20	
Surr: 1,2-Dichloroethane-d4	*51.37*	*35*	*50*	*0*	*103*	*81 - 118*	*47.94*	*6.91*	*20*	
Surr: 4-Bromofluorobenzene	*51.88*	*35*	*50*	*0*	*104*	*85 - 114*	*51.19*	*1.34*	*20*	
Surr: Dibromofluoromethane	*51.09*	*35*	*50*	*0*	*102*	*80 - 119*	*48.36*	*5.5*	*20*	
Surr: Toluene-d8	*52.49*	*35*	*50*	*0*	*105*	*89 - 112*	*52.34*	*0.29*	*20*	

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060293

QC BATCH REPORT

Batch ID: R469580 (0) **Instrument:** VOA7 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MS Sample ID: **HS24060434-01MS** Units: **ug/L** Analysis Date: **15-Jun-2024 22:01**
Client ID: Run ID: **VOA7_469580** SeqNo: **8073886** PrepDate: DF: **250**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	4013	250	5000	0	80.3	78 - 124				
1,1,1-Trichloroethane	4100	250	5000	0	82.0	74 - 131				
1,1,2,2-Tetrachloroethane	3920	250	5000	0	78.4	71 - 121				
1,1,2-Trichloroethane	3999	250	5000	0	80.0	80 - 119				S
1,1-Dichloroethane	3951	250	5000	0	79.0	77 - 125				
1,1-Dichloroethene	4371	250	5000	177.7	83.9	71 - 131				
1,1-Dichloropropene	4139	250	5000	0	82.8	78 - 125				
1,2,3-Trichlorobenzene	3282	250	5000	0	65.6	69 - 129				S
1,2,3-Trichloropropane	3813	250	5000	0	76.3	73 - 122				
1,2,4-Trichlorobenzene	3605	250	5000	0	72.1	69 - 130				
1,2,4-Trimethylbenzene	4072	250	5000	0	81.4	76 - 124				
1,2-Dibromo-3-chloropropane	3449	250	5000	0	69.0	62 - 128				
1,2-Dibromoethane	3831	250	5000	0	76.6	77 - 121				S
1,2-Dichlorobenzene	3820	250	5000	0	76.4	80 - 119				S
1,2-Dichloroethane	3950	250	5000	0	79.0	73 - 128				
1,2-Dichloropropane	4042	250	5000	0	80.8	78 - 122				
1,3,5-Trimethylbenzene	4083	250	5000	0	81.7	75 - 124				
1,3-Dichlorobenzene	3979	250	5000	0	79.6	80 - 119				S
1,3-Dichloropropane	4011	250	5000	0	80.2	80 - 119				
1,4-Dichlorobenzene	3888	250	5000	0	77.8	79 - 118				S
2,2-Dichloropropane	3711	250	5000	0	74.2	60 - 139				
2-Butanone	7968	500	10000	0	79.7	56 - 143				
2-Chlorotoluene	3993	250	5000	0	79.9	79 - 122				
2-Hexanone	7845	500	10000	0	78.4	57 - 139				
4-Chlorotoluene	3998	250	5000	0	80.0	78 - 122				
4-Isopropyltoluene	4031	250	5000	0	80.6	77 - 127				
4-Methyl-2-pentanone	8143	500	10000	0	81.4	67 - 130				
Acetone	8007	500	10000	0	80.1	39 - 160				
Benzene	4140	250	5000	0	82.8	79 - 120				
Bromobenzene	3977	250	5000	0	79.5	80 - 120				S
Bromochloromethane	3948	250	5000	0	79.0	78 - 123				
Bromodichloromethane	3562	250	5000	0	71.2	79 - 125				S
Bromoform	3646	250	5000	0	72.9	66 - 130				
Bromomethane	4330	250	5000	0	86.6	53 - 141				

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060293

QC BATCH REPORT

Batch ID: R469580 (0) **Instrument:** VOA7 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MS Sample ID: **HS24060434-01MS** Units: **ug/L** Analysis Date: **15-Jun-2024 22:01**
Client ID: Run ID: **VOA7_469580** SeqNo: **8073886** PrepDate: DF: **250**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	8312	500	10000	0	83.1	64 - 133				
Carbon tetrachloride	4009	250	5000	0	80.2	72 - 136				
Chlorobenzene	4010	250	5000	0	80.2	82 - 118				S
Chloroethane	4365	250	5000	0	87.3	60 - 138				
Chloroform	4116	250	5000	0	82.3	79 - 124				
Chloromethane	4282	250	5000	0	85.6	50 - 139				
cis-1,2-Dichloroethene	24020	250	5000	20600	68.4	78 - 123				SO
cis-1,3-Dichloropropene	3806	250	5000	0	76.1	75 - 124				
Dibromochloromethane	3633	250	5000	0	72.7	74 - 126				S
Dibromomethane	3906	250	5000	0	78.1	79 - 123				S
Dichlorodifluoromethane	4195	250	5000	0	83.9	32 - 152				
Ethylbenzene	4116	250	5000	0	82.3	79 - 121				
Hexachlorobutadiene	3892	250	5000	0	77.8	66 - 134				
Isopropylbenzene	4132	250	5000	0	82.6	72 - 131				
m,p-Xylene	8356	500	10000	0	83.6	80 - 121				
Methylene chloride	4223	500	5000	0	84.5	74 - 124				
Naphthalene	3240	250	5000	0	64.8	61 - 128				
n-Butylbenzene	3996	250	5000	0	79.9	75 - 128				
n-Propylbenzene	4081	250	5000	0	81.6	76 - 126				
o-Xylene	4076	250	5000	0	81.5	78 - 122				
sec-Butylbenzene	4105	250	5000	0	82.1	77 - 126				
Styrene	4060	250	5000	0	81.2	78 - 123				
tert-Butylbenzene	4081	250	5000	0	81.6	78 - 124				
Tetrachloroethene	4156	250	5000	0	83.1	74 - 129				
Toluene	4144	250	5000	0	82.9	80 - 121				
trans-1,2-Dichloroethene	4184	250	5000	0	83.7	75 - 124				
trans-1,3-Dichloropropene	3806	250	5000	0	76.1	73 - 127				
Trichloroethene	8907	250	5000	4887	80.4	79 - 123				
Trichlorofluoromethane	4148	250	5000	0	83.0	65 - 141				
Vinyl chloride	4362	250	5000	0	87.2	58 - 137				
Surr: 1,2-Dichloroethane-d4	*14540*	*8800*	*12500*	*0*	*116*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*13530*	*8800*	*12500*	*0*	*108*	*85 - 114*				
Surr: Dibromofluoromethane	*14400*	*8800*	*12500*	*0*	*115*	*80 - 119*				
Surr: Toluene-d8	*15030*	*8800*	*12500*	*0*	*120*	*89 - 112*				S

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060293

QC BATCH REPORT

Batch ID: R469580 (0) **Instrument:** VOA7 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MSD Sample ID: **HS24060434-01MSD** Units: **ug/L** Analysis Date: **15-Jun-2024 22:24**
Client ID: Run ID: **VOA7_469580** SeqNo: **8073887** PrepDate: DF: **250**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	3957	250	5000	0	79.1	78 - 124	4013	1.4	20	
1,1,1-Trichloroethane	3888	250	5000	0	77.8	74 - 131	4100	5.31	20	
1,1,2,2-Tetrachloroethane	3817	250	5000	0	76.3	71 - 121	3920	2.66	20	
1,1,2-Trichloroethane	4031	250	5000	0	80.6	80 - 119	3999	0.79	20	
1,1-Dichloroethane	3822	250	5000	0	76.4	77 - 125	3951	3.3	20	S
1,1-Dichloroethene	4117	250	5000	177.7	78.8	71 - 131	4371	6	20	
1,1-Dichloropropene	3954	250	5000	0	79.1	78 - 125	4139	4.57	20	
1,2,3-Trichlorobenzene	3295	250	5000	0	65.9	69 - 129	3282	0.418	20	S
1,2,3-Trichloropropane	3923	250	5000	0	78.5	73 - 122	3813	2.84	20	
1,2,4-Trichlorobenzene	3602	250	5000	0	72.0	69 - 130	3605	0.104	20	
1,2,4-Trimethylbenzene	3869	250	5000	0	77.4	76 - 124	4072	5.13	20	
1,2-Dibromo-3-chloropropane	3431	250	5000	0	68.6	62 - 128	3449	0.546	20	
1,2-Dibromoethane	3918	250	5000	0	78.4	77 - 121	3831	2.23	20	
1,2-Dichlorobenzene	3828	250	5000	0	76.6	80 - 119	3820	0.216	20	S
1,2-Dichloroethane	3967	250	5000	0	79.3	73 - 128	3950	0.424	20	
1,2-Dichloropropane	3899	250	5000	0	78.0	78 - 122	4042	3.61	20	S
1,3,5-Trimethylbenzene	3888	250	5000	0	77.8	75 - 124	4083	4.88	20	
1,3-Dichlorobenzene	3832	250	5000	0	76.6	80 - 119	3979	3.76	20	S
1,3-Dichloropropane	3888	250	5000	0	77.8	80 - 119	4011	3.11	20	S
1,4-Dichlorobenzene	3834	250	5000	0	76.7	79 - 118	3888	1.39	20	S
2,2-Dichloropropane	3586	250	5000	0	71.7	60 - 139	3711	3.42	20	
2-Butanone	8226	500	10000	0	82.3	56 - 143	7968	3.18	20	
2-Chlorotoluene	3910	250	5000	0	78.2	79 - 122	3993	2.1	20	S
2-Hexanone	7162	500	10000	0	71.6	57 - 139	7845	9.09	20	
4-Chlorotoluene	3842	250	5000	0	76.8	78 - 122	3998	3.98	20	S
4-Isopropyltoluene	3956	250	5000	0	79.1	77 - 127	4031	1.88	20	
4-Methyl-2-pentanone	7965	500	10000	0	79.6	67 - 130	8143	2.21	20	
Acetone	9125	500	10000	0	91.3	39 - 160	8007	13	20	
Benzene	3957	250	5000	0	79.1	79 - 120	4140	4.54	20	
Bromobenzene	3942	250	5000	0	78.8	80 - 120	3977	0.891	20	S
Bromochloromethane	4001	250	5000	0	80.0	78 - 123	3948	1.33	20	
Bromodichloromethane	3480	250	5000	0	69.6	79 - 125	3562	2.35	20	S
Bromoform	3667	250	5000	0	73.3	66 - 130	3646	0.581	20	
Bromomethane	4028	250	5000	0	80.6	53 - 141	4330	7.22	20	

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060293

QC BATCH REPORT

Batch ID: R469580 (0) **Instrument:** VOA7 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MSD Sample ID: **HS24060434-01MSD** Units: **ug/L** Analysis Date: **15-Jun-2024 22:24**
Client ID: Run ID: **VOA7_469580** SeqNo: **8073887** PrepDate: DF: **250**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Carbon disulfide	8043	500	10000	0	80.4	64 - 133	8312	3.29	20	
Carbon tetrachloride	3898	250	5000	0	78.0	72 - 136	4009	2.8	20	
Chlorobenzene	3941	250	5000	0	78.8	82 - 118	4010	1.74	20	S
Chloroethane	4136	250	5000	0	82.7	60 - 138	4365	5.38	20	
Chloroform	3916	250	5000	0	78.3	79 - 124	4116	4.99	20	S
Chloromethane	4019	250	5000	0	80.4	50 - 139	4282	6.34	20	
cis-1,2-Dichloroethene	23650	250	5000	20600	61.0	78 - 123	24020	1.56	20	SO
cis-1,3-Dichloropropene	3685	250	5000	0	73.7	75 - 124	3806	3.23	20	S
Dibromochloromethane	3535	250	5000	0	70.7	74 - 126	3633	2.73	20	S
Dibromomethane	3948	250	5000	0	79.0	79 - 123	3906	1.07	20	S
Dichlorodifluoromethane	4081	250	5000	0	81.6	32 - 152	4195	2.76	20	
Ethylbenzene	4046	250	5000	0	80.9	79 - 121	4116	1.7	20	
Hexachlorobutadiene	3778	250	5000	0	75.6	66 - 134	3892	2.97	20	
Isopropylbenzene	4029	250	5000	0	80.6	72 - 131	4132	2.52	20	
m,p-Xylene	7766	500	10000	0	77.7	80 - 121	8356	7.32	20	S
Methylene chloride	4243	500	5000	0	84.9	74 - 124	4223	0.466	20	
Naphthalene	3351	250	5000	0	67.0	61 - 128	3240	3.39	20	
n-Butylbenzene	3806	250	5000	0	76.1	75 - 128	3996	4.87	20	
n-Propylbenzene	3944	250	5000	0	78.9	76 - 126	4081	3.42	20	
o-Xylene	3938	250	5000	0	78.8	78 - 122	4076	3.43	20	
sec-Butylbenzene	3970	250	5000	0	79.4	77 - 126	4105	3.33	20	
Styrene	3881	250	5000	0	77.6	78 - 123	4060	4.52	20	S
tert-Butylbenzene	3927	250	5000	0	78.5	78 - 124	4081	3.85	20	
Tetrachloroethene	3906	250	5000	0	78.1	74 - 129	4156	6.21	20	
Toluene	3998	250	5000	0	80.0	80 - 121	4144	3.59	20	S
trans-1,2-Dichloroethene	4026	250	5000	0	80.5	75 - 124	4184	3.86	20	
trans-1,3-Dichloropropene	3685	250	5000	0	73.7	73 - 127	3806	3.23	20	
Trichloroethene	8673	250	5000	4887	75.7	79 - 123	8907	2.67	20	S
Trichlorofluoromethane	4091	250	5000	0	81.8	65 - 141	4148	1.36	20	
Vinyl chloride	4146	250	5000	0	82.9	58 - 137	4362	5.07	20	
Surr: 1,2-Dichloroethane-d4	*14900*	*8800*	*12500*	*0*	*119*	*81 - 118*	*14540*	*2.45*	*20*	S
Surr: 4-Bromofluorobenzene	*14030*	*8800*	*12500*	*0*	*112*	*85 - 114*	*13530*	*3.67*	*20*	
Surr: Dibromofluoromethane	*15000*	*8800*	*12500*	*0*	*120*	*80 - 119*	*14400*	*4.08*	*20*	S
Surr: Toluene-d8	*15420*	*8800*	*12500*	*0*	*123*	*89 - 112*	*15030*	*2.56*	*20*	S

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client:	Bhate Environmental Associates, Inc.
Project:	LHAAP Site 18/24
WorkOrder:	HS24060293

QC BATCH REPORT

Batch ID:	**R469580 (0)**	**Instrument:**	**VOA7**	**Method:**	**VOLATILES ORGANICS BY METHOD 8260C**

The following samples were analyzed in this batch:	HS24060293-01	HS24060293-03	HS24060293-04	HS24060293-05
	HS24060293-06	HS24060293-07		

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ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: **HS24060293**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
mg/L	Milligrams per Liter

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CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arizona	AZ0793	27-May-2025
Arkansas	88-00356_2024	27-Mar-2025
California	2919; 2025	30-Apr-2025
Florida	E87611-38	30-Jun-2024
Illinois	2000322023-11	30-Jun-2024
Kansas	E-10352 2023-2024	31-Jul-2024
Kentucky	123043	30-Apr-2025
Louisiana	03087 2023-2024	30-Jun-2025
Maine	2024017	23-Jun-2026
Maryland	343; 2023-2024	30-Jun-2024
Michigan	9971	30-Apr-2025
North Carolina	624 - 2024	31-Dec-2024
Oklahoma	2023-140	31-Aug-2024
Tennessee	04016	30-Apr-2025
Texas	T104704231 TX-C24-00130	30-Apr-2025
Utah	TX026932023-14	31-Jul-2024

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ALS Houston, US Date: 28-Jun-24

Sample Receipt Checklist

Work Order ID: HS24060293 **Date/Time Received:** **06-Jun-2024 09:45**

Client Name: Bhate Environmental **Received by:** **Si Ma**

Completed By:	*/S/ Rajen Giga*	06-Jun-2024 11:44	**Reviewed by:**	*/S/ sebastian.lugo*	07-Jun-2024 12:02
	eSignature	Date/Time		eSignature	Date/Time

Matrices: **GW** Carrier name: **FedEx Priority Overnight**

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑	
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes ☐	No ☐	Not Present ☑	
Chain of custody present?	Yes ☑	No ☐	1 Page(s)	
Chain of custody signed when relinquished and received?	Yes ☐	No ☑	COC IDs:1	
Samplers name present on COC?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐		
Temperature(s)/Thermometer(s):	2.1uc/2.2c	IR31		
Cooler(s)/Kit(s):	46232			
Date/Time sample(s) sent to storage:	06/06/2024 11:50			
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐	
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐	
pH adjusted?	Yes ☐	No ☑	N/A ☐	
pH adjusted by:				

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

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bhate

1608 13th Avenue South, Suite 300
Birmingham Alabama 35205
Tel: 205-918-4000
Fax: 205-918-4050

Chain of Custody and Analytical Request

Page: ____ of ____

Project/Phase No: JVPCIBH.0001

COC Number(1): ____

LIMS Number: ____

Facility/Base I.D.: LHAAP / **BILL to PCI**

Project/Site Name: LHAAP / Site 18/24

Client Name:

Collected by: Scott Beesinger

Field Sample ID (30 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code [2]	Sample Number [3]	Sample Matrix [4]	Number of containers	VOC	PERCHLORATE	TOTAL METALS	1,4 - DIOXANE				Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
MW5_060524	05-Jun-2024	0925	-	N		WG	5	X	X		X							
18CPTMW08SW_060524	05-Jun-2024	1010	-	N		WG	2		X		X							
18CPTMW08SW_060524	05-Jun-2024	1055	-	N		WG	5	X	X		X							
18CPTMW03SW_060524	05-Jun-2024	1140		N		WG	6	X	X	X	X							
18CPTMW22DW_060524	05-Jun-2024	1235		N		WG	6	X	X	X	X							
18CPTMW22R_060524	05-Jun-2024	1320	-	N		WG	6	X	X	X	X							
TRIP BLANK	05-Jun-2024		-	TB		W	2	X										
			-															
			-															
			-															
			-															

Sample Analysis Requested [5] | Quality Assurance Samples [6]

HS24060293

Bhate Environmental Associates, Inc.
LHAAP Site 18/24

COMMENTS: STANDARD TAT Cooler # 46232 Temp 2.1 BRASS / CLP to 1

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.			1.		
2.			2.		
3.			3. [illegible]		09:45

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: ____ Shipped ____ No.:

____ Method of Shipment: ____

____ Fed Ex ____ Airbill Number:

____ Analytical Lab: ALS 10450 Stancliff Rd. Suite 210 Houston, TX 77099 (281) 530-5656

ATTN: Dane Wacasey Lab Recipient: Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

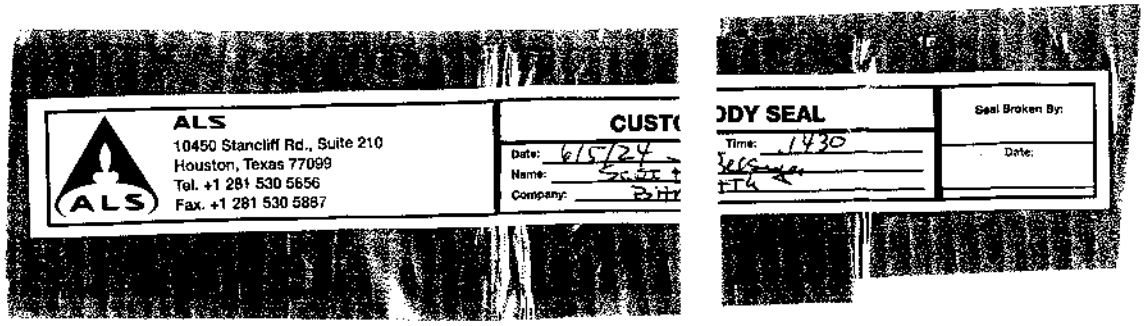
3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

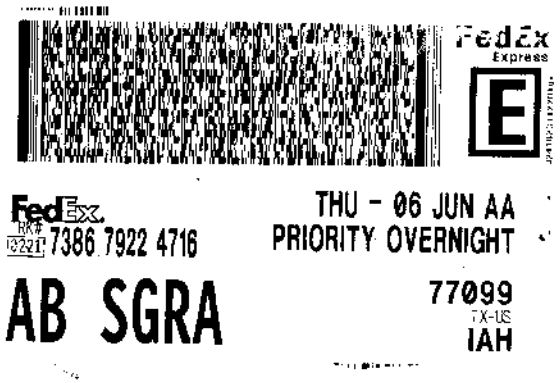
4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

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June 13, 2024 Service Request No:E2400650

Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210 Houston,
TX 77099

Laboratory Results for: HS24060293
Dear Luis,

Enclosed are the results of the sample(s) submitted to our laboratory June 06, 2024
For your reference, these analyses have been assigned our service request number **E2400650.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current TNI standards, where applicable, and except as noted in the laboratory case narrative provided. All results are intended to be considered in their entirety and ALS Environmental is not responsible for use of less than the complete final report. Results apply only to the items submitted to the laboratory, as received for analysis. In accordance with the current TNI Standard, a statement on the estimated uncertainty of measurement of any quantitative analysis will be supplied upon request.

Please contact me if you have any questions. My extension is 2190. You may also contact me via email at hussam.kelany@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

HKelany

Hussam Kelany
Project Manager

ADDRESS 10450 Stancliff Rd., Suite 210, Houston, TX 77099
PHONE +1 281 530 5656 | FAX +1 281 530 5887
ALS Group USA, Corp.
dba ALS Environmental

Certificate of Analysis

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

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Client:	ALS Environmental - US	**Service Request No.:**	E2400650
Project:	Perchlorates	**Date Received:**	06/06/24
Sample Matrix:	Ground Water		

CASE NARRATIVE

All analyses were performed in adherence to the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Six samples were received for analysis at ALS Environmental in Houston on 06/06/24.

The samples were received in good condition and are consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

Data Validation Notes and Discussion

Precision and Accuracy:

EQ2400303: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) samples were analyzed and reported in addition to a MS/MSD for this extraction batch.

The batch precision (MS/DMS) measurements were determined on an unrelated sample in the extraction batch. The MS/DMS results are not included in this report.

MS/DMS (EQ2400303-04/EQ2400303-05) out of control due to matrix interference.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS group USA Corp dba ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

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Client: ALS Environmental - US **Service Request:**E2400650
Project: Perchlorates

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2400650-001	MW5_060524	6/5/2024	0925
E2400650-002	18CPTMW08DW_060524	6/5/2024	1010
E2400650-003	18CPTMW08SW_060524	6/5/2024	1055
E2400650-004	18CPTMW035SW_060524	6/5/2024	1140
E2400650-005	18CPTMW022DW_060524	6/5/2024	1235
E2400650-006	18CPTMW022R_060524	6/5/2024	1320

Service Request Summary

Folder #: **E2400650**
Client Name: ALS Environmental - US
Project Name: Perchlorates
Project Number:

Report To: Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099
USA
Phone Number:
Cell Number:
Fax Number:
E-mail: luis.aguilar@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: JCORONADO2
Date Received: 06/06/24
Internal Due Date: 6/18/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: BASIC_WQC_CASNo

6 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 7B
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	HOUSTON ClO4 DOD/6850
E2400650-001	MW5_060524	Ground Water	06/05/24 0925	**IV**
E2400650-002	18CPTMW08DW_060524	Ground Water	06/05/24 1010	**IV**
E2400650-003	18CPTMW08SW_060524	Ground Water	06/05/24 1055	**IV**
E2400650-004	18CPTMW035SW_060524	Ground Water	06/05/24 1140	**IV**
E2400650-005	18CPTMW022DW_060524	Ground Water	06/05/24 1235	**IV**
E2400650-006	18CPTMW022R_060524	Ground Water	06/05/24 1320	**IV**

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Service Request Summary

Folder #: **E2400650**
Client Name: ALS Environmental - US
Project Name: Perchlorates
Project Number:

Report To: Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099
USA
Phone Number:
Cell Number:
Fax Number:
E-mail: luis.aguilar@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: JCORONADO2
Date Received: 06/06/24
Internal Due Date: 6/18/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: BASIC_WQC_CASNo

6 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 7B
Pressure Gas:

Data Qualifiers

Lab Standard

+	Possible Tedlar bag artifact.
A	TIC is a suspected aldol-condensation product
B	Analyte found in the associated method blank as well as in the sample.
BC	Reported results are not blank corrected.
BH	The back section of the tube yielded higher results than the front.
BT	Results indicated possible breakthrough; back section >=10% front section.
C	Result identification confirmed.
D	Compound identified in an analysis at a secondary dilution factor
D	Spike was diluted out
DE	Reported results are corrected for desorption efficiency.
E	Estimated value. Concentration above calibration range
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
H1	Sample analysis performed past holding time. See case narrative.
H2	Initial analysis within holding time. Reanalysis for the required dilution was past holding time.
H3	Sample was received and analyzed past holding time.
H4	Sample was extracted past required extraction holding time, but analyzed within analysis holding time. See case narrative.
I	(Auto) The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
I	Internal standard not within the specified limits. See case narrative.
I	The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
J	Estimated Value. Concentration found below MRL.
K	A deflection in the QC ion may indicate interference with the quantitation of this ion. The concentration of this analyte should be considered as an estimate.
K	Analyte was detected above the method reporting limit prior to normalization.
K	The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
L1	Laboratory control sample recovery outside the specified limits; results may be biased high.
L2	Laboratory control sample recovery outside the specified limits; results may be biased low.
L3	Laboratory control sample recovery outside the specified limits.
M	Matrix interference; results may be biased high.
M	The duplicate injection precision not met.

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Data Qualifiers

Lab Standard

M1	Matrix interference due to coelution with a non-target compound; results may be biased high.
N	Presumptive evidence of a compound for TICs that have been identified based on a mass spectral library search.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
P	Indicates chlorodiphenyl ether interference present at the retention time of the target compound.
P	Pesticide/Aroclor target analyte > 40% difference for detected concentrations between GC columns
Q	Indicates as estimated value because the P and P + 2 theoretical abundance ratio does not meet method criteria.
R	Duplicate Precision not met.
R1	Duplicate precision not within the specified limits; however, the results are below the MRL and considered estimated.
S	Surrogate recovery not within specified limits.
S	The reported value was determined by the Method of Standard Additions (MSA).
T	Analyte is a tentatively identified compound, result is estimated.
U	Compound was analyzed for, but was not detected (ND).
V1	The continuing calibration verification standard was outside (biased high) the specified limits for this compound.
V2	The continuing calibration verification standard was outside (biased low) the specified limits for this compound.
W	Result quantified, but the corresponding peak was detected outside the generated retention time window.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
X	See case narrative.
Y	Recovery outside limits
Y	The chromatogram resembles a petroleum product but does not match the calibration standard.
Z	The chromatogram does not resemble a petroleum product.
i	The MRL/MDL has been elevated due to a matrix interference.

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Acronyms

Cal	Calibration
Conc	CONCentration
Dioxin(s)	Polychlorinated dibenzo-p-dioxin(s)
EDL	Estimated Detection Limit
EMPC	Estimated Maximum Possible Concentration
Flags	Data qualifiers
Furan(s)	Polychlorinated dibenzofuran(s)
g	Grams
ICAL	Initial CALibration
ID	IDentifier
Ions	Masses monitored for the analyte during data acquisition
L	Liter (s)
LCS	Laboratory Control Sample
DLCS	Duplicate Laboratory Control Sample
MB	Method Blank
MCL	Method Calibration Limit
MDL	Method Detection Limit
mL	Milliliters
MS	Matrix Spiked sample
DMS	Duplicate Matrix Spiked sample
NO	Number of peaks meeting all identification criteria
PCDD(s)	Polychlorinated dibenzo-p-dioxin(s)
PCDF(s)	Polychlorinated dibenzofuran(s)
ppb	Parts per billion
ppm	Parts per million
ppq	Parts per quadrillion
ppt	Parts per trillion
QA	Quality Assurance
QC	Quality Control
Ratio	Ratio of areas from monitored ions for an analyte
% Rec.	Percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
RT	Retention Time
SDG	Sample Delivery Group
S/N	Signal-to-noise ratio
TEF	Toxicity Equivalence Factor
TEQ	Toxicity Equivalence Quotient

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ALS Environmental

State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Arkansas Department of Environmental Quality	88-00356	3/28/2025
California State Environmental Laboratory Accreditation Program	2919-2024	4/30/2025
Department of Defense	L24-240	4/30/2026
Florida Department of Health	E87611-38	6/30/2024
Hawaii Department of Health	2024	4/30/2025
Illinois Environmental Protection Agency	2000322023-11	6/30/2024
Kansas Department of Health and Environment	E-10352 2023-2024	7/31/2024
Louisiana Department of Environmental Quality	03087-2023	6/30/2024
Louisiana Department of Health and Hospitals	LA028-2024	12/31/2024
Maryland Department of the Environment	343-2023	6/30/2024
Minnesota Department of Health	2645386	12/31/2024
Nevada Division of Environmental Protection	TX026932024-1	7/31/2024
New Hampshire Environmental Laboratory Accreditation Program	209424-A	4/24/2025
New Jersey Department of Environmental Protection	TX008-2024	6/30/2024
Oklahoma Department of Environmental Quality	2023-140	8/31/2024
Oregon Environmental Laboratory Accreditation Program	TX200002-2024	5/15/2025
Pennsylvania Department of Environmental Protection	68-03441-017	6/30/2024
Tennessee Department of Environment and Conservation	04016-2024	4/30/2025
Texas Commision on Environmental Quality	TX-C24-00130	4/30/2025
Utah Department of Health Environmental Laboratory Certification	TX026932023-14	7/31/2024
Washington Department of Ecology	C819-23	11/14/2024

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Chain of Custody

ALS Environmental - Houston Specialties Laboratory
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Phone (281)530-5656 Fax (281)530-5887
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E2400650 5
ALS Laboratory Group
Perchlorates

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Houston, TX 77099
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F: +1 281 530 5887
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Subcontract Chain of Custody

SAMPLING STATE: **Texas** **COC ID:** **25909**

SUBCONTRACT TO:

ALS Environmental
10450 Stancliff RoadSuite 210
Houston, TX 77084

Phone: +1 281 530 5656

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	James Guin
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	James.Guin@alsglobal.com
Alternate Contact:	Jumoke M. Lawal
Email:	jumoke.lawal@alsglobal.com

INVOICE INFORMATION:

Company:	ALS Houston
Contact:	Accounts Payable
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Reference:	HS24060293
TSR:	Sonia West

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS24060293-01**	**MW5_060524**	**Groundwater**	**05 Jun 2024 09:25**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			20 Jun 2024
2.	**HS24060293-02**	**18CPTMW08DW_060524**	**Groundwater**	**05 Jun 2024 10:10**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			20 Jun 2024
3.	**HS24060293-03**	**18CPTMW08SW_060524**	**Groundwater**	**05 Jun 2024 10:55**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			20 Jun 2024
4.	**HS24060293-04**	**18CPTMW035SW_060524**	**Groundwater**	**05 Jun 2024 11:40**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			20 Jun 2024
5.	**HS24060293-05**	**18CPTMW022DW_060524**	**Groundwater**	**05 Jun 2024 12:35**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			20 Jun 2024
6.	**HS24060293-06**	**18CPTMW022R_060524**	**Groundwater**	**05 Jun 2024 13:20**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			20 Jun 2024

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.

QC Level: DOD IV (DoD Data Package)

Subcontract Chain of Custody

SAMPLING STATE: **Texas**

COC ID: **25909**

Relinquished By: _____ Date/Time: _____

Received By: _____ Date/Time: 6/6/24 0945

Cooler ID(s): _____ Temperature(s): _____

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E2400650
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Perchlorates
5

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Sample Receipt Checklist

Work Order ID: HS24060293 **Date/Time received:** 06 Jun 2024 09:45

Client name: Bhate Environmental Associates, Inc. **Received by:** Si Ma

Completed/By: 06 Jun 2024 11:44 Rajen Giga **Reviewed/By:** _____
Date/Time eSignature Date/Time eSignature

Matrices: GW **Carrier name:** FedEx Priority Overnight

Shipping container/cooler in good condition?	☑ Yes	☐ No	☐ Not Present	
Custody seals intact on shipping container/cooler?	☑ Yes	☐ No	☐ Not Present	
Custody seals intact on Sample bottles?	☐ Yes	☐ No	☑ Not Present	
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	☐ Yes	☐ No	☑ Not Present	
Chain of custody present?	☑ Yes	☐ No	1 Page(s)	
Chain of custody signed when relinquished and received?	☐ Yes	☑ No	COC ID(s): 1	
Samplers name present on COC?	☑ Yes	☐ No		
Chain of custody agrees with sample labels?	☑ Yes	☐ No		
Samples in proper container/bottle?	☑ Yes	☐ No		
Sample containers intact?	☑ Yes	☐ No		
Sufficient sample volume for indicated test?	☑ Yes	☐ No		
All samples received within holding time?	☑ Yes	☐ No		
Container/Temp Blank temperature in compliance?	☑ Yes	☐ No		

Temperature(s)/Thermometer(s): 2.1uc/2.2c IR31

Cooler Information: 1 Cooler(s), 46232

Date/Time sample(s) sent to storage: 06/06/2024 11:50

Water - VOA vials have zero headspace?	☑ Yes	☐ No	☐ No VOA vials submitted
Water - pH acceptable upon receipt?	☑ Yes	☐ No	☐ Not Applicable
pH adjusted?	☐ Yes	☑ No	☐ Not Applicable

pH adjusted by: _____

Login notes: _____

Client contacted: _____ **Date contacted:** _____ **Person contacted:** _____

Contacted by: _____ **Regarding:** _____

Comments: _____

Corrective action: _____

10450 Stancliff Rd., Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
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SAMPLE ACCEPTANCE POLICY

This policy outlines the criteria samples must meet to be accepted by ALS Environmental – Houston HRMS.

Cooler Custody Seals (desirable, mandatory if specified in SAP):

- ✓ Intact on outside of cooler, signed and dated

Chain-of-Custody (COC) documentation (mandatory):

The following is required on each COC:

- ✓ Sample ID, the location, date and time of collection, collector's name, preservation type, sample type, and any other special remarks concerning the sampleThe COC must be completed in ink.
- ✓ Signature and date of relinquishing party.

In the absence of a COC at sample receipt, the COC will be requested from the client.

Sample Integrity (mandatory):

Samples are inspected upon arrival to ensure that sample integrity was not compromised during transfer to the laboratory.

- ✓ Sample containers must arrive in good condition (not broken or leaking).
- ✓ Samples must be labeled appropriately, including Sample IDs, and requested test using durable labels and indelible ink.
- ✓ The correct type of sample bottle must be used for the method requested.
- ✓ An appropriate sample volume, or weight, must be received.
- ✓ Sample IDs and number of containers must reconcile with the COC.
- ✓ Samples must be received within the method defined holding time.

Temperature Requirement (varies by sample matrix):

- ✓ Aqueous and Non-aqueous samples must be shipped and stored cold, at 0 to 6ºC.
- ✓ Tissue samples must be shipped and stored frozen, at -20 to -10ºC.
- ✓ Air samples are shipped and stored cold, at 0 to 6ºC
- ✓ The sample temperature must be recorded on the COC

All cooler inspections are documented on the Cooler Receipt Form (CRF). A separate CRF is completed for each service request. Any samples not meeting the above criteria are noted on the CRF and the Project Manager notified. The Project Manager must resolve any sample integrity issues with the client prior to proceeding with the analysis. Such resolutions are documented in writing and filed with the project folder. Data associated with samples received outside of this acceptance policy will be qualified on the case narrative of the final report

Preparation Information Benchsheets

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

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Preparation Information Benchsheet

Prep Run#: 439817 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/CGUERRA **Prep Method:** Method **Prep Date/Time:** 6/11/24 09:37

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2400629-001	LGAC-INF-060324	.01	6850/ClO4			Water	10mL	
2	E2400647-001	MTARNG-GW-LH01	.01	6850/ClO4 DOD			Water	10mL	
3	E2400647-002	MTARNG-GW-LH02	.01	6850/ClO4 DOD			Water	10mL	
4	E2400647-003	MTARNG-GW-LH04	.01	6850/ClO4 DOD			Water	10mL	
5	E2400647-004	MTARNG-GW-LH05	.01	6850/ClO4 DOD			Water	10mL	
6	E2400647-005	MTARNG-GW-FD01	.01	6850/ClO4 DOD			Water	10mL	
7	E2400647-006	MTARNG-GW-CB01	.01	6850/ClO4 DOD			Water	10mL	
8	E2400650-001	MW5_060524	.01	6850/ClO4 DOD			Ground Water	10mL	
9	E2400650-002	18CPTMW08DW_060524	.01	6850/ClO4 DOD			Ground Water	10mL	
10	E2400650-003	18CPTMW08SW_060524	.01	6850/ClO4 DOD			Ground Water	10mL	
11	E2400650-004	18CPTMW035SW_060524	.01	6850/ClO4 DOD			Ground Water	10mL	
12	E2400650-005	18CPTMW022DW_060524	.01	6850/ClO4 DOD			Ground Water	10mL	
13	E2400650-006	18CPTMW022R_060524	.01	6850/ClO4 DOD			Ground Water	10mL	
14	EQ2400303-01	MB		6850/ClO4 DOD			Liquid	10mL	
15	EQ2400303-02	LCS		6850/ClO4 DOD			Liquid	10mL	
16	EQ2400303-03	ICS		6850/ClO4 DOD			Liquid	10mL	
17	EQ2400303-04	MTARNG-GW-LH05 MS	.02	6850/ClO4 DOD			Liquid	10mL	
18	EQ2400303-05	MTARNG-GW-LH05 DMS	.02	6850/ClO4 DOD			Liquid	10mL	

Spiking Solutions

Name: Perchlorate Intermediate Stock 3 Inventory ID 233558 Logbook Ref: Perchlorate INT Stock3 Expires On: 08/05/2024

EQ2400303-02	100.00µL	EQ2400303-02	100.00µL	EQ2400303-03	100.00µL	EQ2400303-03	100.00µL	EQ2400303-04	100.00µL	EQ2400303-05	100.00µL

Name: Perchlorate Anion Spiking Soln. 25,000 ppm Inventory ID 233595 Logbook Ref: Expires On: 08/04/2024

EQ2400303-03	20.00µL	EQ2400303-03	20.00µL

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 235428 Logbook Ref: Perchlorate IS cg5/24/24 Expires On: 11/24/2024

E2400629-001	100.00µL	E2400647-001	100.00µL	E2400647-002	100.00µL	E2400647-003	100.00µL	E2400647-004	100.00µL	E2400647-005	100.00µL
E2400647-006	100.00µL	E2400650-001	100.00µL	E2400650-002	100.00µL	E2400650-003	100.00µL	E2400650-004	100.00µL	E2400650-005	100.00µL
E2400650-006	100.00µL	EQ2400303-01	100.00µL	EQ2400303-01	100.00µL	EQ2400303-02	100.00µL	EQ2400303-02	100.00µL	EQ2400303-03	100.00µL
EQ2400303-03	100.00µL	EQ2400303-04	100.00µL	EQ2400303-05	100.00µL						

Preparation Materials

Water HPLC Grade HPLC WATER 04/15/24 (233144) 6850 0.45um syringe filters SYRING FILTER (229979) 6850 Luer-Lok Syringes Luer Lok Syringes (235268)

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Preparation Information Benchsheet

Prep Run#: 439817 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/CGUERRA **Prep Method:** Method **Prep Date/Time:** 6/11/24 09:37

Preparation Steps

Step: Preparation
Started: 6/11/24 09:37
Finished: 6/11/24 11:00
By: CGUERRA
Comments

Comments: _____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____ Date: _____ Extracts Examined

Received By: _____ Date: _____ Yes No

Analytical Results

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
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ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400650
Project:	Perchlorates	**Date Collected:**	6/ 5/24 0925
Sample Matrix:	Ground Water	**Date Received:**	6/ 6/24
Sample Name:	MW5_060524	**Units:**	µg/L
Lab Code:	E2400650-001	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**26700**		1000	500	250	10000	6/11/24	6/12/24 11:44	439817	843893	

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ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400650
Project:	Perchlorates	**Date Collected:**	6/ 5/24 1010
Sample Matrix:	Ground Water	**Date Received:**	6/ 6/24
Sample Name:	18CPTMW08DW_060524	**Units:**	µg/L
Lab Code:	E2400650-002	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**12300**		1000	500	250	10000	6/11/24	6/12/24 11:55	439817	843893	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400650
Project:	Perchlorates	**Date Collected:**	6/ 5/24 1055
Sample Matrix:	Ground Water	**Date Received:**	6/ 6/24
Sample Name:	18CPTMW08SW_060524	**Units:**	µg/L
Lab Code:	E2400650-003	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**18600**		1000	500	250	10000	6/11/24	6/12/24 11:50	439817	843893	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400650
Project:	Perchlorates	**Date Collected:**	6/ 5/24 1140
Sample Matrix:	Ground Water	**Date Received:**	6/ 6/24
Sample Name:	18CPTMW035SW_060524	**Units:**	µg/L
Lab Code:	E2400650-004	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**11.5**		0.100	0.0500	0.0250	1	6/11/24	6/12/24 11:38	439817	843893	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400650
Project:	Perchlorates	**Date Collected:**	6/ 5/24 1235
Sample Matrix:	Ground Water	**Date Received:**	6/ 6/24
Sample Name:	18CPTMW022DW_060524	**Units:**	µg/L
Lab Code:	E2400650-005	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.0299**	J	0.100	0.0500	0.0250	1	6/11/24	6/12/24 11:33	439817	843893	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400650
Project:	Perchlorates	**Date Collected:**	6/ 5/24 1320
Sample Matrix:	Ground Water	**Date Received:**	6/ 6/24
Sample Name:	18CPTMW022R_060524	**Units:**	µg/L
Lab Code:	E2400650-006	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.0809**	J	0.100	0.0500	0.0250	1	6/11/24	6/11/24 19:00	439817	843806	

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ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400650
Project:	Perchlorates	**Date Collected:**	NA
Sample Matrix:	Ground Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2400303-01	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	0.100	0.0500	0.0250	1	6/11/24	6/11/24 17:15	439817	843806	

Accuracy & Precision

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ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2400650
Project:	Perchlorates	**Date Analyzed:**	06/11/24
Sample Matrix:	Ground Water	**Date Extracted:**	06/11/24

Lab Control Sample Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analysis Method:	6850	**Units:**	ug/L
Prep Method:	Method	**Basis:**	NA
		Analysis Lot:	843806

Lab Control Sample
EQ2400303-02

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Perchlorate	0.110	0.100	110	84-119

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400650
Project:	Perchlorates	**Date Collected:**	NA
Sample Matrix:	Ground Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400303-02	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.110**		0.100	0.0500	0.0250	1	6/11/24	6/11/24 17:20	439817	843806	

HS24060293-MSSEMI-SW8270SIM

ALS WO# HS24060293

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Form 1

Organic Analysis Data Sheet

EPA 3510

Workorder

HS24060293

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 18/24

07/17/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 1 - Organic Analysis Data Sheet

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	LHAAP Site 18/24	HS24060293	

EPA 3510

MW5_060524

	Collected	Received	Matrix	Basis
HS24060293-01	06/05/24 09:25	06/06/24 09:45	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile	PrepBatch
1,4-Dioxane	ug/L	0.14		0.010	0.030	0.030	1	06/19/24 15:49	SV-6_469928	10.D	213147

Form 1 - Organic Analysis Data Sheet

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	LHAAP Site 18/24	HS24060293	

EPA 3510

18CPTMW08DW_060524	Collected	Received	Matrix	Basis
HS24060293-02	06/05/24 10:10	06/06/24 09:45	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile	PrepBatch
1,4-Dioxane	ug/L	0.064		0.010	0.030	0.030	1	06/19/24 16:06	SV-6_469928	11.D	213147

Form 1 - Organic Analysis Data Sheet

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	LHAAP Site 18/24	HS24060293	

EPA 3510

18CPTMW08SW_060524	Collected	Received	Matrix	Basis
HS24060293-03	06/05/24 10:55	06/06/24 09:45	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile	PrepBatch
1,4-Dioxane	ug/L	0.12		0.010	0.030	0.030	1	06/19/24 16:23	SV-6_469928	12.D	213147

Form 1 - Organic Analysis Data Sheet

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	LHAAP Site 18/24	HS24060293	

EPA 3510

18CPTMW03SW_060524	Collected	Received	Matrix	Basis
HS24060293-04	06/05/24 11:40	06/06/24 09:45	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile	PrepBatch
1,4-Dioxane	ug/L	0.13		0.010	0.030	0.030	1	06/19/24 16:41	SV-6_469928	13.D	213147

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 18/24

Workorder HS24060293

EPA 3510

18CPTMW022DW_060524	Collected	Received	Matrix	Basis
HS24060293-05	06/05/24 12:35	06/06/24 09:45	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile	PrepBatch
1,4-Dioxane	ug/L	0.030	U	0.010	0.030	0.030	1	06/19/24 16:58	SV-6_469928	14.D	213147

Form 1 - Organic Analysis Data Sheet

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	LHAAP Site 18/24	HS24060293	

EPA 3510

18CPTMW022R_060524	Collected	Received	Matrix	Basis
HS24060293-06	06/05/24 13:20	06/06/24 09:45	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile	PrepBatch
1,4-Dioxane	ug/L	0.030	U	0.010	0.030	0.030	1	06/19/24 17:16	SV-6_469928	15.D	213147

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Form 2

System Monitoring Compound Recovery

Semi-Volatiles by Semivolatiles SIM

Workorder

HS24060293

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 18/24

07/17/2024

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10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 18/24

Workorder HS24060293

Semi-Volatiles by Semivolatiles SIM

RUNID SV-6-469928

MW5_060524

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24060293-01	Groundwater	06/19/24 15:49	%REC	1
Instrument ID	SV6				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	10.D	0.063	0.08	78.7		40-140
4-Terphenyl-d14	10.D	0.075	0.08	93.2		40-140
Nitrobenzene-d5	10.D	0.067	0.08	83.8		40-140

18CPTMW08DW_060524

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24060293-02	Groundwater	06/19/24 16:06	%REC	1
Instrument ID	SV6				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	11.D	0.07	0.08	87.8		40-140
4-Terphenyl-d14	11.D	0.073	0.08	91.2		40-140
Nitrobenzene-d5	11.D	0.077	0.08	96.1		40-140

18CPTMW08SW_060524

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24060293-03	Groundwater	06/19/24 16:23	%REC	1
Instrument ID	SV6				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	12.D	0.067	0.08	83.6		40-140
4-Terphenyl-d14	12.D	0.07	0.08	87.3		40-140
Nitrobenzene-d5	12.D	0.075	0.08	93.9		40-140

18CPTMW03SW_060524

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24060293-04	Groundwater	06/19/24 16:41	%REC	1
Instrument ID	SV6				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	13.D	0.068	0.08	85.3		40-140
4-Terphenyl-d14	13.D	0.069	0.08	86.5		40-140
Nitrobenzene-d5	13.D	0.072	0.08	90.1		40-140

Form 2 - System Monitoring Compound Recovery

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
Workorder: HS24060293

Semi-Volatiles by Semivolatiles SIM

RUNID: SV-6-469928

18CPTMW022DW_060524

Matrix	Analysis Date	Conc Units	Dilution
Groundwater	06/19/24 16:58	%REC	1

Lab Sample ID: HS24060293-05
Instrument ID: SV6

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	14.D	0.069	0.08	86.1		40-140
4-Terphenyl-d14	14.D	0.075	0.08	94.0		40-140
Nitrobenzene-d5	14.D	0.072	0.08	90.5		40-140

18CPTMW022R_060524

Matrix	Analysis Date	Conc Units	Dilution
Groundwater	06/19/24 17:16	%REC	1

Lab Sample ID: HS24060293-06
Instrument ID: SV6

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	15.D	0.068	0.08	84.7		40-140
4-Terphenyl-d14	15.D	0.078	0.08	97.3		40-140
Nitrobenzene-d5	15.D	0.079	0.08	98.6		40-140

LCS-213147

Matrix	Analysis Date	Conc Units	Dilution
Aqueous	06/19/24 15:14	%REC	1

Lab Sample ID: LCS-213147
Instrument ID: SV6

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	08.D	0.0825	0.08	103		40-140
4-Terphenyl-d14	08.D	0.08441	0.08	106		40-140
Nitrobenzene-d5	08.D	0.08209	0.08	103		40-140

LCSD-213147

Matrix	Analysis Date	Conc Units	Dilution
Aqueous	06/19/24 15:31	%REC	1

Lab Sample ID: LCSD-213147
Instrument ID: SV6

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	09.D	0.0831	0.08	104		40-140
4-Terphenyl-d14	09.D	0.08584	0.08	107		40-140
Nitrobenzene-d5	09.D	0.07788	0.08	97.4		40-140

Form 2 - System Monitoring Compound Recovery

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	LHAAP Site 18/24	HS24060293	

Semi-Volatiles by Semivolatiles SIM

RUNID SV-6-469928

MBLK-213147

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	MBLK-213147	Aqueous	06/19/24 14:56	%REC	1
Instrument ID	SV6				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	07.D	0.06583	0.08	82.3		40-140
4-Terphenyl-d14	07.D	0.06525	0.08	81.6		40-140
Nitrobenzene-d5	07.D	0.06051	0.08	75.6		40-140

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Form 3B

Laboratory Control Sample Recovery

EPA 3510

Workorder

HS24060293

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 18/24

07/17/2024

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Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 18/24

Workorder HS24060293

EPA 3510

SAMPLENUM LCS-213147

SV-6_469928				LCS-213147			LCSD-213147					
Spike Matrix	Aqueous	Result Units	ug/L	Run Date	06/19/24		Run Date	06/19/24				
Prep Date	06/07/24	Analysis Batch	213147	Run Time	15:14		Run Time	15:31				
Prep Method	SW3510	Prep Batch	213147	Prep Amt	1000 mL		Prep Amt	1000 mL				

Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q	LCSD Result	%R	Q	RPD Limit	RPD	Q
1,4-Dioxane	40-140	0.08	0.07868	98		0.07559	94		20	4	

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Form 4

Method Blank Summary

EPA 3510

Workorder

HS24060293

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 18/24

07/17/2024

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Form 4 - Method Blank Summary

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
Workorder: HS24060293

EPA 3510

METHOD BLANK	Prep Date	Prep Batch	Matrix	Analysis Date	Analysis Batch	Inst ID
MBLK-213147	06/07/24	213147	Aqueous	06/19/24 14:56	213147	SV6

Client Sample ID	Lab Sample ID	Type	Analysis Date	Analysis Batch	Inst ID	FileID
LCS-213147	LCS-213147	LCS	06/19/24 15:14	213147	SV6	08.D
LCSD-213147	LCSD-213147	LCSD	06/19/24 15:31	213147	SV6	09.D
MW5_060524	HS24060293-01	SAMP	06/19/24 15:49	213147	SV6	10.D
18CPTMW08DW_060524	HS24060293-02	SAMP	06/19/24 16:06	213147	SV6	11.D
18CPTMW08SW_060524	HS24060293-03	SAMP	06/19/24 16:23	213147	SV6	12.D
18CPTMW03SW_060524	HS24060293-04	SAMP	06/19/24 16:41	213147	SV6	13.D
18CPTMW022DW_060524	HS24060293-05	SAMP	06/19/24 16:58	213147	SV6	14.D
18CPTMW022R_060524	HS24060293-06	SAMP	06/19/24 17:16	213147	SV6	15.D

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Form 5

Instrument Performance Check

Semi-Volatiles by Semivolatiles SIM

Workorder

HS24060293

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 18/24

07/17/2024

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FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDGA71345

Lab File ID: 01 BFB Injection Date: 06/19/24

Instrument ID: SV6 BFB Injection Time: 1159

GC Column: DB-5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	23.1
68	Less than 2.0% of mass 69	0.5 (1.8)1
69	Mass 69 relative abundance	28.6
70	Less than 2.0% of mass 69	0.2 (0.6)1
127	10.0 - 80.0% of mass 198	36.7
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	29.6
365	1.0 - 100.0% of mass 198	3.6
441	Present, but less than mass 443	20.8
442	50.0 - 150.0% of mass 198	145.0
443	15.0 - 24.0% of mass 442	28.2 (19.4)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	14DX-0.08	14DX-0.08	04	06/19/24	1327
02		MBLK-213147	07	06/19/24	1456
03		LCS-213147	08	06/19/24	1514
04		LCSD-213147	09	06/19/24	1531
05		HS24060293-01	10	06/19/24	1549
06		HS24060293-02	11	06/19/24	1606
07		HS24060293-03	12	06/19/24	1623
08		HS24060293-04	13	06/19/24	1641
09		HS24060293-05	14	06/19/24	1658
10		HS24060293-06	15	06/19/24	1716
11	14DX-0.08	14DX-0.08	16	06/19/24	1733
12					
13					
14					
15					
16					
17					
18					

FORM V SV

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDGA80227

Lab File ID: 01 BFB Injection Date: 04/18/24

Instrument ID: SV6 BFB Injection Time: 1039

GC Column: DB-5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	23.6
68	Less than 2.0% of mass 69	0.5 (1.8)1
69	Mass 69 relative abundance	28.8
70	Less than 2.0% of mass 69	0.2 (0.5)1
127	10.0 - 80.0% of mass 198	39.7
197	Less than 2.0% of mass 198	0.4
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	30.4
365	1.0 - 100.0% of mass 198	4.0
441	Present, but less than mass 443	20.5
442	50.0 - 150.0% of mass 198	139.9
443	15.0 - 24.0% of mass 442	27.6 (19.7)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SLSTD-2.5	SLSTD-2.5	02	04/18/24	1051
02	14DX-0.08	14DX-0.08	03A	04/18/24	1224
03		14DX-0.01	04	04/18/24	1249
04		14DX-0.03	05	04/18/24	1307
05		14DX-0.05	06	04/18/24	1325
06		14DX-0.10	07	04/18/24	1342
07		14DX-0.15	08	04/18/24	1400
08		14DX-0.20	09	04/18/24	1418
09		14DX-0.50	10	04/18/24	1435
10	14DX ICV-0.08	14DX ICV-0.08	11	04/18/24	1453
11					
12					
13					
14					
15					
16					
17					
18					

FORM V SV

Form 5 - Instrument Performance Check

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 18/24

Workorder **HS24060293**

Semi-Volatiles by Semivolatiles SIM

RUNID SV-6-469928

Tune File 01.D 06/19/24 6/19/2024

m / e	Ion Abundance Criterion	%RA
51	10.0 - 80.0% of mass 198	23.1 (23.1)
68	Less than 2.0% of mass 69	0.5 (1.79) 1
69	Mass 69 RA	28.6 (28.6)
70	Less than 2.0% of mass 69	0.2 (0.617) 1
127	10.0 - 80.0% of mass 198	36.7 (36.7)
197	Less than 2.0% of mass 198	0 (0)
198	Base peak, 100% RA	100 (69)
199	5.0 - 9.0% of mass 198	6.7 (6.66)
275	10.0 - 60.0% of mass 198	29.6 (29.6)
365	Greater than 1.0% of mass 198	3.6 (3.56)
441	Present, but < 24.0% of mass 442	20.8 (73.8)
442	greater than 50.0% of mass 198	145 (145)
443	15.0 - 24.0% of mass 442	28.2 (19.4) 2

%RA - Percent Relative Abundance

This check applies to the following analyses

	Lab Samp ID	Type	Date Analyzed	Lab File ID	Sample ID
1	14DX-0.08	CCV	6/19/2024	04	14DX-0.08
2	MBLK-213147	MBLK	6/19/2024	07	MBLK-213147
3	LCS-213147	LCS	6/19/2024	08	LCS-213147
4	LCSD-213147	LCSD	6/19/2024	09	LCSD-213147
5	HS24060293-	SAMP	6/19/2024	10	MW5_060524
6	HS24060293-	SAMP	6/19/2024	11	18CPTMW08DW_060524
7	HS24060293-	SAMP	6/19/2024	12	18CPTMW08SW_060524
8	HS24060293-	SAMP	6/19/2024	13	18CPTMW03SW_060524
9	HS24060293-	SAMP	6/19/2024	14	18CPTMW022DW_060524
10	HS24060293-	SAMP	6/19/2024	15	18CPTMW022R_060524
11	14DX-0.08	CCV	6/19/2024	16	14DX-0.08

Report Date : 06-Jun-2024 14:30 Page 1

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 10-MAR-2022 10:25
End Cal Date : 18-APR-2024 14:35
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Last Edit : 06-Jun-2024 11:07 SV6.i
Curve Type : Average

Calibration File Names:
Level 1: \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Level 2: \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Level 3: \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Level 4: \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Level 5: \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Level 6: \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Level 7: \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Level 8: \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D

Compound	0.01000 Level 1 / 0.20000 Level 7	0.03000 Level 2 / 0.50000 Level 8	0.05000 Level 3	0.08000 Level 4	0.10000 Level 5	0.15000 Level 6	RRF	% RSD
1 1,4-Dioxane	0.26786 / 0.21892	0.20193 / 0.19957	0.21510	0.19340	0.20406	0.21271	0.21419	10.884
$ 9 2-Fluorophenol	##### / #####	##### / #####	#####	#####	#####	#####	#####	#####
$ 13 Phenol-d6	##### / #####	##### / #####	#####	#####	#####	#####	#####	#####

$ 33 Nitrobenzene-d5	0.25417	0.27709	0.33446	0.25539	0.31770	0.31230		
	0.32399	0.32657					0.30021	10.938
$ 69 2-Fluorobiphenyl	1.58567	1.48291	1.52552	1.25243	1.62605	1.59900		
	1.54935	1.60832					1.52866	7.930
$ 105 2,4,6-Tribromophenol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
$ 158 4-Terphenyl-d14	2.22448	1.99483	2.00359	1.46918	2.10278	2.04892		
	2.19122	2.26244					2.03718	12.300

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Form 6I

Initial Calibration Verification (ICV)

Semi-Volatiles by Semivolatiles SIM

Workorder

HS24060293

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 18/24

07/17/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 18/24

Workorder HS24060293

RunID 11.D

Semi-Volatiles by Semivolatiles SIM

Sample Matrix LIQUID
Lab Smp Id PAHSIM ICV-0.08
Data Type MS DATA
File ID 11.D

Fraction SV
Client Smp ID PAHSIM ICV-0.08
SampleType METHSPIKE
Inj Date 12-DEC-2023 1619

Compound	CONC Added	CONC Recovered	% Recovered	Limits	Q
Naphthalene	0.080	0.081	101	85-115	
2-Methylnaphthalene	0.080	0.080	99.6	85-115	
1-Methylnaphthalene	0.080	0.079	98.9	85-115	
Acenaphthylene	0.080	0.077	96.6	85-115	
Acenaphthene	0.080	0.078	98.1	85-115	
Dibenzofuran	0.080	0.078	97.4	85-115	
Fluorene	0.080	0.077	96.3	85-115	
Phenanthrene	0.080	0.078	97.6	85-115	
Anthracene	0.080	0.078	97.4	85-115	
Fluoranthene	0.080	0.076	95.2	85-115	
Pyrene	0.080	0.081	101	85-115	
Benzo(a)Anthracene	0.080	0.080	101	85-115	
Chrysene	0.080	0.082	102	85-115	
Benzo(b)fluoranthene	0.080	0.080	99.8	85-115	
Benzo(k)fluoranthene	0.080	0.078	97.0	85-115	
Benzo(a)pyrene	0.080	0.076	94.8	85-115	
Indeno(1,2,3-cd)pyrene	0.080	0.071	88.6	85-115	
Dibenzo(a,h)anthracene	0.080	0.071	88.7	85-115	
Benzo(g,h,i)perylene	0.080	0.071	89.0	85-115	
Nitrobenzene-d5	0.080	0.078	97.7	40-140	
2-Fluorobiphenyl	0.080	0.077	96.8	40-140	
4-Terphenyl-d14	0.080	0.072	90.3	40-140	

FORM 3
WATER SEMIVOLATILE METHOD SPIKE RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDGA71345

Matrix Spike - Sample No.: 14DX ICV-0.08

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	% REC #	QC. LIMITS REC.
1,4-Dioxane	0.08000	0.07572	95	40-140

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM III SV

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Form 7

Continuing Calibration Verification (CCV)

Semi-Volatiles by Semivolatiles SIM

Workorder

HS24060293

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 18/24

07/17/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 18/24

Workorder HS24060293

RunID 04.D

Semi-Volatiles by Semivolatiles SIM

Instrument ID SV6.i
Lab File ID 04.D
Analysis Type WATER
Lab Sample ID 14DX-0.08

Injection Date 19-JUN-2024 1327
ICAL Date(s) 10-MAR-2022, 18-APR-2024
ICAL Times 10:25, 14:35
Quant Type ISTD

Compound	RRF / Conc	RF0.080	Min RRF	%D / %DRIFT	Max %D / %DRIFT	CURVE TYPE	Q
33 Nitrobenzene-d5	0.300	0.289	0.010	-3.726	20.0	Averaged	
69 2-Fluorobiphenyl	1.53	1.49	0.010	-2.613	20.0	Averaged	
158 4-Terphenyl-d14	2.04	1.70	0.010	-16.684	20.0	Averaged	
1,4-Dioxane	0.214	0.174	0.010	-18.978	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 18/24

Workorder HS24060293

RunID 16.D

Semi-Volatiles by Semivolatiles SIM

Instrument ID SV6.i
Lab File ID 16.D
Analysis Type WATER
Lab Sample ID 14DX-0.08

Injection Date 19-JUN-2024 1733
ICAL Date(s) 10-MAR-2022, 18-APR-2024
ICAL Times 10:25, 14:35
Quant Type ISTD

Compound	RRF / Conc	RF0.080	Min RRF	%D / %DRIFT	Max %D / %DRIFT	CURVE TYPE	Q
33 Nitrobenzene-d5	0.300	0.292	0.010	-2.874	20.0	Averaged	
69 2-Fluorobiphenyl	1.53	1.47	0.010	-3.878	20.0	Averaged	
158 4-Terphenyl-d14	2.04	1.65	0.010	-19.184	20.0	Averaged	
1,4-Dioxane	0.214	0.196	0.010	-8.261	20.0	Averaged	

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDGA71345

Lab File ID (Standard): 04 Date Analyzed: 06/19/24

Instrument ID: SV6 Time Analyzed: 1327

GC Column: RTX-5SIL MS ID: 0.28 (mm) Heated Purge: (Y/N) N

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	2593	2.19	8265	3.18	4917	4.78
	UPPER LIMIT	5186	2.69	16530	3.68	9834	5.28
	LOWER LIMIT	1297	1.69	4133	2.68	2459	4.28
	CLIENT SAMPLE NO.						
01	MBLK-213147	2551	2.19	8158	3.18	4867	4.78
02	LCS-213147	2154	2.19	6671	3.18	4021	4.78
03	LCSD-213147	2211	2.19	6920	3.18	4076	4.78
04	HS24060293-01	1952	2.19	5895	3.18	3575	4.78
05	HS24060293-02	1631	2.18	5032	3.18	3025	4.78
06	HS24060293-03	1949	2.19	5936	3.18	3593	4.78
07	HS24060293-04	2329	2.19	7281	3.18	4251	4.78
08	HS24060293-05	2006	2.18	6200	3.18	3642	4.78
09	HS24060293-06	1949	2.18	5997	3.18	3548	4.78
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDGA71345

Lab File ID (Standard): 04 Date Analyzed: 06/19/24

Instrument ID: SV6 Time Analyzed: 1327

GC Column: RTX-5SIL MS ID: 0.28 (mm) Heated Purge: (Y/N) N

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
	12 HOUR STD	9268	6.18	7090	8.73	8055	10.37
	UPPER LIMIT	18536	6.68	14180	9.23	16110	10.87
	LOWER LIMIT	4634	5.68	3545	8.23	4028	9.87
	CLIENT SAMPLE NO.						
01	MBLK-213147	9238	6.18	8140	8.73	7922	10.37
02	LCS-213147	7555	6.18	6422	8.73	6346	10.37
03	LCSD-213147	7663	6.18	6554	8.73	6513	10.37
04	HS24060293-01	6918	6.18	6069	8.73	6082	10.37
05	HS24060293-02	5783	6.18	5050	8.73	5196	10.37
06	HS24060293-03	7109	6.18	6280	8.73	6467	10.37
07	HS24060293-04	8343	6.18	7527	8.73	7457	10.37
08	HS24060293-05	6910	6.18	5903	8.73	6092	10.37
09	HS24060293-06	6817	6.18	5951	8.73	6078	10.37
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM VIII SV

Prep Batch Report

Batch ID:	213147	**Init Sample Weight / Volume:**	1000
Prep Code:	3510_B_SIM	**Final Sample Volume:**	1
Start Date:	07 Jun 2024 07:00 AM	**Original Factor:**	0.001
End Date:	07 Jun 2024 09:30 AM	**Prep Unit Factor:**	1
Technician:	Todi Lala	**Prep Unit:**	mL

Sample ID	Fraction	Matrix	pH	Initial Weight / Volume	Final Volume	Prep Factor	Spike Factor	Comments
HS24060293-01	C	Groundwater	7	1000	1	0.001	1	ph adj1/13clno
HS24060293-02	B	Groundwater	9	1000	1	0.001	1	ph adj1/13clno
HS24060293-03	C	Groundwater	7	1000	1	0.001	1	ph adj1/13clno
HS24060293-04	D	Groundwater	7	1000	1	0.001	1	ph adj1/13clno
HS24060293-05	D	Groundwater	7	1000	1	0.001	1	ph adj1/13clno
HS24060293-06	D	Groundwater	7	1000	1	0.001	1	ph adj1/13clno
LCS-213147	A		5	1000	1	0.001	1	ph adj1/13clno
LCSD-213147	A		5	1000	1	0.001	1	ph adj1/13clno
MBLK-213147	A		5	1000	1	0.001	1	ph adj1/13clno

Prep Batch Report

Batch ID:	213147	**Init Sample Weight / Volume:**	1000
Prep Code:	3510_B_SIM	**Final Sample Volume:**	1
Start Date:	07 Jun 2024 07:00 AM	**Original Factor:**	0.001
End Date:	07 Jun 2024 09:30 AM	**Prep Unit Factor:**	1
Technician:	Todi Lala	**Prep Unit:**	mL

Stage	Description	Value
3510/3511	Chlorine Strips ID:	3001070211-06
3510_B	pH Paper:	300107092-11
3510_B	Methylene Chloride ID:	300107098-18
3510_B	50% NaoH ID:	300107078-21
3510_B	NaoH Volume (mL):	8
3510_B	50:50 Sulfuric Acid ID:	300107095-06
3510_B	Sulfuric Acid Volume (mL):	8ml
3510_B	Syringe ID:	3510-bsim
3510_B	LCS/MS Spike ID:	3231538-11
3510_B	LCS/MS Volume (mL):	1ml
3510_B	LCS/MS Spike #2 ID (If needed):	3231510-05
3510_B	LCS/MS Spike #2 Volume (mL):	1
3510_B	LCS/MS Spike #3 ID (If needed):	na
3510_B	LCS/MS Spike #3 Volume (mL):	na
3510_B	Sodium Sulfate ID:	3142131-21
3510_B	Glass Wool ID:	300107067-15
3510_B	TurboVap Unit(s):	j (1-6) n (7-9)d()l()
3510_B	TurboVap Temp (C):	39-40
3510_B	TurboVap Pressure (PSI):	9-11
3510_B	Time in TurboVap (Hrs):	1.5 hr
3510_B	Vial Lot:	300107091-08
3510_B	CleanUp Performed:	na
3510_B	Surrogate ID:	320077506
3510_B	Surrogate Volume (mL):	1ml

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Analysis Run Log

Semi-Volatiles by Semivolatiles SIM

Workorder

HS24060293

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 18/24

07/17/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

SV06 -Logbook

Batch: 60443 **Analyst:** Marco Gutierrez

Date: 06-19-2024 **Reviewer:**

Method: R8270D 14DX/LVI **Laboratory:** Houston

Comments:

#	Samp ID	Type	Analyzed	DF	Init Wt/Vol	Final Vol	File ID	Matrix	Status	pH
1	DFTPP	TUNE	06-19-2024 11:59 am	1.00	0.00 gm	0.00 mL	01.D		Y	NA
2	SLSTD-2.5	CCV	06-19-2024 12:11 pm	1.00	1000.00 mL	1000.00 mL	02.D	Liquid	Y	NA
3	PAHLVI-0.025	CCV	06-19-2024 01:07 pm	1.00	33.00 mL	2000.00 mL	03.D	Liquid	Y	NA
4	14DX-0.08	CCV	06-19-2024 01:27 pm	1.00	1000.00 mL	1000.00 mL	04.D	Liquid	Y	NA
5	SIM CCB	SAMP	06-19-2024 02:00 pm	1.00	1000.00 mL	1000.00 mL	05.D	Liquid	Y	NA
6	HS24040666-01	SAMP	06-19-2024 02:18 pm	1.00	33.00 mL	2000.00 mL	06.D	Liquid	Y	NA
7	MBLK-213147	SAMP	06-19-2024 02:56 pm	1.00	1000.00 mL	1000.00 mL	07.D	Liquid	Y	NA
8	LCS-213147	SAMP	06-19-2024 03:14 pm	1.00	1000.00 mL	1000.00 mL	08.D	Liquid	Y	NA
9	LCSD-213147	SAMP	06-19-2024 03:31 pm	1.00	1000.00 mL	1000.00 mL	09.D	Liquid	Y	NA
10	HS24060293-01	SAMP	06-19-2024 03:49 pm	1.00	1000.00 mL	1000.00 mL	10.D	Liquid	Y	NA
11	HS24060293-02	SAMP	06-19-2024 04:06 pm	1.00	1000.00 mL	1000.00 mL	11.D	Liquid	Y	NA
12	HS24060293-03	SAMP	06-19-2024 04:23 pm	1.00	1000.00 mL	1000.00 mL	12.D	Liquid	Y	NA
13	HS24060293-04	SAMP	06-19-2024 04:41 pm	1.00	1000.00 mL	1000.00 mL	13.D	Liquid	Y	NA
14	HS24060293-05	SAMP	06-19-2024 04:58 pm	1.00	1000.00 mL	1000.00 mL	14.D	Liquid	Y	NA
15	HS24060293-06	SAMP	06-19-2024 05:16 pm	1.00	1000.00 mL	1000.00 mL	15.D	Liquid	Y	NA
16	14DX-0.08	SAMP	06-19-2024 05:33 pm	1.00	1000.00 mL	1000.00 mL	16.D	Liquid	Y	NA
17	SIM CCB	SAMP	06-19-2024 05:51 pm	1.00	1000.00 mL	1000.00 mL	17.D	Liquid	Y	NA
18	HS24060313-13X10KRR	SAMP	06-19-2024 06:08 pm	1.00	33.00 mL	2000.00 mL	18.D	Liquid	Y	NA
19	MBLK-213147	SAMP	06-19-2024 06:28 pm	1.00	33.00 mL	2000.00 mL	19.D	Liquid	Y	NA
20	LCS-213147	SAMP	06-19-2024 06:49 pm	1.00	33.00 mL	2000.00 mL	20.D	Liquid	Y	NA
21	LCSD-213147	SAMP	06-19-2024 07:09 pm	1.00	33.00 mL	2000.00 mL	21.D	Liquid	Y	NA
22	HS24060771-01	SAMP	06-19-2024 07:29 pm	1.00	33.00 mL	2000.00 mL	22.D	Liquid	Y	NA
23	HS24060771-02	SAMP	06-19-2024 07:49 pm	1.00	33.00 mL	2000.00 mL	23.D	Liquid	Y	NA
24	HS24060771-03	SAMP	06-19-2024 08:09 pm	1.00	33.00 mL	2000.00 mL	24.D	Liquid	Y	NA
25	HS24060771-04	SAMP	06-19-2024 08:29 pm	1.00	33.00 mL	2000.00 mL	25.D	Liquid	Y	NA
26	HS24060771-06	SAMP	06-19-2024 09:10 pm	1.00	33.00 mL	2000.00 mL	27.D	Liquid	Y	NA
27	HS24060771-07	SAMP	06-19-2024 09:30 pm	1.00	33.00 mL	2000.00 mL	28.D	Liquid	Y	NA
28	HS24060771-08	SAMP	06-19-2024 09:50 pm	1.00	33.00 mL	2000.00 mL	29.D	Liquid	Y	NA
29	HS24060771-09	SAMP	06-19-2024 10:11 pm	1.00	33.00 mL	2000.00 mL	30.D	Liquid	Y	NA
30	HS24060908-15	SAMP	06-19-2024 10:31 pm	1.00	33.00 mL	2000.00 mL	31.D	Liquid	Y	NA
31	HS24060967-01	SAMP	06-19-2024 10:51 pm	1.00	33.00 mL	2000.00 mL	32.D	Liquid	Y	NA
32	HS24060967-02	SAMP	06-19-2024 11:11 pm	1.00	33.00 mL	2000.00 mL	33.D	Liquid	Y	NA
33	MBLK-213750	SAMP	06-19-2024 11:32 pm	1.00	33.00 mL	2000.00 mL	34.D	Liquid	Y	NA
34	LCS-213750	SAMP	06-19-2024 11:52 pm	1.00	33.00 mL	2000.00 mL	35.D	Liquid	Y	NA
35	LCSD-213750	SAMP	06-20-2024 12:12 am	1.00	33.00 mL	2000.00 mL	36.D	Liquid	Y	NA
36	HS24060815-01	SAMP	06-20-2024 12:32 am	1.00	33.00 mL	2000.00 mL	37.D	Liquid	Y	NA
37	HS24061064-03	SAMP	06-20-2024 12:52 am	1.00	33.00 mL	2000.00 mL	38.D	Liquid	Y	NA

SV06 -Logbook

Batch: 59721 **Analyst:** Marco Gutierrez

Date: 04-18-2024 **Reviewer:**

Method: R8270D 14dx ICAL **Laboratory:** Houston

Comments:

#	Samp ID	Type	Analyzed	DF	Init Wt/Vol	Final Vol	File ID	Matrix	Status	pH
1	DFTPP	TUNE	04-18-2024 10:39 am	1.00	0.00 gm	0.00 mL	01.D		Y	NA
2	SLSTD-2.5	CCV	04-18-2024 10:51 am	1.00	1000.00 mL	1000.00 mL	02.D	Liquid	Y	NA
3	14DX-0.08	ICAL4	04-18-2024 12:24 pm	1.00	1000.00 mL	1000.00 mL	03A.D	Liquid	Y	NA
4	14DX-0.01	ICAL1	04-18-2024 12:49 pm	1.00	1000.00 mL	1000.00 mL	04.D	Liquid	Y	NA
5	14DX-0.03	ICAL2	04-18-2024 01:07 pm	1.00	1000.00 mL	1000.00 mL	05.D	Liquid	Y	NA
6	14DX-0.05	ICAL3	04-18-2024 01:25 pm	1.00	1000.00 mL	1000.00 mL	06.D	Liquid	Y	NA
7	14DX-0.10	ICAL5	04-18-2024 01:42 pm	1.00	1000.00 mL	1000.00 mL	07.D	Liquid	Y	NA
8	14DX-0.15	ICAL6	04-18-2024 02:00 pm	1.00	1000.00 mL	1000.00 mL	08.D	Liquid	Y	NA
9	14DX-0.20	ICAL7	04-18-2024 02:18 pm	1.00	1000.00 mL	1000.00 mL	09.D	Liquid	Y	NA
10	14DX-0.50	ICAL8	04-18-2024 02:35 pm	1.00	1000.00 mL	1000.00 mL	10.D	Liquid	Y	NA
11	14DX ICV-0.08	ICV	04-18-2024 02:53 pm	1.00	1000.00 mL	1000.00 mL	11.D	Liquid	Y	NA
12	SIM CCB	SAMP	04-18-2024 04:10 pm	1.00	1000.00 mL	1000.00 mL	12.D	Liquid	Y	NA
13	MBLK-210508	SAMP	04-18-2024 04:28 pm	1.00	1000.00 mL	1000.00 mL	13.D	Liquid	Y	NA
14	LCS-210508	SAMP	04-18-2024 04:45 pm	1.00	1000.00 mL	1000.00 mL	14.D	Liquid	Y	NA
15	LCSD-210508	SAMP	04-18-2024 05:03 pm	1.00	1000.00 mL	1000.00 mL	15.D	Liquid	Y	NA
16	HS24040786-01	SAMP	04-18-2024 05:21 pm	1.00	1000.00 mL	1000.00 mL	16.D	Liquid	Y	NA
17	14DX-0.08	SAMP	04-18-2024 05:38 pm	1.00	1000.00 mL	1000.00 mL	17.D	Liquid	Y	NA
18	SIM CCB	SAMP	04-18-2024 05:56 pm	1.00	1000.00 mL	1000.00 mL	18.D	Liquid	Y	NA
19	HS24040667-03	SAMP	04-18-2024 06:14 pm	1.00	1000.00 mL	1000.00 mL	19.D	Liquid	Y	NA
20	HS24040816-04	SAMP	04-18-2024 06:31 pm	1.00	1000.00 mL	1000.00 mL	20.D	Liquid	Y	NA
21	HS24040816-05	SAMP	04-18-2024 06:49 pm	1.00	1000.00 mL	1000.00 mL	21.D	Liquid	Y	NA
22	HS24040816-06	SAMP	04-18-2024 07:06 pm	1.00	1000.00 mL	1000.00 mL	22.D	Liquid	Y	NA
23	HS24041063-01	SAMP	04-18-2024 07:24 pm	1.00	1000.00 mL	1000.00 mL	23.D	Liquid	Y	NA
24	HS24041063-02	SAMP	04-18-2024 07:41 pm	1.00	1000.00 mL	1000.00 mL	24.D	Liquid	Y	NA
25	HS24041063-03	SAMP	04-18-2024 07:59 pm	1.00	1000.00 mL	1000.00 mL	25.D	Liquid	Y	NA

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 18/24

Workorder **HS24060293**

Semi-Volatiles by Semivolatiles SIM

RUNID SV-6-454425

Run ID SV-6_454425 **Start Date** 12/12/23 **EndDate** 12/12/23

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
13:20	PAHSIM-0.08	ICAL4	PAHSIM-0.08	03.D	12/12/23	1
13:58	PAHSIM-0.010	ICAL1	PAHSIM-0.010	04.D	12/12/23	1
14:18	PAHSIM-0.025	ICAL2	PAHSIM-0.025	05.D	12/12/23	1
14:39	PAHSIM-0.050	ICAL3	PAHSIM-0.050	06.D	12/12/23	1
14:59	PAHSIM-0.10	ICAL5	PAHSIM-0.10	07.D	12/12/23	1
15:19	PAHSIM-0.15	ICAL6	PAHSIM-0.15	08.D	12/12/23	1
15:39	PAHSIM-0.20	ICAL7	PAHSIM-0.20	09.D	12/12/23	1
15:59	PAHSIM-0.50	ICAL8	PAHSIM-0.50	10.D	12/12/23	1
16:19	PAHSIM ICV-0.08	ICV	PAHSIM ICV-0.08	11.D	12/12/23	1

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 18/24

Workorder **HS24060293**

Semi-Volatiles by Semivolatiles SIM

RUNID SV-6-469928

Run ID SV-6_469928 **Start Date** 06/19/24 **EndDate** 06/19/24

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
13:27	14DX-0.08	CCV	14DX-0.08	04.D	06/19/24	1
14:56	MBLK-213147	MBLK	MBLK-213147	07.D	06/19/24	1
15:14	LCS-213147	LCS	LCS-213147	08.D	06/19/24	1
15:31	LCSD-213147	LCSD	LCSD-213147	09.D	06/19/24	1
15:49	HS24060293-01	SAMP	MW5_060524	10.D	06/19/24	1
16:06	HS24060293-02	SAMP	18CPTMW08DW_0605	11.D	06/19/24	1
16:23	HS24060293-03	SAMP	18CPTMW08SW_0605	12.D	06/19/24	1
16:41	HS24060293-04	SAMP	18CPTMW03SW_0605	13.D	06/19/24	1
16:58	HS24060293-05	SAMP	18CPTMW022DW_060	14.D	06/19/24	1
17:16	HS24060293-06	SAMP	18CPTMW022R_06052	15.D	06/19/24	1
17:33	14DX-0.08	CCV	14DX-0.08	16.D	06/19/24	1

right solutions.
right partner.

RawData

<textMethods>

Workorder

HS24060293

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 18/24

07/17/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Data File: \\NAHSTWS005\Target\chem\SV6.i\231212.b\01.D Page 1
Report Date: 12-Dec-2023 13:07

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\SV6.i\231212.b\01.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 12-DEC-2023 11:21
Operator : smith Inst ID: SV6.i
Smp Info : DFTPP;DFTPP;3;;DFTPP
Misc Info :
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\231212.b\DFTPP.m
Meth Date : 14-Mar-2023 15:58 Linh.Pham Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: NAHSTW7095

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
5.170	5.571	-0.401	198	128535			0.00- 100.00	77.19
5.170	6.357	-1.187	51	37227			10.00- 80.00	28.96
5.170	6.357	-1.187	68	695			0.00- 2.00	1.72
5.170	6.357	-1.187	69	40344			0.00- 0.00	31.39
5.170	6.357	-1.187	70	154			0.00- 2.00	0.38
5.170	6.357	-1.187	127	51808			10.00- 80.00	40.31
5.170	6.357	-1.187	197	348			0.00- 2.00	0.27
5.170	6.357	-1.187	199	8926			5.00- 9.00	6.94
5.170	6.357	-1.187	275	38772			10.00- 60.00	30.16
5.170	6.357	-1.187	365	5421			1.00- 100.00	4.22
5.170	6.357	-1.187	441	24928			0.01- 99.99	75.16
5.170	6.357	-1.187	442	166528			50.00- 150.00	129.56
5.170	6.357	-1.187	443	33168			15.00- 24.00	19.92

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	28.96
68	Less than 2.00% of mass 69	0.54 (1.72)
69	Mass 69 relative abundance	31.39
70	Less than 2.00% of mass 69	0.12 (0.38)
127	10.00 - 80.00% of mass 198	40.31
197	Less than 2.00% of mass 198	0.27
199	5.00 - 9.00% of mass 198	6.94
275	10.00 - 60.00% of mass 198	30.16
365	1.00 - 100.00% of mass 198	4.22
441	Present, but less than mass 443	19.39
442	50.00 - 150.00% of mass 198	129.56
443	15.00 - 24.00% of mass 442	25.80 (19.92)

Data File: 01.D
Spectrum: Avg. Scans 482-484 (5.17), Background Scan 478 (SUB)
Location of Maximum: 442.00
Number of points: 274

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	120	131.00	305	202.00	53	289.00	125
38.00	426	132.00	120	203.00	985	290.00	64
39.00	2383	134.00	625	204.00	4915	292.00	140
40.00	246	135.00	1577	205.00	8319	293.00	720
50.00	9499	136.00	610	206.00	33976	294.00	158
51.00	37224	137.00	858	207.00	4480	295.00	125
52.00	1897	138.00	157	208.00	1093	296.00	10449
55.00	62	140.00	254	209.00	412	297.00	1409
56.00	1247	141.00	2570	210.00	363	298.00	63
57.00	2784	142.00	909	211.00	1498	301.00	82
58.00	74	143.00	574	212.00	85	302.00	196
61.00	537	144.00	126	215.00	321	303.00	1405
62.00	646	145.00	95	216.00	791	304.00	329
63.00	1641	146.00	478	217.00	9198	308.00	133
64.00	214	147.00	1317	218.00	1108	310.00	217
65.00	840	148.00	3035	219.00	57	313.00	53
68.00	695	149.00	599	221.00	6585	314.00	547
69.00	40344	150.00	57	222.00	1507	315.00	1229
70.00	154	151.00	417	223.00	2225	316.00	610
73.00	313	152.00	159	224.00	19944	317.00	134
74.00	4016	153.00	830	225.00	5040	321.00	402
75.00	6436	154.00	618	226.00	543	322.00	204
76.00	2072	155.00	1506	227.00	8255	323.00	3909
77.00	42464	156.00	2234	228.00	1109	324.00	706
78.00	2822	157.00	458	229.00	1791	327.00	708
79.00	2978	158.00	496	230.00	230	328.00	314
80.00	2258	159.00	473	231.00	734	332.00	297
81.00	3199	160.00	828	232.00	50	333.00	322
82.00	812	161.00	1322	233.00	72	334.00	2484
83.00	675	162.00	355	234.00	604	335.00	620
85.00	598	163.00	70	235.00	542	341.00	526
86.00	801	164.00	101	236.00	358	342.00	55
87.00	397	165.00	967	237.00	582	346.00	737
88.00	136	166.00	946	239.00	350	352.00	1248
91.00	773	167.00	5186	240.00	231	353.00	849
92.00	861	168.00	2322	241.00	507	354.00	1060
93.00	5248	169.00	471	242.00	1123	355.00	192
94.00	361	170.00	133	243.00	1132	359.00	56
95.00	54	171.00	223	244.00	15164	365.00	5421
96.00	228	172.00	470	245.00	2256	366.00	764
97.00	52	173.00	703	246.00	3307	370.00	119
98.00	3962	174.00	1236	247.00	625	371.00	325
99.00	2961	175.00	2246	248.00	133	372.00	2055
100.00	271	176.00	575	249.00	567	373.00	495
101.00	1947	177.00	1080	250.00	55	383.00	527

103.00 636	178.00 385	251.00 136	384.00 143
104.00 1064	179.00 4595	252.00 178	390.00 239
105.00 1247	180.00 3087	253.00 461	391.00 140
106.00 401	181.00 1432	255.00 85760	392.00 131
107.00 14345	182.00 270	256.00 12142	401.00 63
108.00 2330	183.00 60	257.00 889	402.00 854
109.00 516	184.00 317	258.00 4906	403.00 1317
110.00 25816	185.00 2202	259.00 728	404.00 313
111.00 4036	186.00 17000	261.00 69	421.00 1244
112.00 455	187.00 5193	264.00 56	422.00 1147
113.00 111	188.00 489	265.00 1978	423.00 8217
116.00 912	189.00 1170	266.00 301	424.00 1901
117.00 11193	190.00 241	270.00 107	425.00 139
118.00 845	191.00 469	271.00 147	436.00 113
120.00 146	192.00 1363	272.00 196	437.00 291
122.00 898	193.00 1695	273.00 2634	438.00 302
123.00 1495	194.00 304	274.00 6853	439.00 629
124.00 742	195.00 203	275.00 38768	441.00 24928
125.00 670	196.00 3622	276.00 5170	442.00 166528
126.00 113	197.00 348	277.00 2991	443.00 33168
127.00 51808	198.00 128528	278.00 541	444.00 3168
128.00 3942	199.00 8926	283.00 341	445.00 140
129.00 20680	200.00 723	284.00 266	
130.00 1716	201.00 652	285.00 538	

Data File: \\NAHSTWS005\Target\chem\sv6.i\231212.b\01.d

Date : 12-DEC-2023 11:21

Client ID: DFTPP

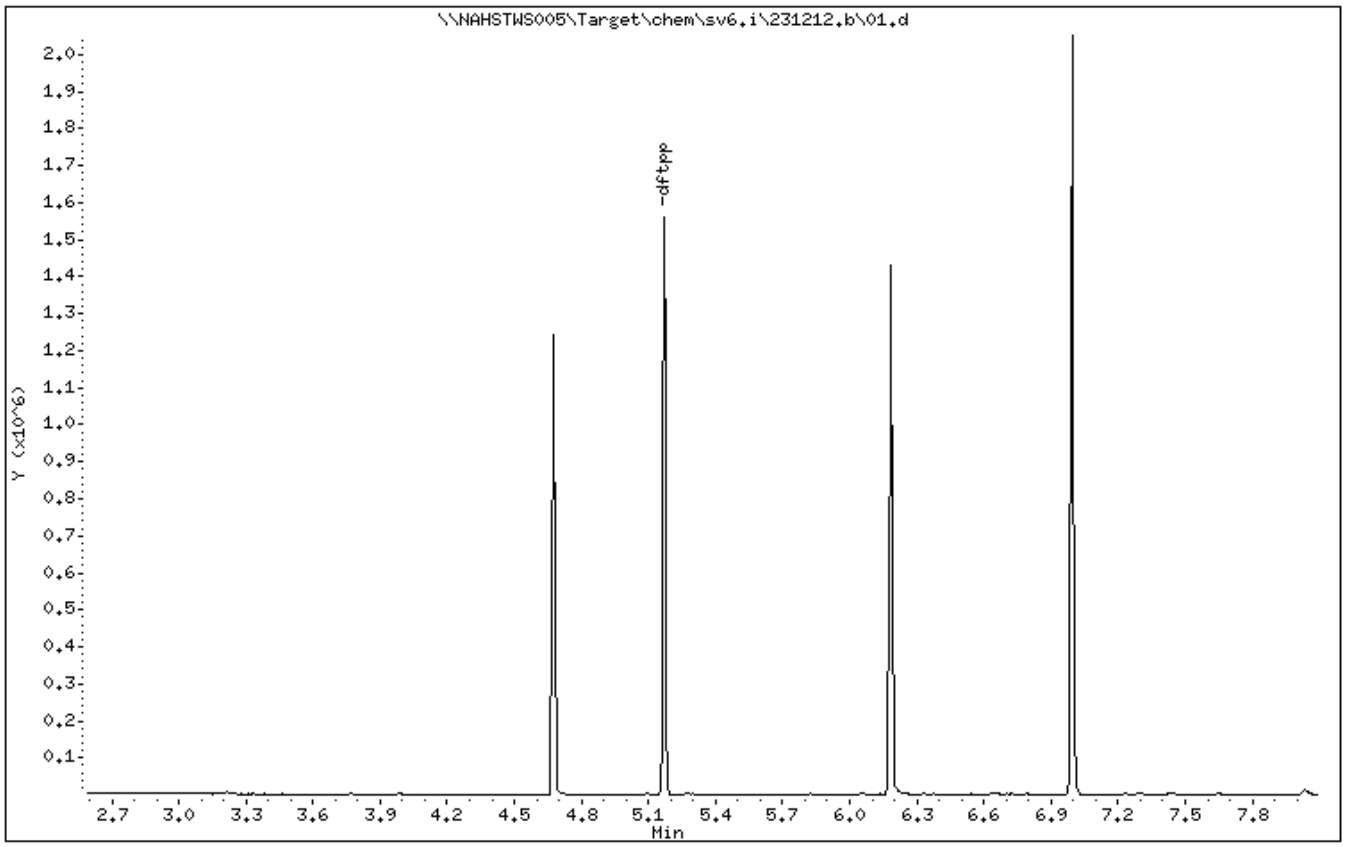
Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS

Column diameter: 0.25



Data File : \\nahstws005\target\chem\sv6.i\231212.b\01.d
Inj Date : 12-DEC-2023 11:21
InstruID : SV6.i
LabSampID : DFTPP

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\SV6.i\231212.b\03.D Page 1
Report Date: 18-Dec-2023 10:17

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\231212.b\03.D
Lab Smp Id: PAHSIM-0.08 Client Smp ID: PAHSIM-0.08
Inj Date : 12-DEC-2023 13:20
Operator : LG Inst ID: SV6.i
Smp Info : PAHSIM-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\231212.b\PAHSIM1.m
Meth Date : 18-Dec-2023 10:17 SV6.i Quant Type: ISTD
Cal Date : 12-DEC-2023 15:59 Cal File: 10.D
Als bottle: 3 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: llpahdbf.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 45 Naphthalene-d8	136	4.386	4.386	(1.000)	28457	0.10000	
$ 33 Nitrobenzene-d5	82	3.746	3.746	(0.854)	6262	0.08000	0.07980(M)
* 86 Acenaphthene-d10	164	6.058	6.058	(1.000)	17141	0.10000	
$ 69 2-Fluorobiphenyl	172	5.413	5.413	(0.894)	21658	0.08000	0.07934
* 126 Phenanthrene-d10	188	7.499	7.499	(1.000)	35822	0.10000	(M)
* 182 Chrysene-d12	240	10.239	10.239	(1.000)	37227	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.078	9.078	(0.887)	29385	0.08000	0.07773
* 198 Perylene-d12	264	12.216	12.216	(1.000)	37882	0.10000	(M)
46 Naphthalene	128	4.407	4.407	(1.005)	24191	0.08000	0.07748
61 2-Methylnaphthalene	142	5.053	5.053	(1.152)	16443	0.08000	0.07875
62 1-Methylnaphthalene	142	5.145	5.145	(1.173)	15196	0.08000	0.07800
83 Acenaphthylene	152	5.910	5.910	(0.976)	25076	0.08000	0.08001
88 Acenaphthene	154	6.080	6.080	(1.004)	15400	0.08000	0.07793
98 Fluorene	166	6.583	6.583	(1.087)	19249	0.08000	0.07923
92 Dibenzofuran	168	6.711	6.711	(1.108)	10259	0.08000	0.08007(M)
128 Phenanthrene	178	7.518	7.518	(1.002)	30497	0.08000	0.07778
130 Anthracene	178	7.568	7.568	(1.009)	29677	0.08000	0.07595
149 Fluoranthene	202	8.676	8.676	(1.157)	37958	0.08000	0.08139
155 Pyrene	202	8.895	8.895	(0.869)	40356	0.08000	0.07456

181 Benzo(a)Anthracene	228	10.224	10.224 (0.999)	38677	0.08000	0.07662
183 Chrysene	228	10.269	10.269 (1.003)	40103	0.08000	0.07127(M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
192 Benzo(b)fluoranthene	252	11.672	11.672	(0.956)	37337	0.08000	0.07940
195 Benzo(k)fluoranthene	252	11.710	11.710	(0.959)	42990	0.08000	0.07555(M)
197 Benzo(a)pyrene	252	12.134	12.134	(0.993)	34743	0.08000	0.07623(MH)
209 Indeno(1,2,3-cd)pyrene	276	13.735	13.735	(1.124)	41965	0.08000	0.07694(M)
210 Dibenzo(a,h)anthracene	278	13.787	13.787	(1.129)	34155	0.08000	0.07540(M)
212 Benzo(g,h,i)perylene	276	14.100	14.100	(1.154)	35700	0.08000	0.07329(M)

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\NAHSTWS005\Target\chem\SV6.i\231212.b\03.D

Date : 12-DEC-2023 13:20

Client ID: PAHSIM-0.08

Instrument: SV6.i

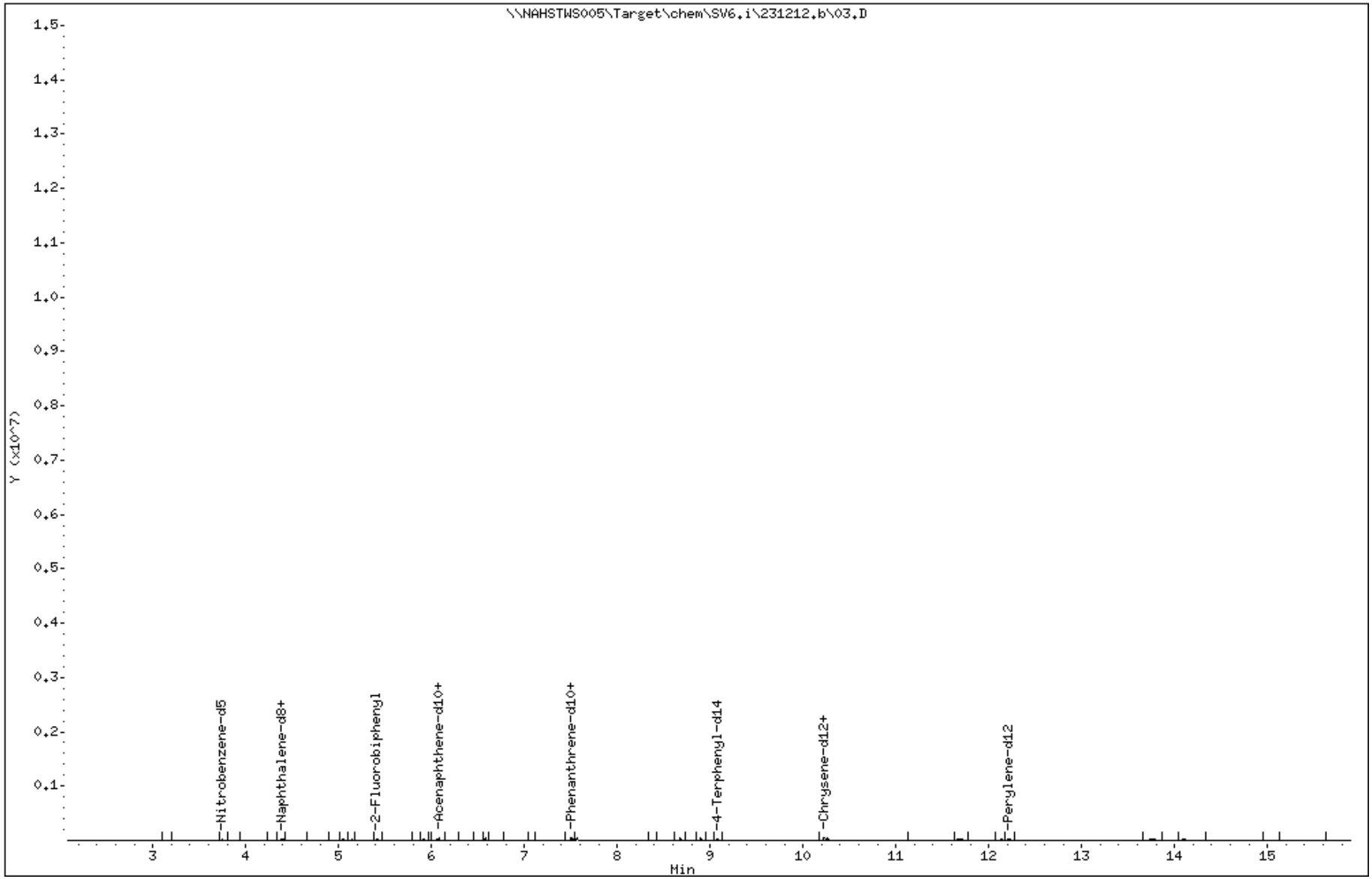
Sample Info: PAHSIM-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



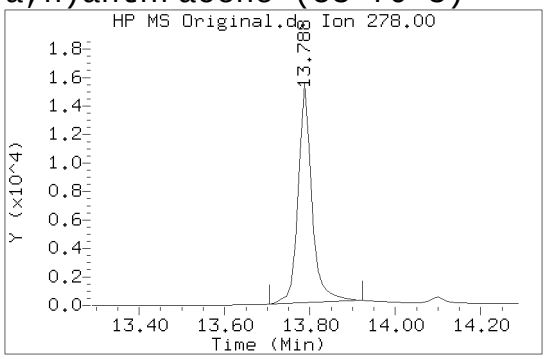
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Inj Date : 12-DEC-2023 13:20
InstruID : SV6.i
LabSampID : PAHSIM-0.08

Dibenzo(a,h)anthracene (53-70-3)

Reason Code:

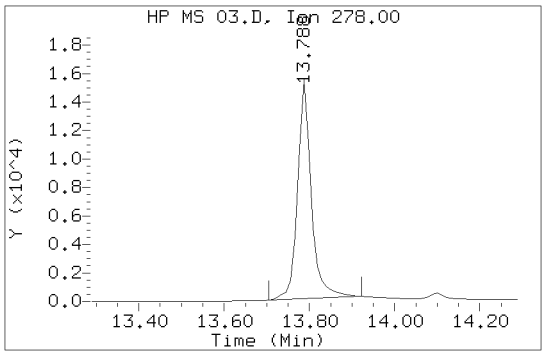
BEFORE

MASS
278
AREA
34155
HEIGHT
15388
18-Dec-2023
10:16
linh
pham



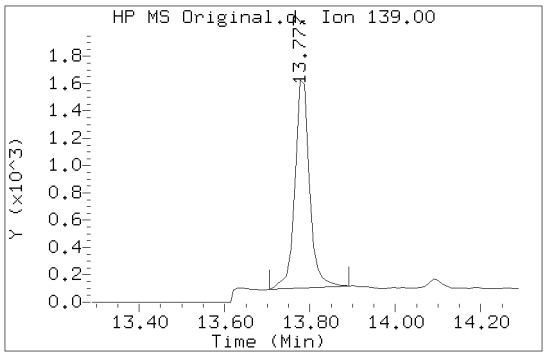
AFTER

MASS
278
AREA
34155
HEIGHT
15388
18-Dec-2023
10:16
linh
pham



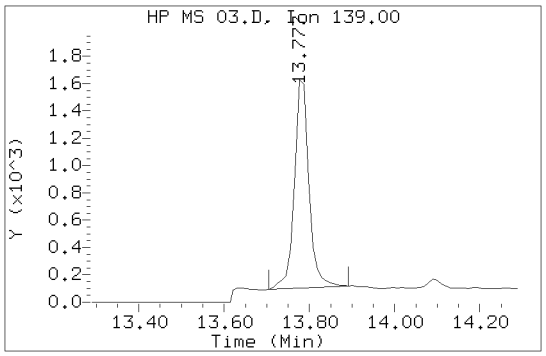
BEFORE

MASS
139
AREA
3617
HEIGHT
1525
18-Dec-2023
10:16
linh
pham



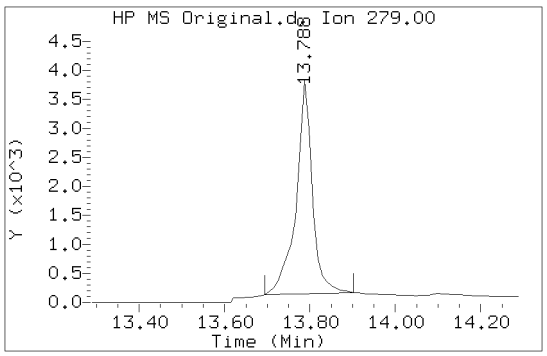
AFTER

MASS
139
AREA
3617
HEIGHT
1525
18-Dec-2023
10:16
linh
pham



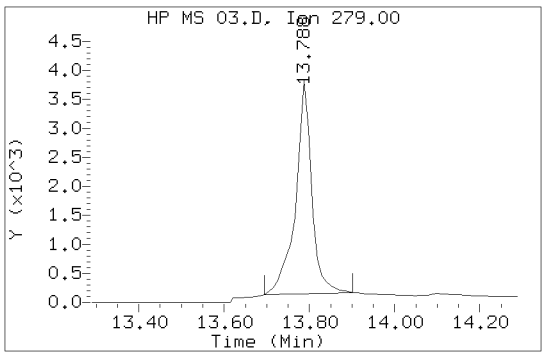
BEFORE

MASS
279
AREA
9681
HEIGHT
3674
18-Dec-2023
10:16
linh
pham



AFTER

MASS
279
AREA
9681
HEIGHT
3674
18-Dec-2023
10:16
linh
pham

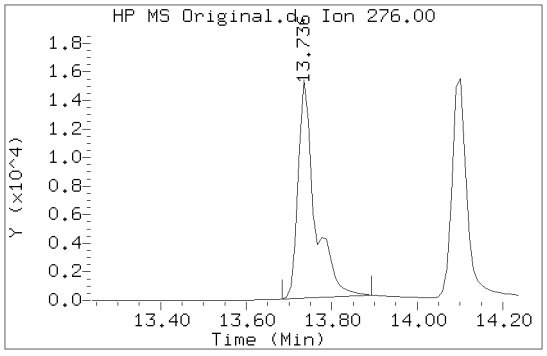


Indeno(1,2,3-cd)pyrene (193-39-5)

Reason Code:

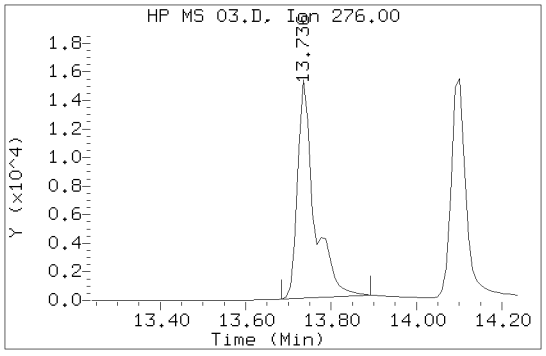
BEFORE

MASS
276
AREA
41965
HEIGHT
15275
18-Dec-2023
10:16
linh
pham



AFTER

MASS
276
AREA
41965
HEIGHT
15275
18-Dec-2023
10:16
linh
pham



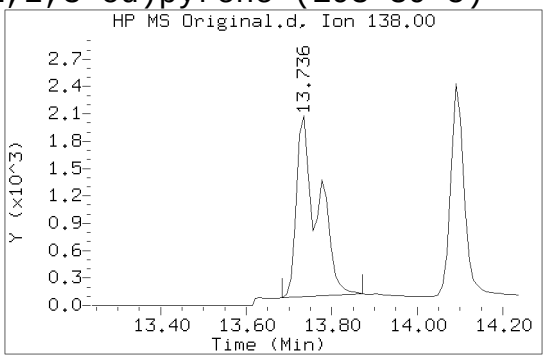
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Inj Date : 12-DEC-2023 13:20
InstruID : SV6.i
LabSampID : PAHSIM-0.08

Indeno(1,2,3-cd)pyrene (193-39-5)

Reason Code:

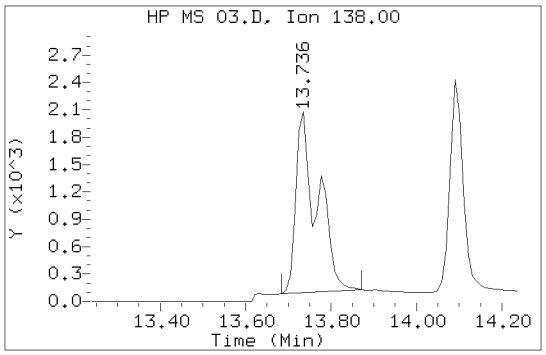
BEFORE

MASS
138
AREA
6883
HEIGHT
1984
18-Dec-2023
10:16
linh
pham



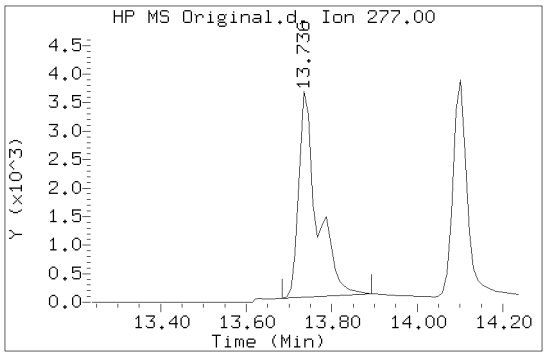
AFTER

MASS
138
AREA
6883
HEIGHT
1984
18-Dec-2023
10:16
linh
pham



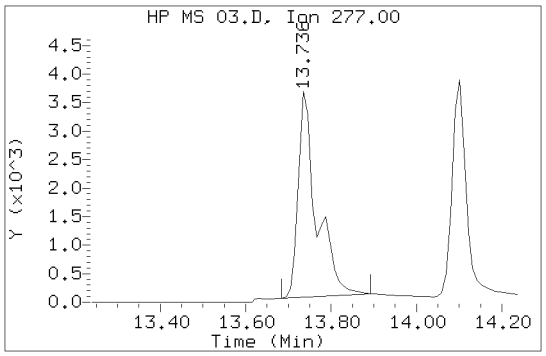
BEFORE

MASS
277
AREA
10813
HEIGHT
3606
18-Dec-2023
10:16
linh
pham



AFTER

MASS
277
AREA
10813
HEIGHT
3606
18-Dec-2023
10:16
linh
pham

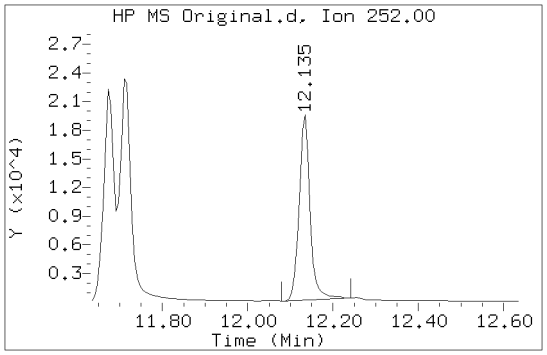


Benzo(a)pyrene (50-32-8)

Reason Code:

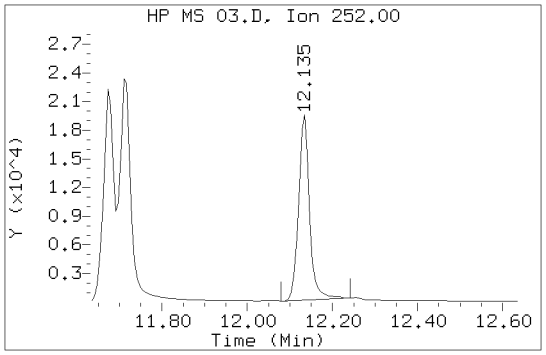
BEFORE

MASS
252
AREA
34743
HEIGHT
19382
18-Dec-2023
10:16
linh
pham



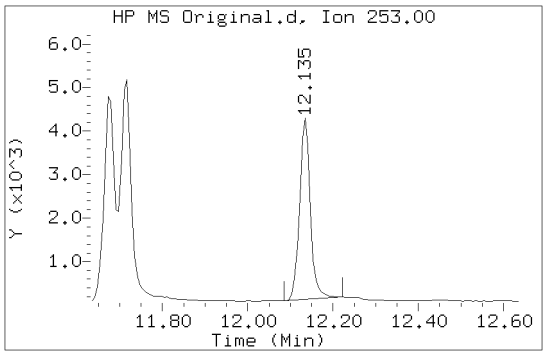
AFTER

MASS
252
AREA
34743
HEIGHT
19382
18-Dec-2023
10:16
linh
pham



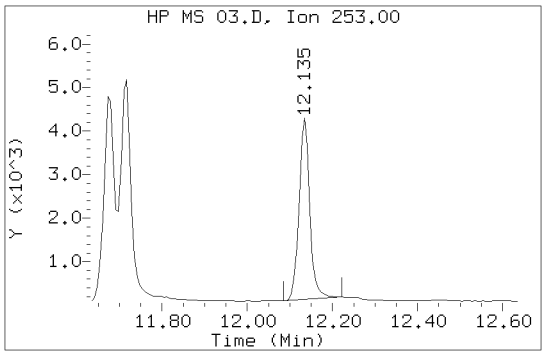
BEFORE

MASS
253
AREA
7393
HEIGHT
4171
18-Dec-2023
10:16
linh
pham



AFTER

MASS
253
AREA
7393
HEIGHT
4171
18-Dec-2023
10:16
linh
pham



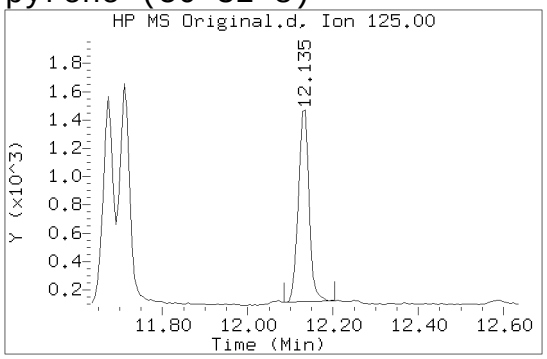
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Inj Date : 12-DEC-2023 13:20
InstruID : SV6.i
LabSampID : PAHSIM-0.08

Benzo(a)pyrene (50-32-8)

Reason Code:

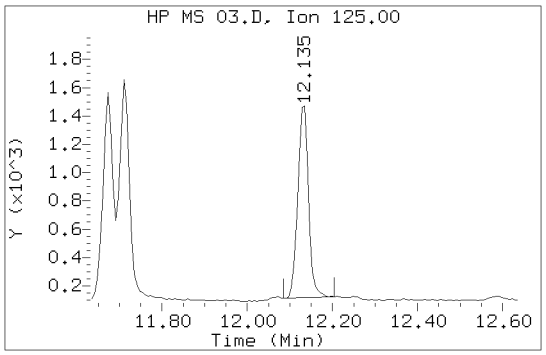
BEFORE

MASS
125
AREA
2420
HEIGHT
1355
18-Dec-2023
10:16
linh
pham



AFTER

MASS
125
AREA
2420
HEIGHT
1355
18-Dec-2023
10:16
linh
pham

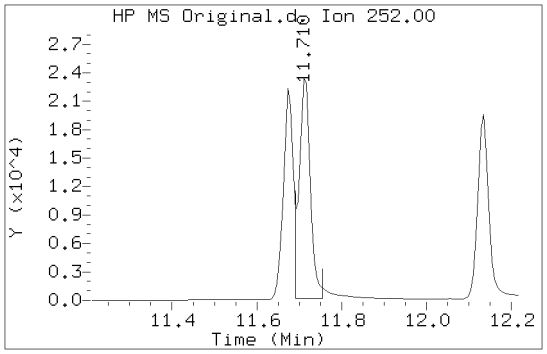


Benzo(k)fluoranthene (207-08-9)

Reason Code:

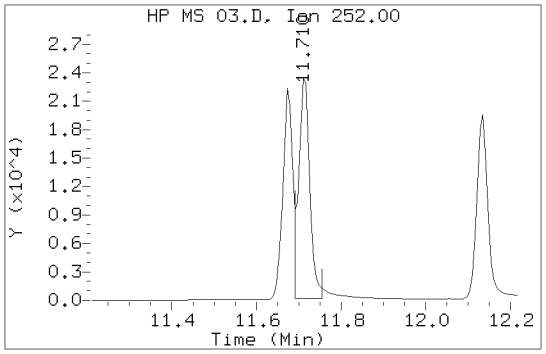
BEFORE

MASS
252
AREA
42990
HEIGHT
23172
18-Dec-2023
10:16
linh
pham



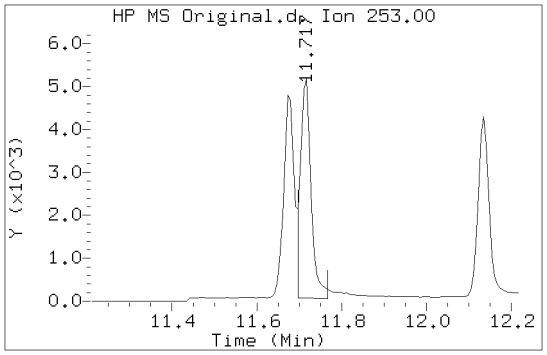
AFTER

MASS
252
AREA
42990
HEIGHT
23172
18-Dec-2023
10:16
linh
pham



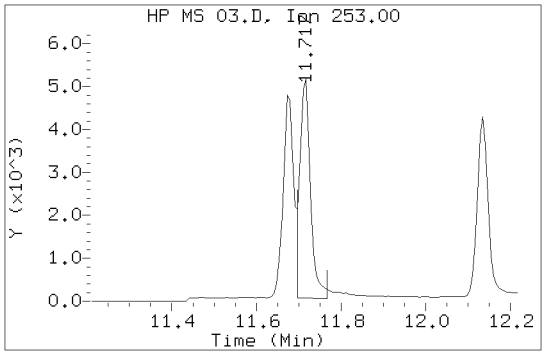
BEFORE

MASS
253
AREA
8948
HEIGHT
5105
18-Dec-2023
10:16
linh
pham



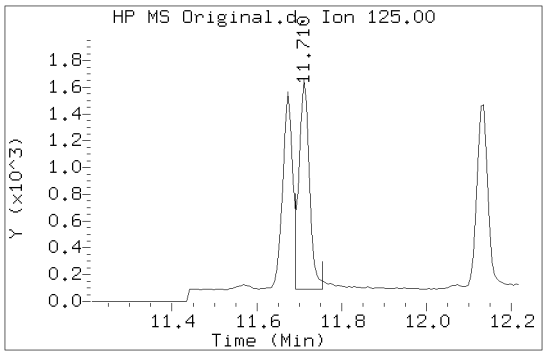
AFTER

MASS
253
AREA
8948
HEIGHT
5105
18-Dec-2023
10:16
linh
pham



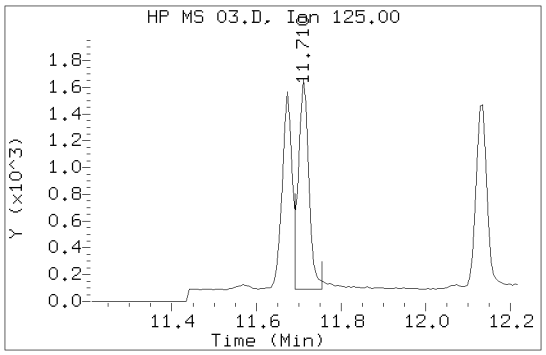
BEFORE

MASS
125
AREA
2696
HEIGHT
1563
18-Dec-2023
10:16
linh
pham



AFTER

MASS
125
AREA
2696
HEIGHT
1563
18-Dec-2023
10:16
linh
pham



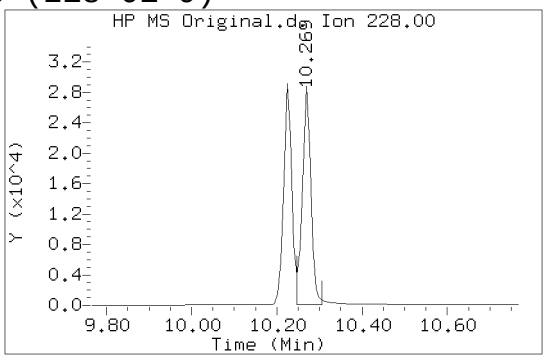
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Inj Date : 12-DEC-2023 13:20
InstruID : SV6.i
LabSampID : PAHSIM-0.08

Chrysene (218-01-9)

Reason Code:

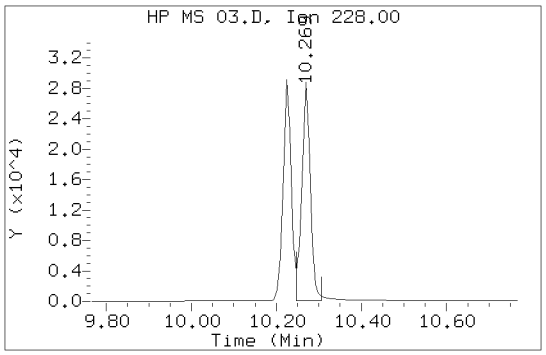
BEFORE

MASS
228
AREA
40103
HEIGHT
28734
18-Dec-2023
10:16
linh
pham



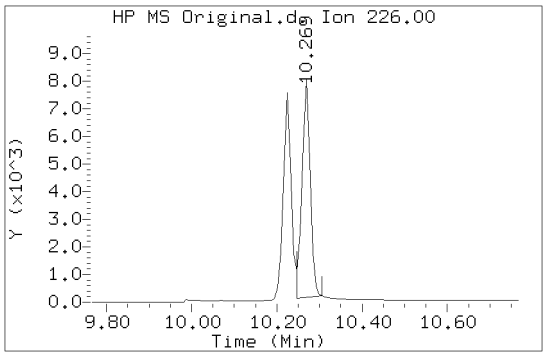
AFTER

MASS
228
AREA
40103
HEIGHT
28734
18-Dec-2023
10:16
linh
pham



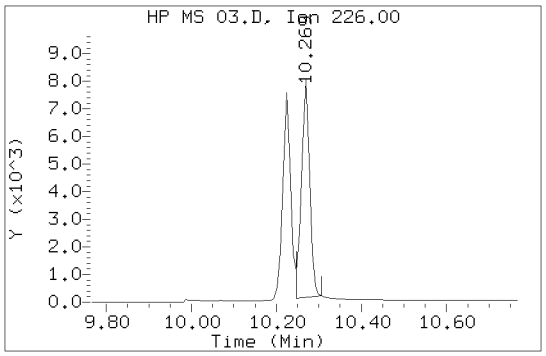
BEFORE

MASS
226
AREA
10582
HEIGHT
7868
18-Dec-2023
10:16
linh
pham



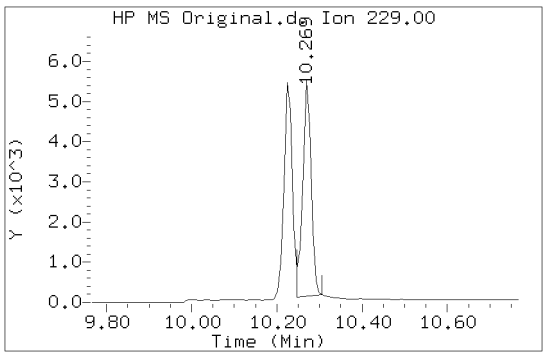
AFTER

MASS
226
AREA
10582
HEIGHT
7868
18-Dec-2023
10:16
linh
pham



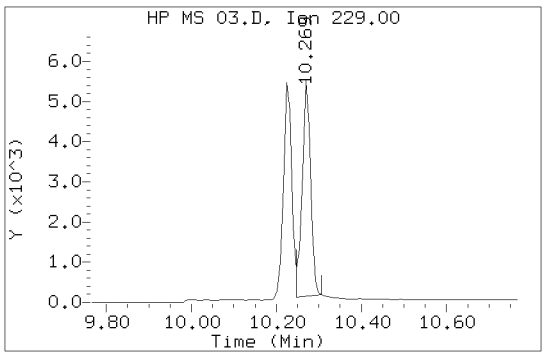
BEFORE

MASS
229
AREA
7403
HEIGHT
5367
18-Dec-2023
10:16
linh
pham



AFTER

MASS
229
AREA
7403
HEIGHT
5367
18-Dec-2023
10:16
linh
pham

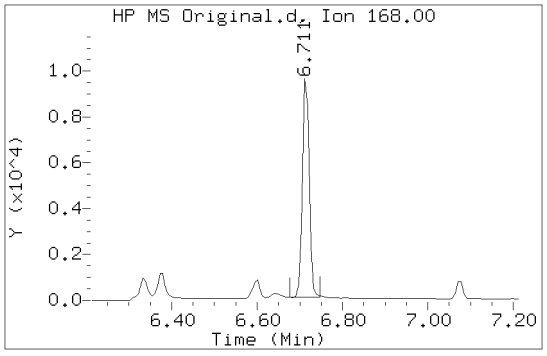


Dibenzofuran (132-64-9)

Reason Code:

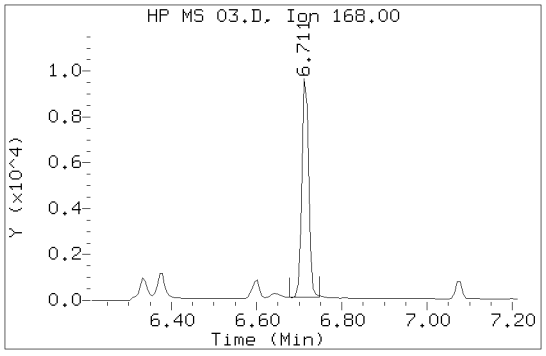
BEFORE

MASS
168
AREA
10259
HEIGHT
9535
18-Dec-2023
10:16
linh
pham



AFTER

MASS
168
AREA
10259
HEIGHT
9535
18-Dec-2023
10:16
linh
pham



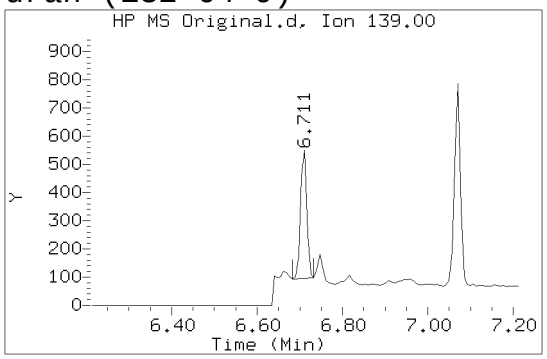
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Inj Date : 12-DEC-2023 13:20
InstruID : SV6.i
LabSampID : PAHSIM-0.08

Dibenzofuran (132-64-9)

Reason Code:

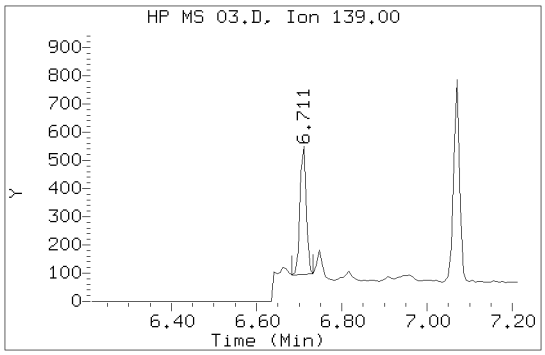
BEFORE

MASS
139
AREA
454
HEIGHT
454
18-Dec-2023
10:16
linh
pham



AFTER

MASS
139
AREA
454
HEIGHT
454
18-Dec-2023
10:16
linh
pham

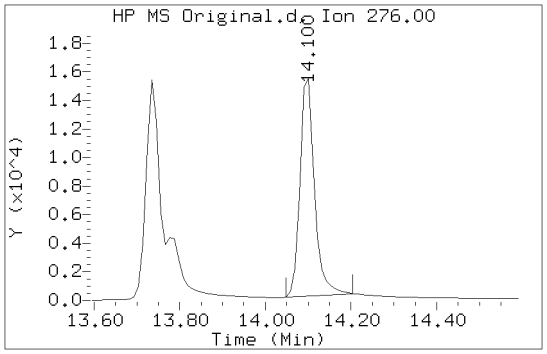


Benzo(g,h,i)perylene (191-24-2)

Reason Code:

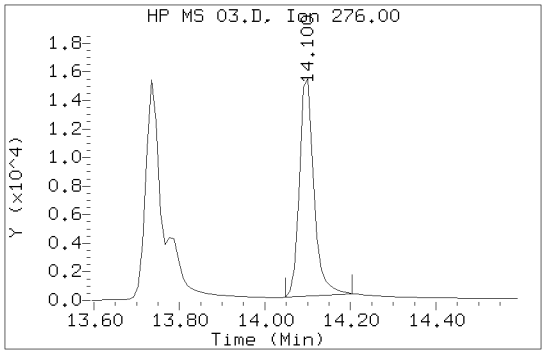
BEFORE

MASS
276
AREA
35700
HEIGHT
15214
18-Dec-2023
10:16
linh
pham



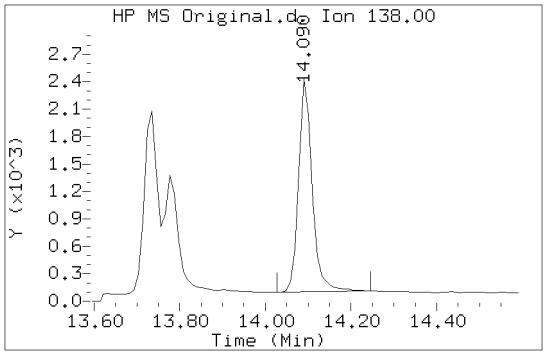
AFTER

MASS
276
AREA
35700
HEIGHT
15214
18-Dec-2023
10:16
linh
pham



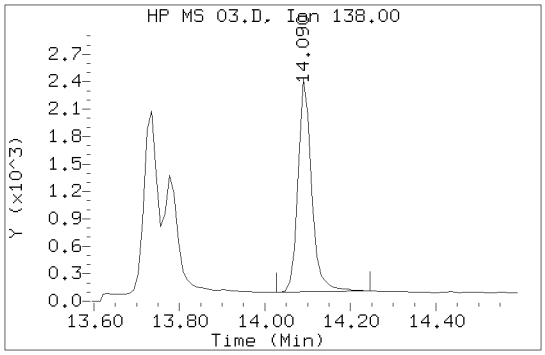
BEFORE

MASS
138
AREA
5100
HEIGHT
2328
18-Dec-2023
10:16
linh
pham



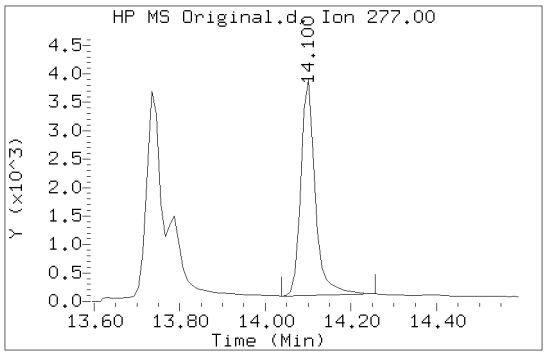
AFTER

MASS
138
AREA
5100
HEIGHT
2328
18-Dec-2023
10:16
linh
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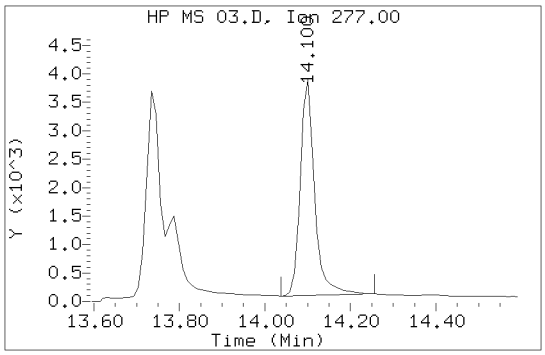
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HEIGHT
3792
18-Dec-2023
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pham



AFTER

MASS
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AREA
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HEIGHT
3792
18-Dec-2023
10:16
linh
pham



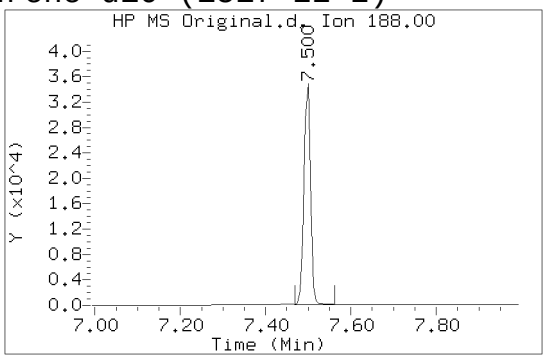
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Inj Date : 12-DEC-2023 13:20
InstruID : SV6.i
LabSampID : PAHSIM-0.08

Phenanthrene-d10 (1517-22-2)

Reason Code:

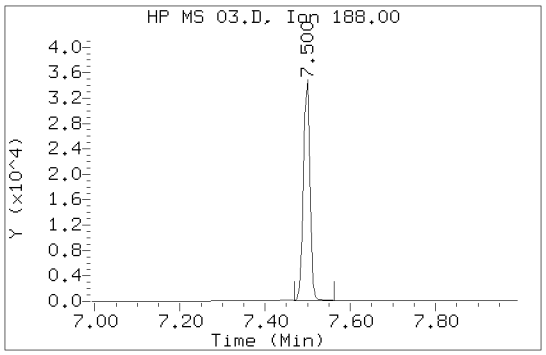
BEFORE

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AREA
35822
HEIGHT
34766
18-Dec-2023
10:16
linh
pham



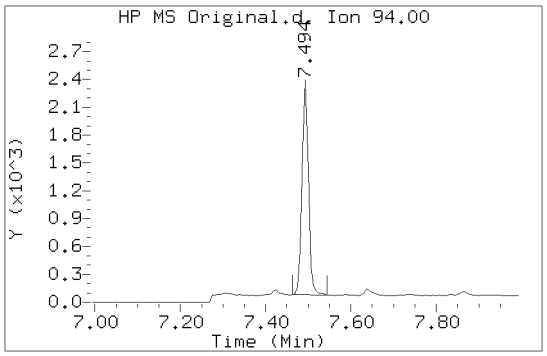
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HEIGHT
34766
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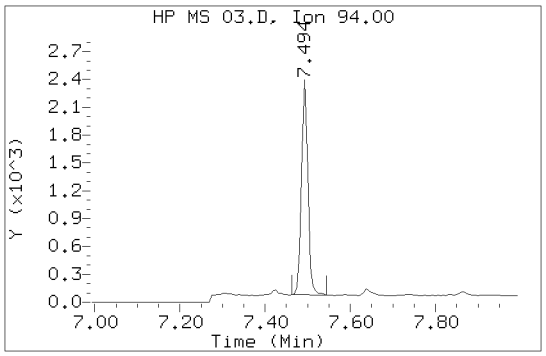
BEFORE

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AREA
2337
HEIGHT
2311
18-Dec-2023
10:16
linh
pham



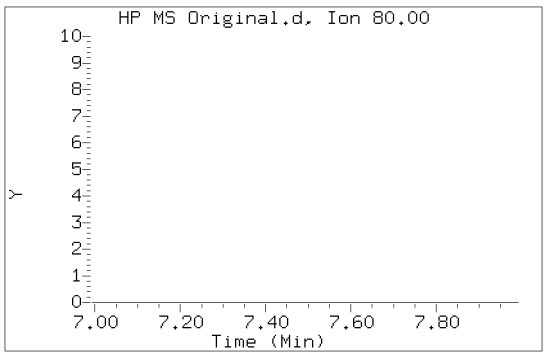
AFTER

MASS
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AREA
2337
HEIGHT
2311
18-Dec-2023
10:16
linh
pham



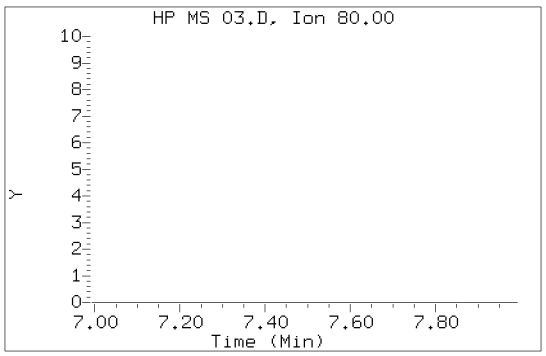
BEFORE

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AREA
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HEIGHT
0
18-Dec-2023
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AFTER

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AREA
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HEIGHT
0
18-Dec-2023
10:16
linh
pham

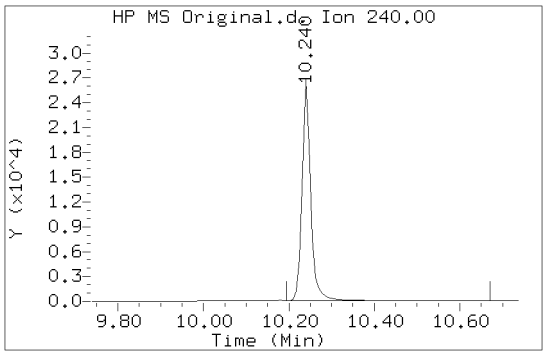


Chrysene-d12 (1719-03-5)

Reason Code:

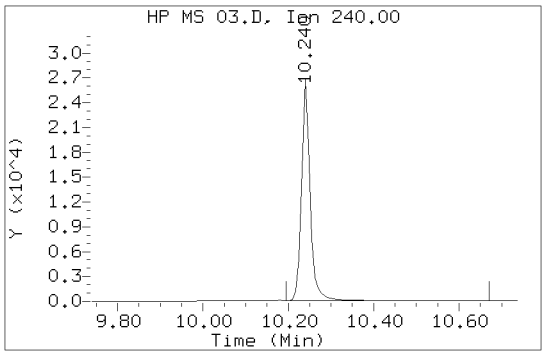
BEFORE

MASS
240
AREA
37227
HEIGHT
26718
18-Dec-2023
10:16
linh
pham



AFTER

MASS
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AREA
37227
HEIGHT
26718
18-Dec-2023
10:16
linh
pham



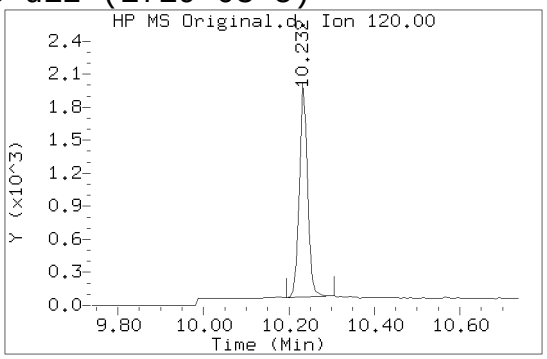
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Inj Date : 12-DEC-2023 13:20
InstruID : SV6.i
LabSampID : PAHSIM-0.08

Chrysene-d12 (1719-03-5)

Reason Code:

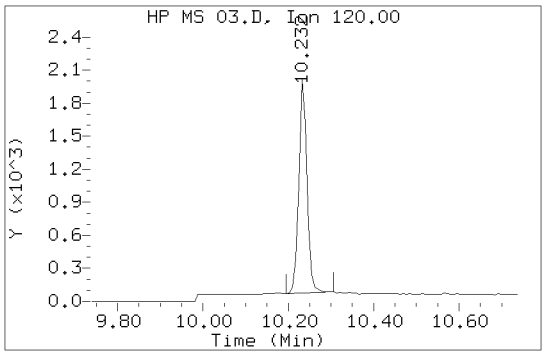
BEFORE

MASS
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AREA
2544
HEIGHT
1938
18-Dec-2023
10:16
linh
pham



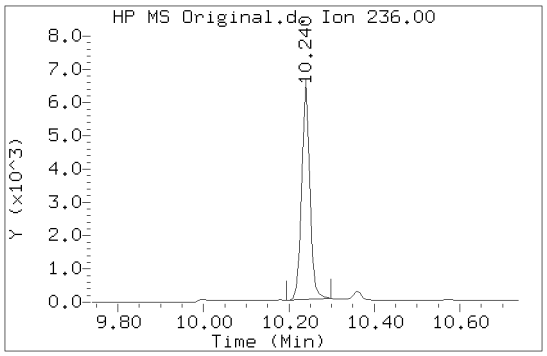
AFTER

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AREA
2544
HEIGHT
1938
18-Dec-2023
10:16
linh
pham



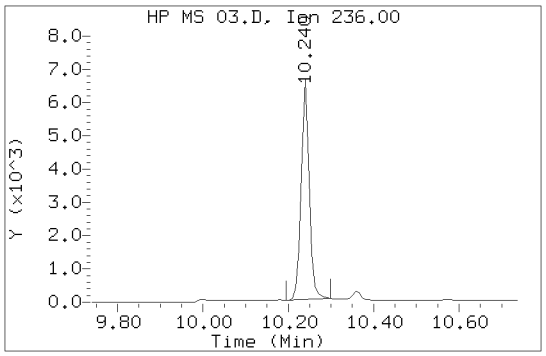
BEFORE

MASS
236
AREA
8536
HEIGHT
6599
18-Dec-2023
10:16
linh
pham



AFTER

MASS
236
AREA
8536
HEIGHT
6599
18-Dec-2023
10:16
linh
pham

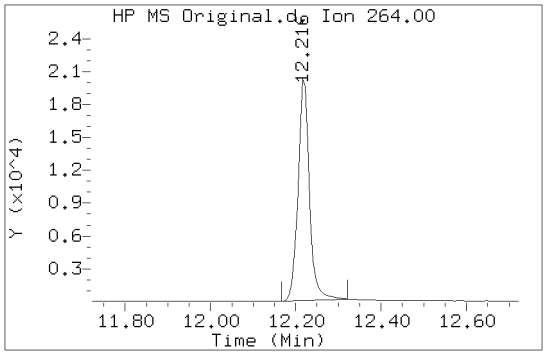


Perylene-d12 (1520-96-3)

Reason Code:

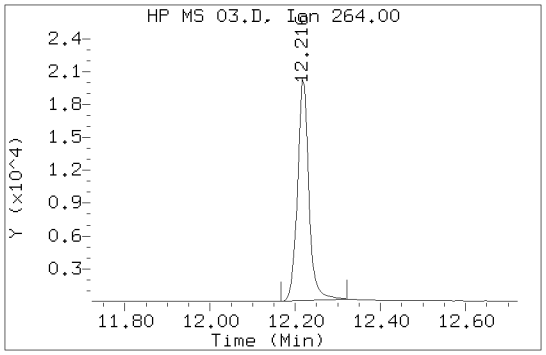
BEFORE

MASS
264
AREA
37882
HEIGHT
20212
18-Dec-2023
10:16
linh
pham



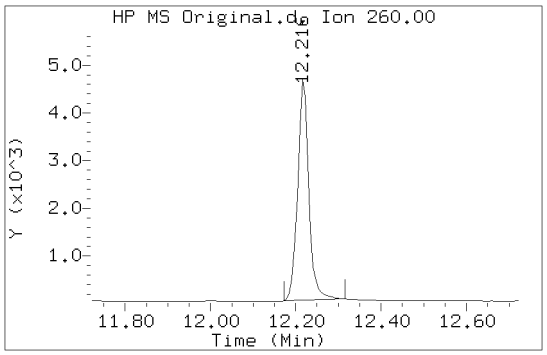
AFTER

MASS
264
AREA
37882
HEIGHT
20212
18-Dec-2023
10:16
linh
pham



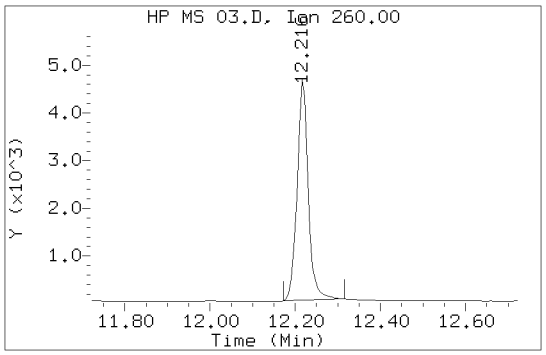
BEFORE

MASS
260
AREA
8473
HEIGHT
4621
18-Dec-2023
10:16
linh
pham



AFTER

MASS
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AREA
8473
HEIGHT
4621
18-Dec-2023
10:16
linh
pham



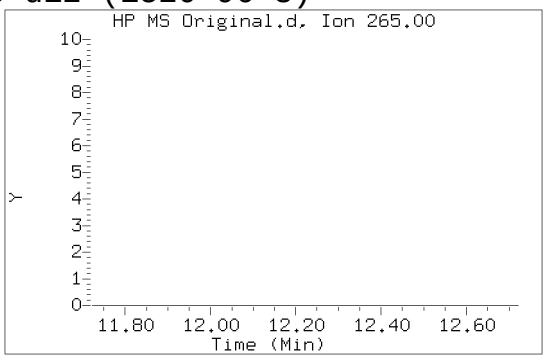
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Inj Date : 12-DEC-2023 13:20
InstruID : SV6.i
LabSampID : PAHSIM-0.08

Perylene-d12 (1520-96-3)

Reason Code:

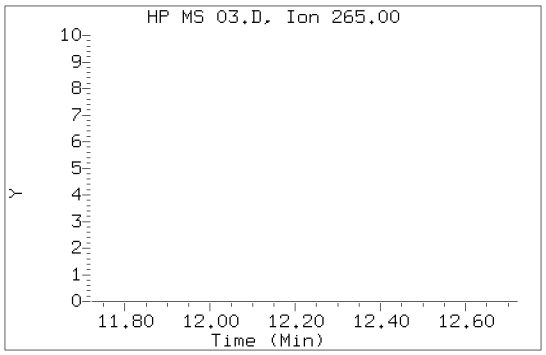
BEFORE

MASS
265
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
265
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham

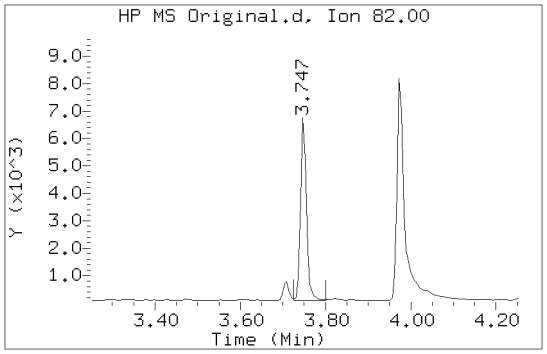


Nitrobenzene-d5 (4165-60-0)

Reason Code:

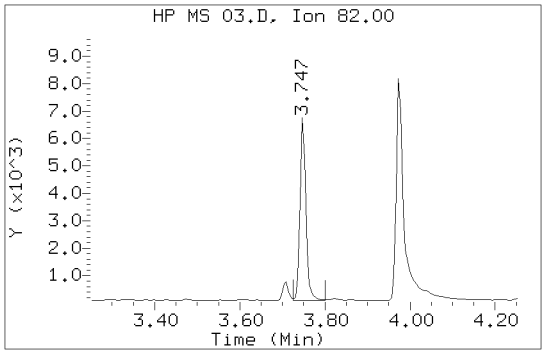
BEFORE

MASS
82
AREA
6262
HEIGHT
6643
18-Dec-2023
10:16
linh
pham



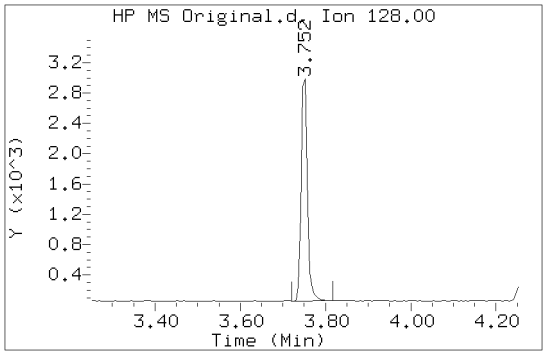
AFTER

MASS
82
AREA
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HEIGHT
6643
18-Dec-2023
10:16
linh
pham



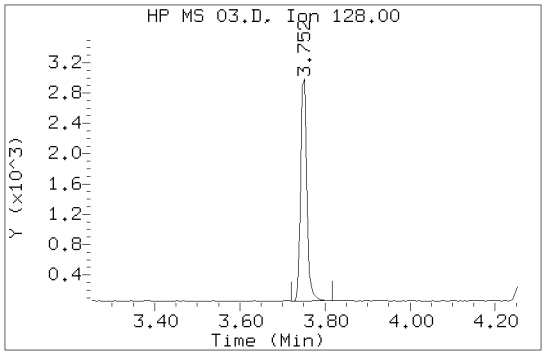
BEFORE

MASS
128
AREA
2932
HEIGHT
2926
18-Dec-2023
10:16
linh
pham



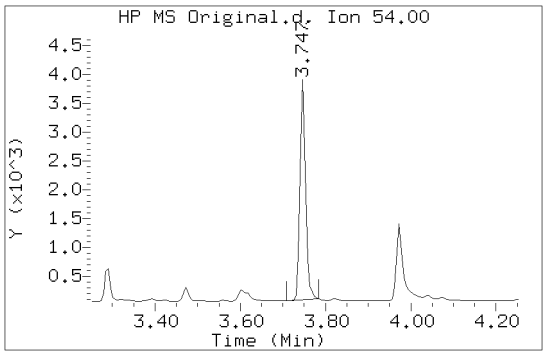
AFTER

MASS
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AREA
2932
HEIGHT
2926
18-Dec-2023
10:16
linh
pham



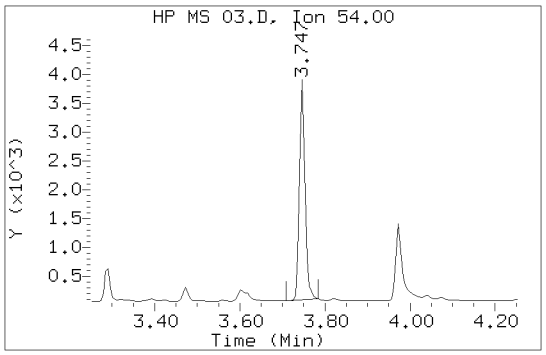
BEFORE

MASS
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AREA
3459
HEIGHT
3815
18-Dec-2023
10:16
linh
pham



AFTER

MASS
54
AREA
3459
HEIGHT
3815
18-Dec-2023
10:16
linh
pham



Data File: \\NAHSTWS005\Target\chem\SV6.i\231212.b\04.D Page 1
Report Date: 18-Dec-2023 10:17

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\231212.b\04.D
Lab Smp Id: PAHSIM-0.010 Client Smp ID: PAHSIM-0.010
Inj Date : 12-DEC-2023 13:58
Operator : LG Inst ID: SV6.i
Smp Info : PAHSIM-0.01
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\231212.b\PAHSIM1.m
Meth Date : 18-Dec-2023 10:17 SV6.i Quant Type: ISTD
Cal Date : 12-DEC-2023 13:20 Cal File: 03.D
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: llpahdbf.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 45 Naphthalene-d8	136	4.391	4.391	(1.000)	22175	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.746	3.746	(0.853)	588	0.01000	0.009616(M)
* 86 Acenaphthene-d10	164	6.056	6.056	(1.000)	13618	0.10000	
$ 69 2-Fluorobiphenyl	172	5.413	5.413	(0.894)	2011	0.01000	0.009273(M)
* 126 Phenanthrene-d10	188	7.498	7.498	(1.000)	28419	0.10000	(M)
* 182 Chrysene-d12	240	10.243	10.243	(1.000)	26412	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.077	9.077	(0.892)	3044	0.01000	0.01135(Q)
* 198 Perylene-d12	264	12.224	12.224	(1.000)	28037	0.10000	(M)
46 Naphthalene	128	4.407	4.407	(1.004)	2342	0.01000	0.009626(M)
61 2-Methylnaphthalene	142	5.059	5.059	(1.152)	1471	0.01000	0.009041(M)
62 1-Methylnaphthalene	142	5.150	5.150	(1.173)	1404	0.01000	0.009248(M)
83 Acenaphthylene	152	5.915	5.915	(0.977)	2247	0.01000	0.009024(M)
88 Acenaphthene	154	6.086	6.086	(1.005)	1535	0.01000	0.009777(M)
98 Fluorene	166	6.587	6.587	(1.088)	1791	0.01000	0.009279(M)
92 Dibenzofuran	168	6.716	6.716	(1.109)	961	0.01000	0.009441(M)
128 Phenanthrene	178	7.516	7.516	(1.002)	3022	0.01000	0.009715(M)
130 Anthracene	178	7.566	7.566	(1.009)	2993	0.01000	0.009656(M)
149 Fluoranthene	202	8.681	8.681	(1.158)	3567	0.01000	0.009641(M)
155 Pyrene	202	8.900	8.900	(0.869)	3927	0.01000	0.01023(M)

181 Benzo(a)Anthracene	228	10.228	10.228 (1.005)	3679	0.01000	0.01027
183 Chrysene	228	10.272	10.272 (1.009)	4081	0.01000	0.01022

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
192 Benzo(b)fluoranthene	252	11.675	11.675	(0.955)	3363	0.01000	0.009663(M)
195 Benzo(k)fluoranthene	252	11.712	11.712	(0.958)	4159	0.01000	0.009876(M)
197 Benzo(a)pyrene	252	12.137	12.137	(0.993)	3316	0.01000	0.009831(M)
209 Indeno(1,2,3-cd)pyrene	276	13.738	13.738	(1.124)	4117	0.01000	0.01020(M)
210 Dibenzo(a,h)anthracene	278	13.790	13.790	(1.128)	3270	0.01000	0.009753(M)
212 Benzo(g,h,i)perylene	276	14.102	14.102	(1.154)	3852	0.01000	0.01068(M)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\231212.b\04.D

Date : 12-DEC-2023 13:58

Client ID: PAHSIM-0.010

Instrument: SV6.i

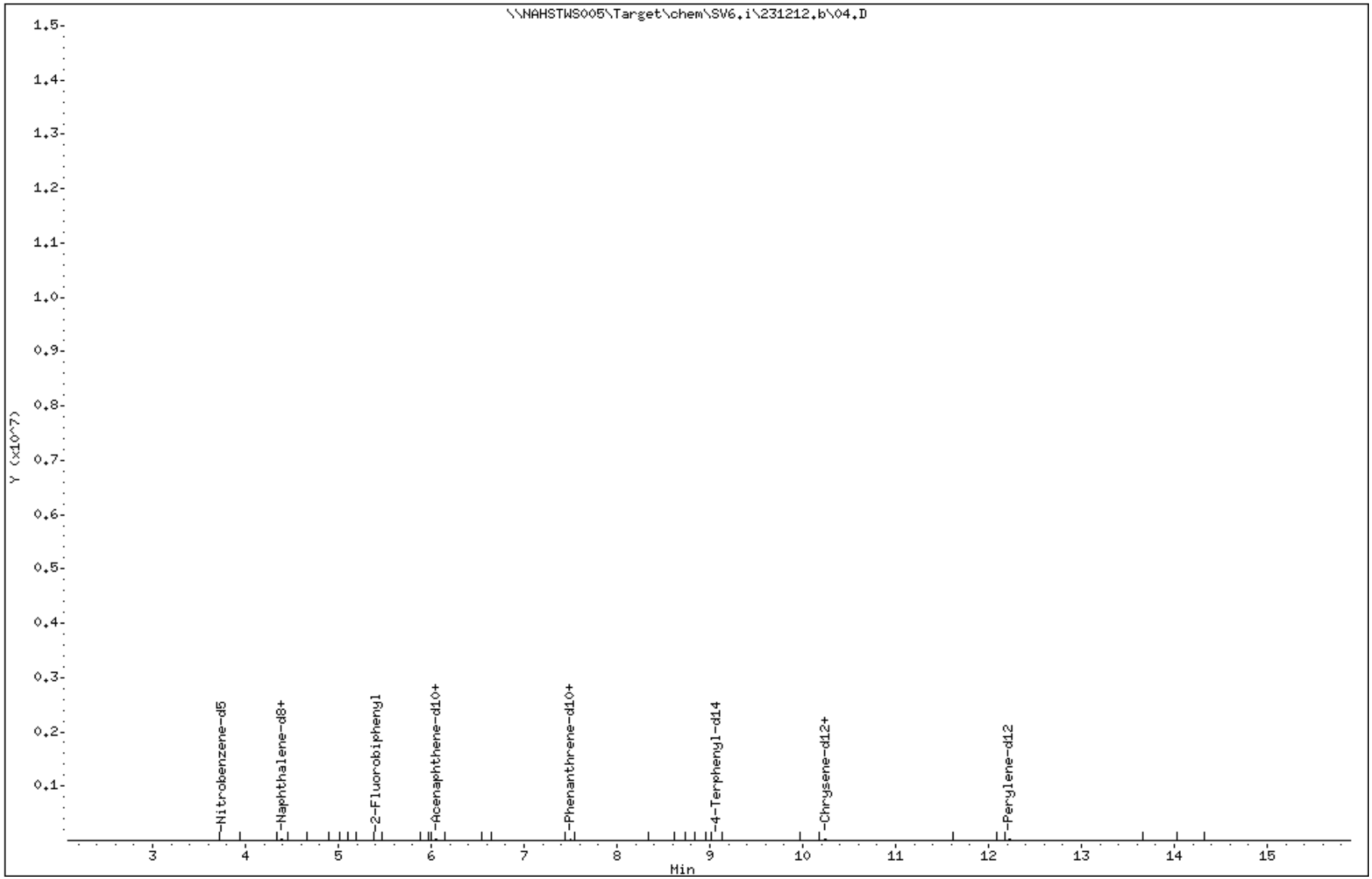
Sample Info: PAHSIM-0.01

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



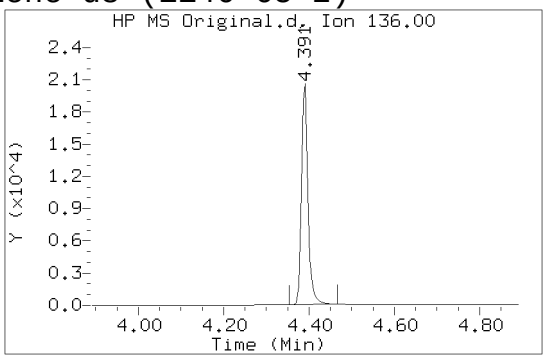
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Inj Date : 12-DEC-2023 13:58
InstruID : SV6.i
LabSampID : PAHSIM-0.010

Naphthalene-d8 (1146-65-2)

Reason Code:

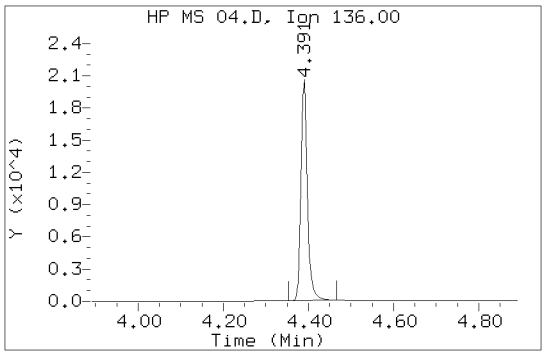
BEFORE

MASS
136
AREA
22175
HEIGHT
20569
18-Dec-2023
10:16
linh
pham



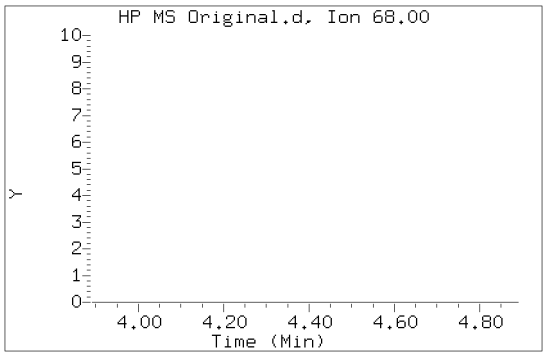
AFTER

MASS
136
AREA
22175
HEIGHT
20569
18-Dec-2023
10:16
linh
pham



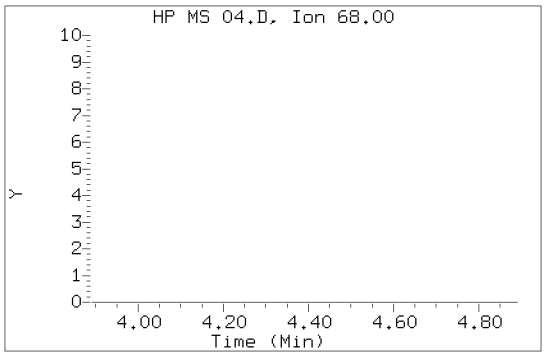
BEFORE

MASS
68
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
68
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham

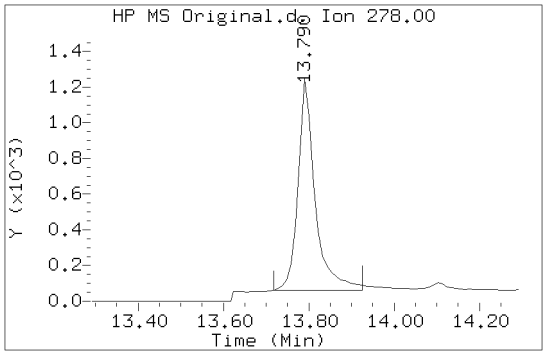


Dibenzo(a,h)anthracene (53-70-3)

Reason Code:

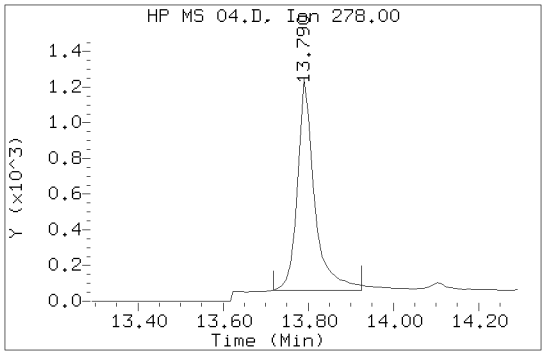
BEFORE

MASS
278
AREA
3270
HEIGHT
1184
18-Dec-2023
10:16
linh
pham



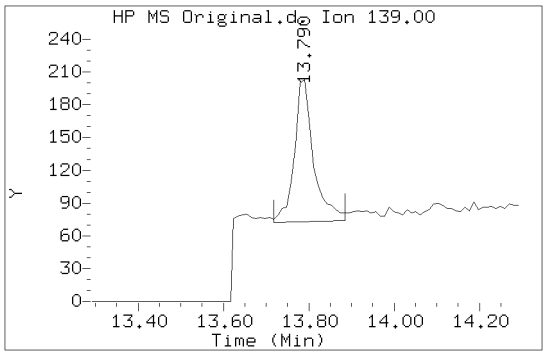
AFTER

MASS
278
AREA
3270
HEIGHT
1184
18-Dec-2023
10:16
linh
pham



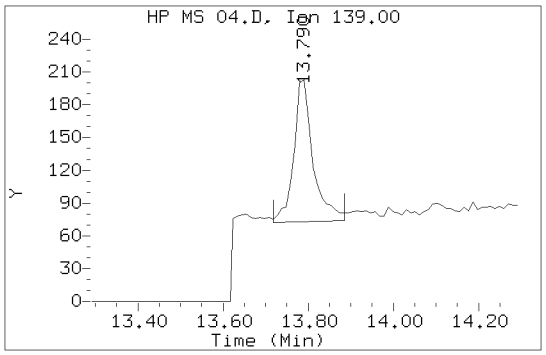
BEFORE

MASS
139
AREA
408
HEIGHT
130
18-Dec-2023
10:16
linh
pham



AFTER

MASS
139
AREA
408
HEIGHT
130
18-Dec-2023
10:16
linh
pham



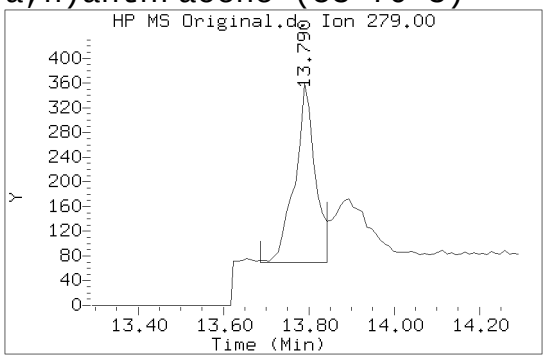
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\04.D
Inj Date : 12-DEC-2023 13:58
InstruID : SV6.i
LabSampID : PAHSIM-0.010

Dibenzo(a,h)anthracene (53-70-3)

Reason Code:

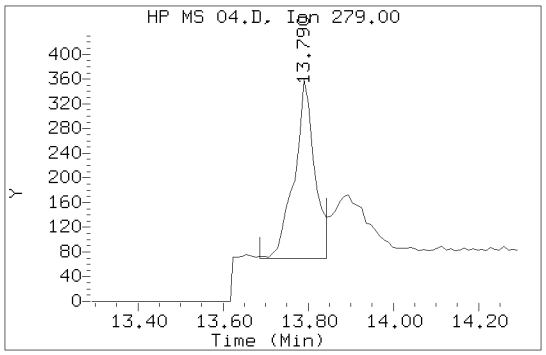
BEFORE

MASS
279
AREA
960
HEIGHT
289
18-Dec-2023
10:16
linh
pham



AFTER

MASS
279
AREA
960
HEIGHT
289
18-Dec-2023
10:16
linh
pham

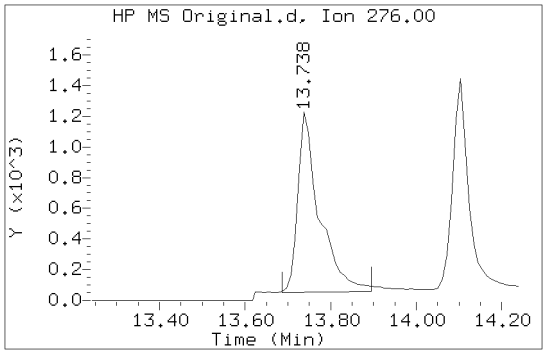


Indeno(1,2,3-cd)pyrene (193-39-5)

Reason Code:

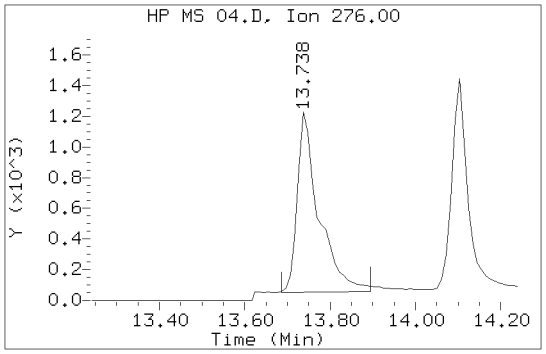
BEFORE

MASS
276
AREA
4117
HEIGHT
1177
18-Dec-2023
10:16
linh
pham



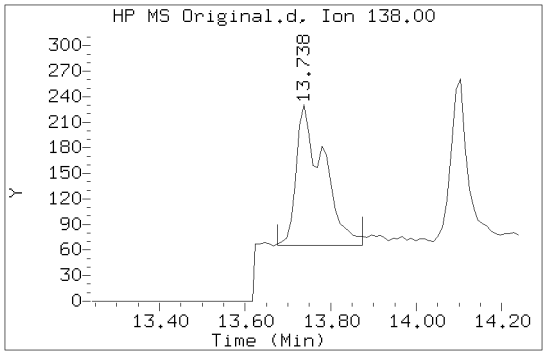
AFTER

MASS
276
AREA
4117
HEIGHT
1177
18-Dec-2023
10:16
linh
pham



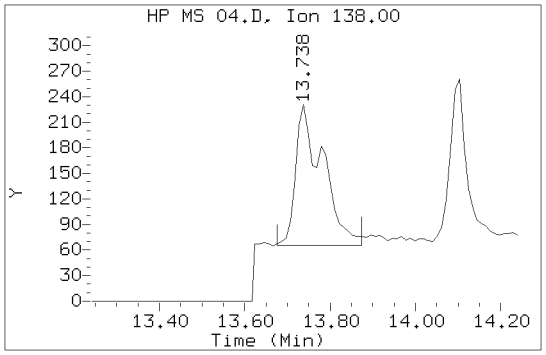
BEFORE

MASS
138
AREA
726
HEIGHT
165
18-Dec-2023
10:16
linh
pham



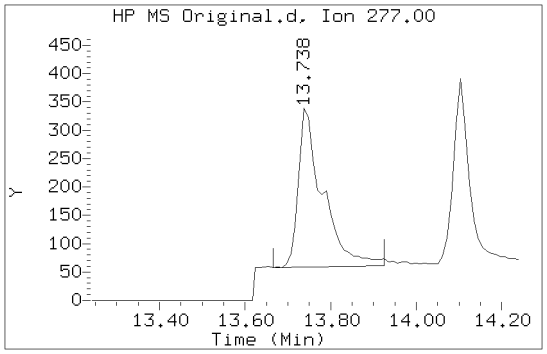
AFTER

MASS
138
AREA
726
HEIGHT
165
18-Dec-2023
10:16
linh
pham



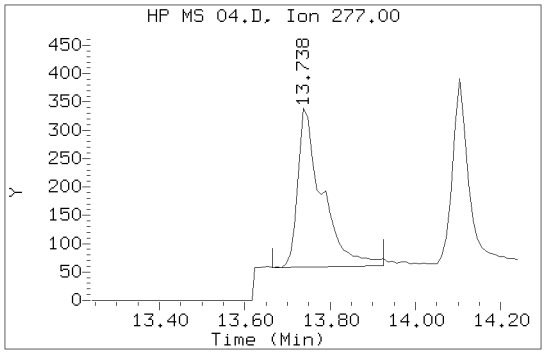
BEFORE

MASS
277
AREA
1108
HEIGHT
280
18-Dec-2023
10:16
linh
pham



AFTER

MASS
277
AREA
1108
HEIGHT
280
18-Dec-2023
10:16
linh
pham



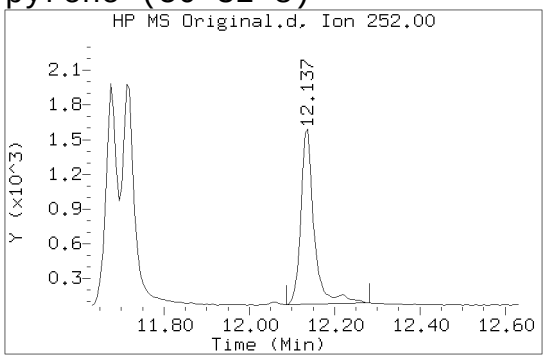
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\04.D
Inj Date : 12-DEC-2023 13:58
InstruID : SV6.i
LabSampID : PAHSIM-0.010

Benzo(a)pyrene (50-32-8)

Reason Code:

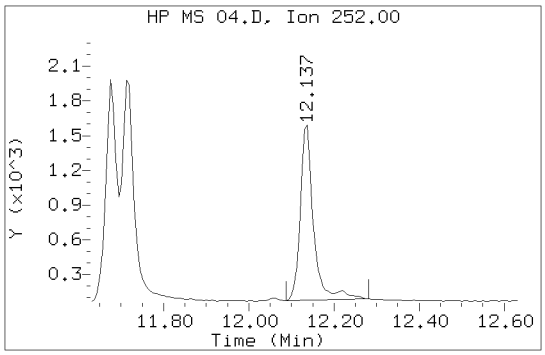
BEFORE

MASS
252
AREA
3316
HEIGHT
1510
18-Dec-2023
10:16
linh
pham



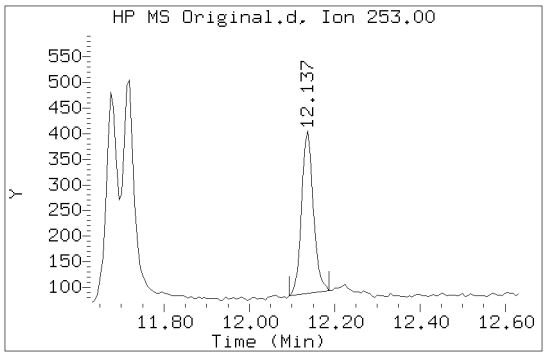
AFTER

MASS
252
AREA
3316
HEIGHT
1510
18-Dec-2023
10:16
linh
pham



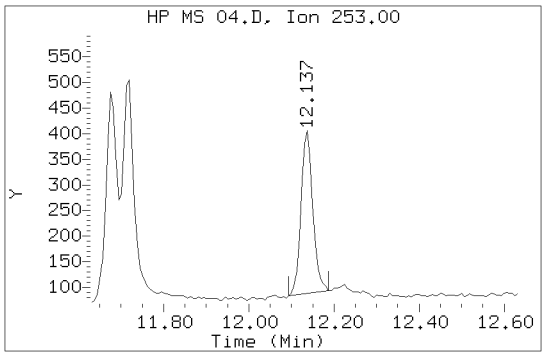
BEFORE

MASS
253
AREA
615
HEIGHT
317
18-Dec-2023
10:16
linh
pham



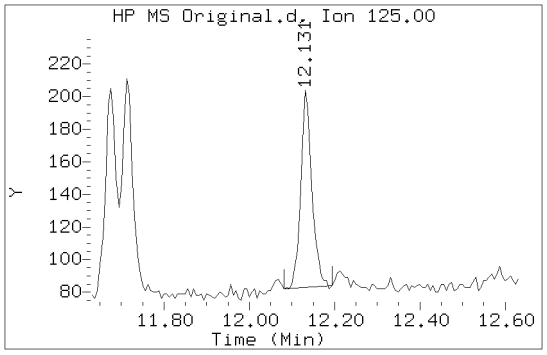
AFTER

MASS
253
AREA
615
HEIGHT
317
18-Dec-2023
10:16
linh
pham



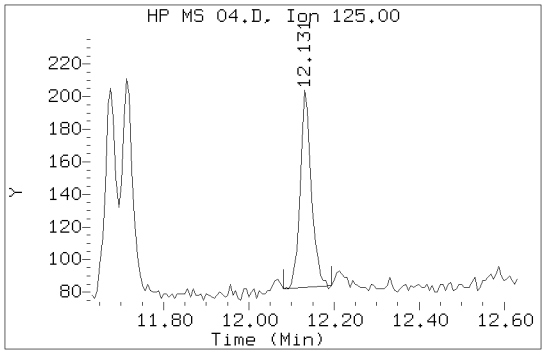
BEFORE

MASS
125
AREA
221
HEIGHT
121
18-Dec-2023
10:16
linh
pham



AFTER

MASS
125
AREA
221
HEIGHT
121
18-Dec-2023
10:16
linh
pham

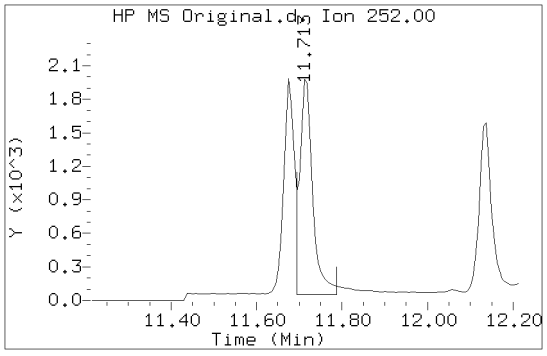


Benzo(k)fluoranthene (207-08-9)

Reason Code:

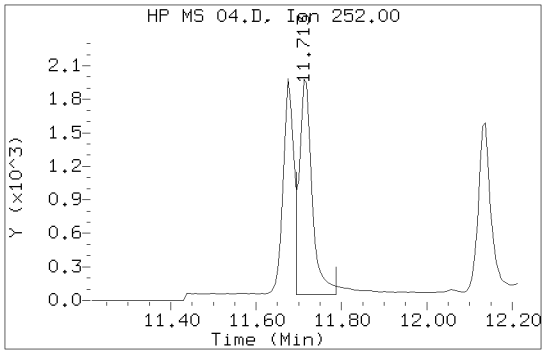
BEFORE

MASS
252
AREA
4159
HEIGHT
1931
18-Dec-2023
10:16
linh
pham



AFTER

MASS
252
AREA
4159
HEIGHT
1931
18-Dec-2023
10:16
linh
pham



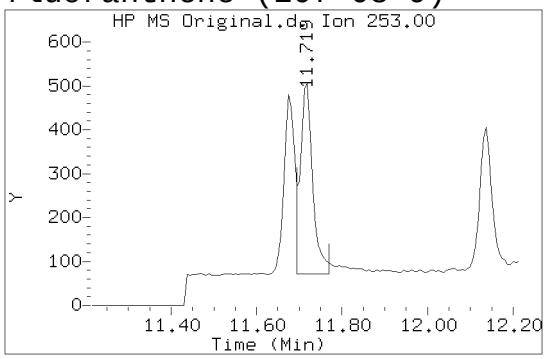
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\04.D
Inj Date : 12-DEC-2023 13:58
InstruID : SV6.i
LabSampID : PAHSIM-0.010

Benzo(k)fluoranthene (207-08-9)

Reason Code:

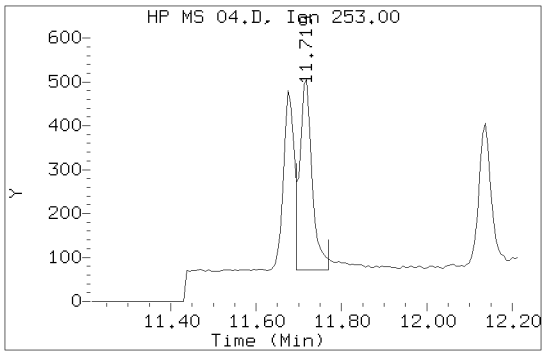
BEFORE

MASS
253
AREA
904
HEIGHT
434
18-Dec-2023
10:16
linh
pham



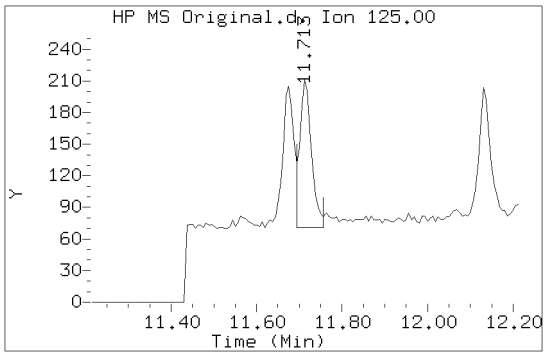
AFTER

MASS
253
AREA
904
HEIGHT
434
18-Dec-2023
10:16
linh
pham



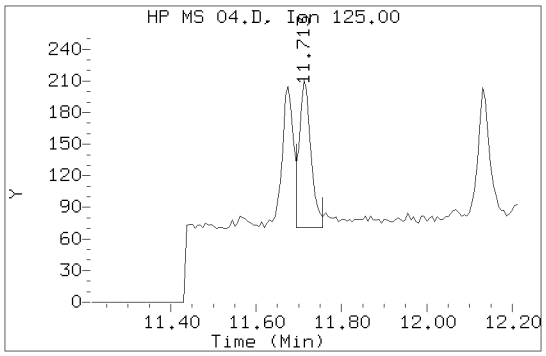
BEFORE

MASS
125
AREA
275
HEIGHT
140
18-Dec-2023
10:16
linh
pham



AFTER

MASS
125
AREA
275
HEIGHT
140
18-Dec-2023
10:16
linh
pham

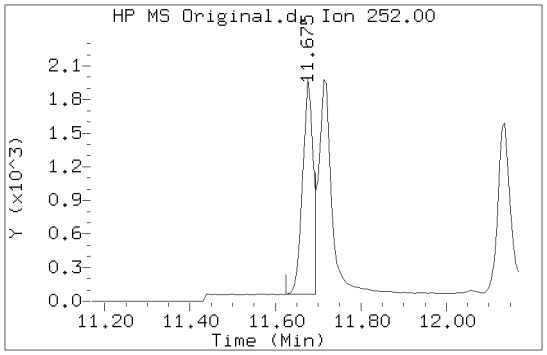


Benzo(b)fluoranthene (205-99-2)

Reason Code:

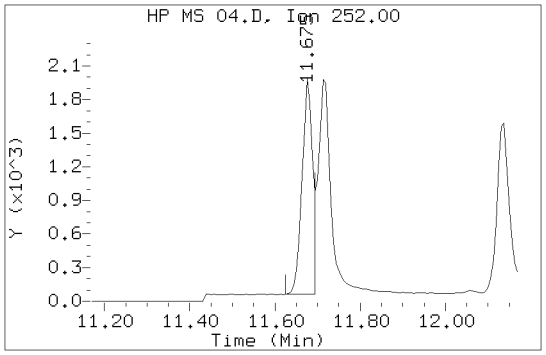
BEFORE

MASS
252
AREA
3363
HEIGHT
1920
18-Dec-2023
10:16
linh
pham



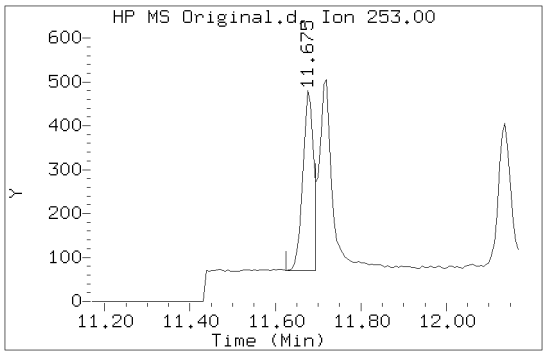
AFTER

MASS
252
AREA
3363
HEIGHT
1920
18-Dec-2023
10:16
linh
pham



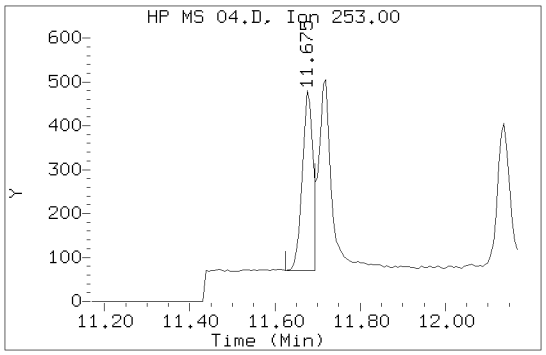
BEFORE

MASS
253
AREA
727
HEIGHT
411
18-Dec-2023
10:16
linh
pham



AFTER

MASS
253
AREA
727
HEIGHT
411
18-Dec-2023
10:16
linh
pham



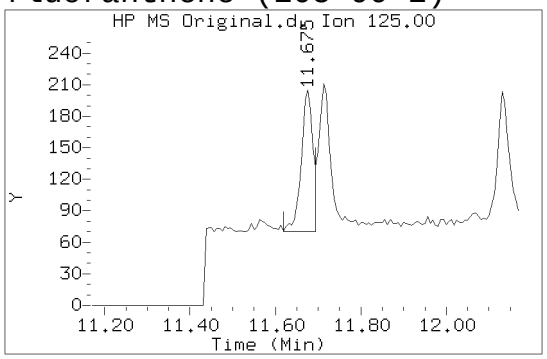
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\04.D
Inj Date : 12-DEC-2023 13:58
InstruID : SV6.i
LabSampID : PAHSIM-0.010

Benzo(b)fluoranthene (205-99-2)

Reason Code:

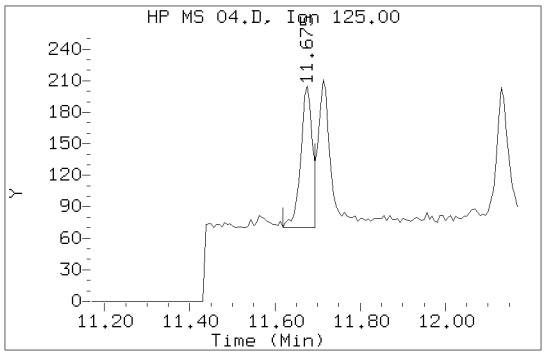
BEFORE

MASS
125
AREA
260
HEIGHT
135
18-Dec-2023
10:16
linh
pham



AFTER

MASS
125
AREA
260
HEIGHT
135
18-Dec-2023
10:16
linh
pham

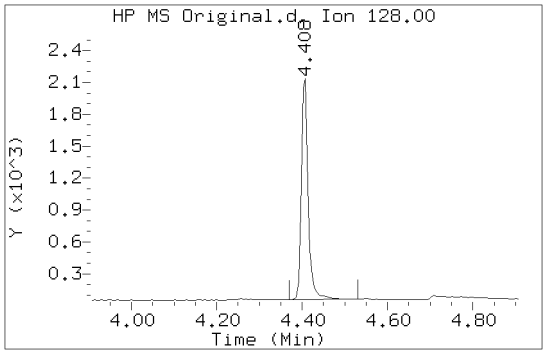


Naphthalene (91-20-3)

Reason Code:

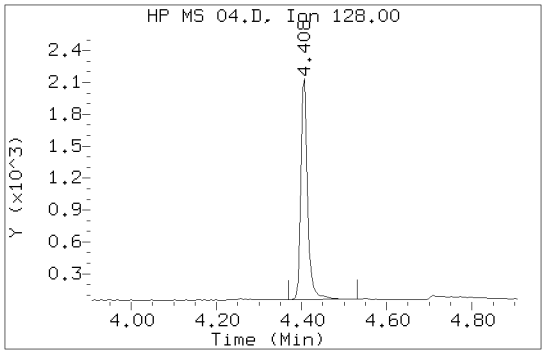
BEFORE

MASS
128
AREA
2342
HEIGHT
2076
18-Dec-2023
10:16
linh
pham



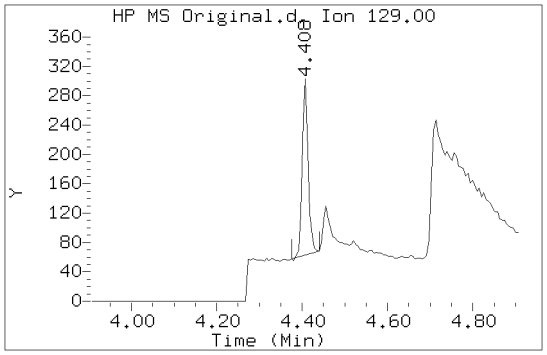
AFTER

MASS
128
AREA
2342
HEIGHT
2076
18-Dec-2023
10:16
linh
pham



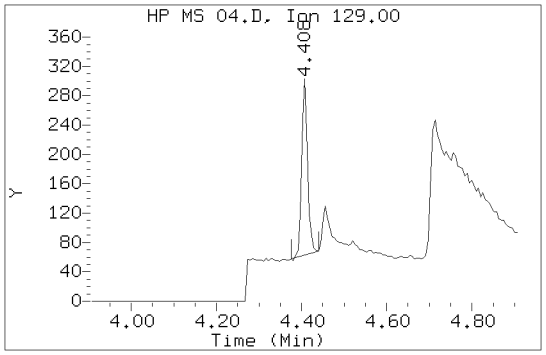
BEFORE

MASS
129
AREA
231
HEIGHT
239
18-Dec-2023
10:16
linh
pham



AFTER

MASS
129
AREA
231
HEIGHT
239
18-Dec-2023
10:16
linh
pham

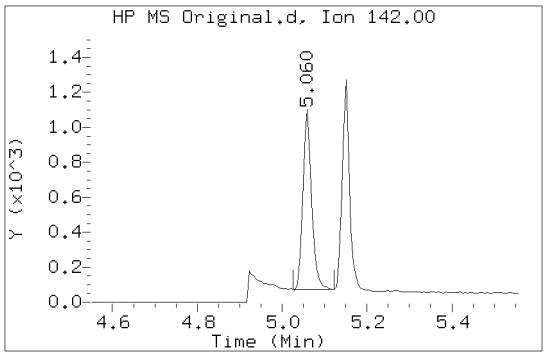


2-Methylnaphthalene (91-57-6)

Reason Code:

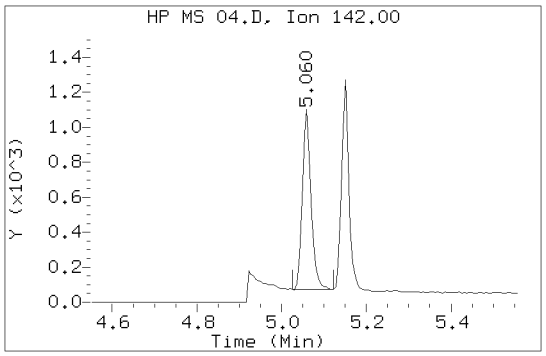
BEFORE

MASS
142
AREA
1471
HEIGHT
1027
18-Dec-2023
10:16
linh
pham



AFTER

MASS
142
AREA
1471
HEIGHT
1027
18-Dec-2023
10:16
linh
pham



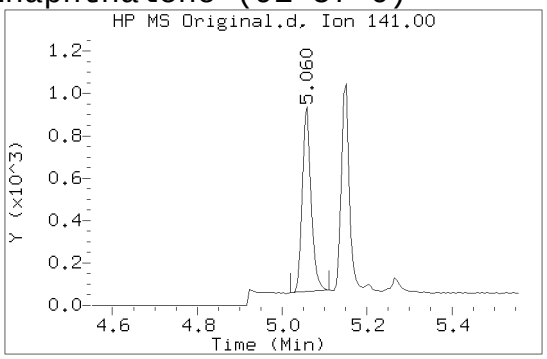
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\04.D
Inj Date : 12-DEC-2023 13:58
InstruID : SV6.i
LabSampID : PAHSIM-0.010

2-Methylnaphthalene (91-57-6)

Reason Code:

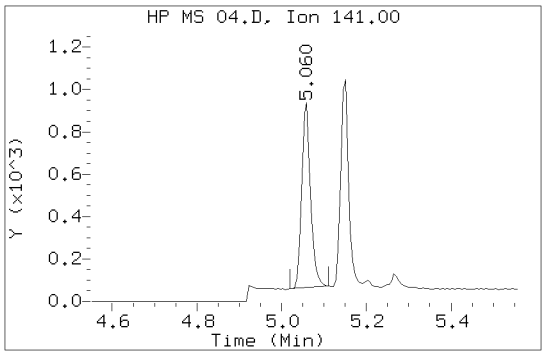
BEFORE

MASS
141
AREA
1255
HEIGHT
870
18-Dec-2023
10:16
linh
pham



AFTER

MASS
141
AREA
1255
HEIGHT
870
18-Dec-2023
10:16
linh
pham

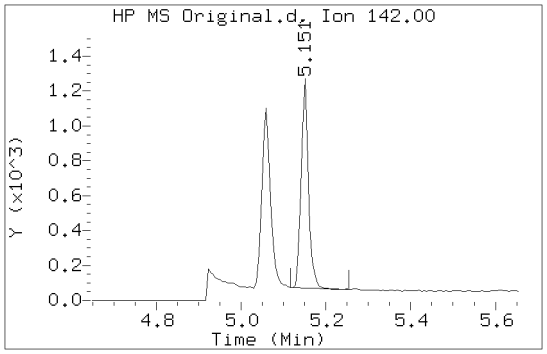


1-Methylnaphthalene (90-12-0)

Reason Code:

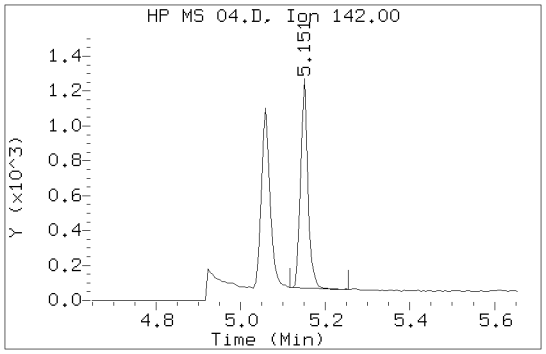
BEFORE

MASS
142
AREA
1404
HEIGHT
1201
18-Dec-2023
10:16
linh
pham



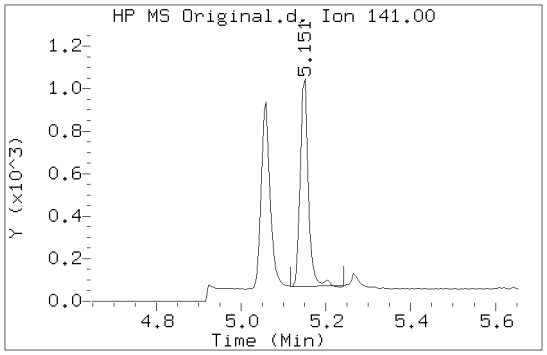
AFTER

MASS
142
AREA
1404
HEIGHT
1201
18-Dec-2023
10:16
linh
pham



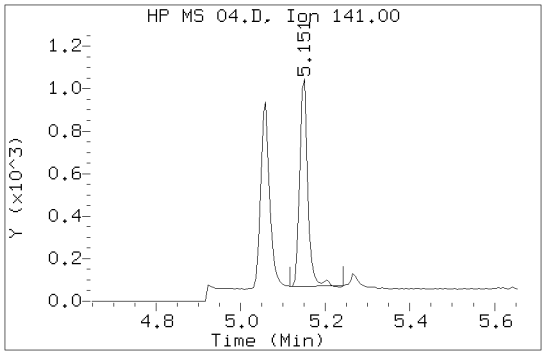
BEFORE

MASS
141
AREA
1265
HEIGHT
975
18-Dec-2023
10:16
linh
pham



AFTER

MASS
141
AREA
1265
HEIGHT
975
18-Dec-2023
10:16
linh
pham

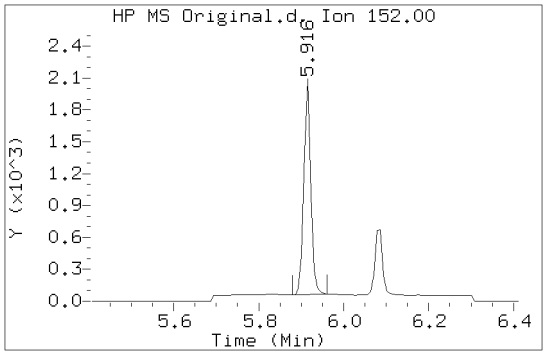


Acenaphthylene (208-96-8)

Reason Code:

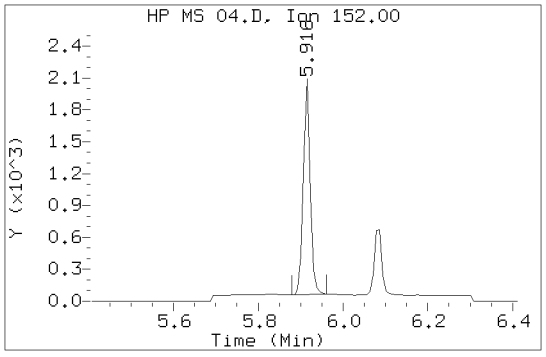
BEFORE

MASS
152
AREA
2247
HEIGHT
2028
18-Dec-2023
10:16
linh
pham



AFTER

MASS
152
AREA
2247
HEIGHT
2028
18-Dec-2023
10:16
linh
pham



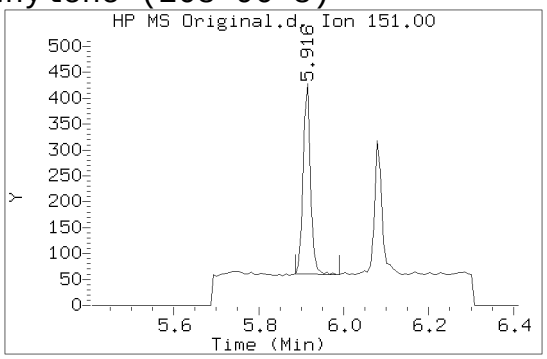
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\04.D
Inj Date : 12-DEC-2023 13:58
InstruID : SV6.i
LabSampID : PAHSIM-0.010

Acenaphthylene (208-96-8)

Reason Code:

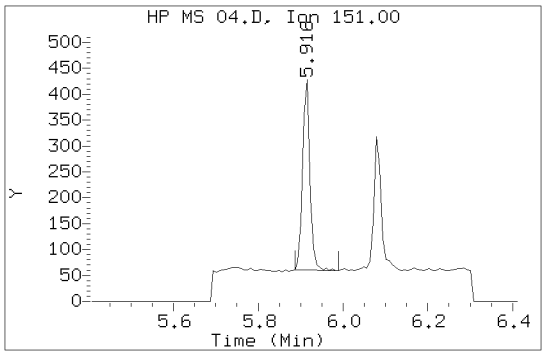
BEFORE

MASS
151
AREA
432
HEIGHT
367
18-Dec-2023
10:16
linh
pham



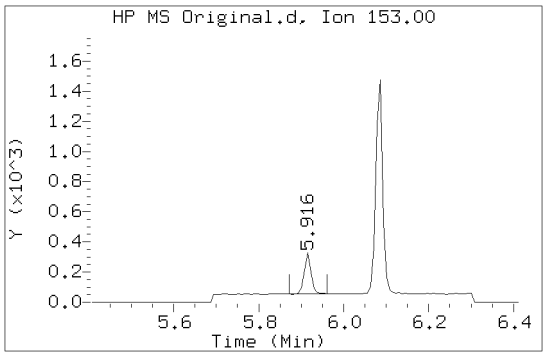
AFTER

MASS
151
AREA
432
HEIGHT
367
18-Dec-2023
10:16
linh
pham



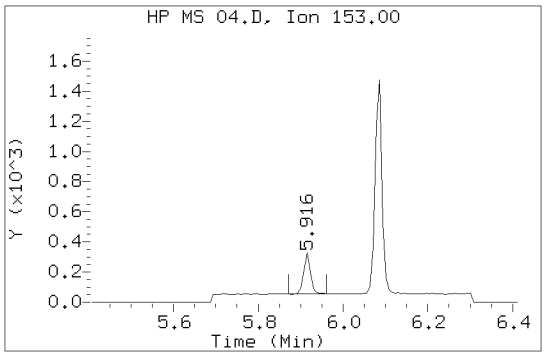
BEFORE

MASS
153
AREA
301
HEIGHT
274
18-Dec-2023
10:16
linh
pham



AFTER

MASS
153
AREA
301
HEIGHT
274
18-Dec-2023
10:16
linh
pham

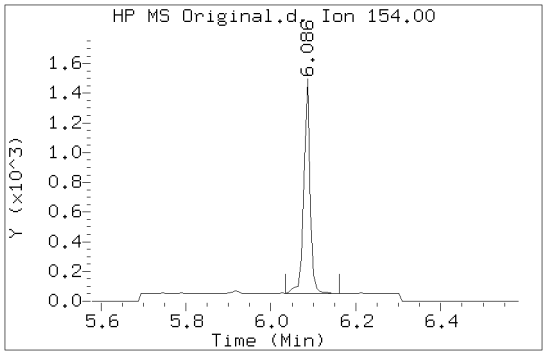


Acenaphthene (83-32-9)

Reason Code:

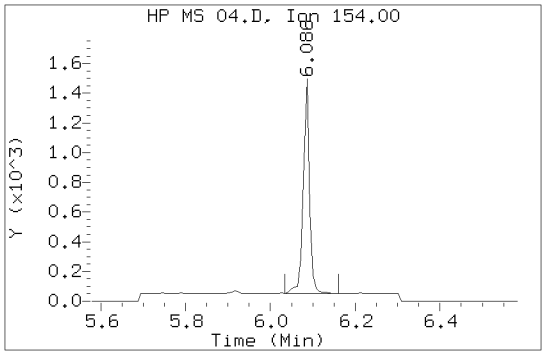
BEFORE

MASS
154
AREA
1535
HEIGHT
1443
18-Dec-2023
10:16
linh
pham



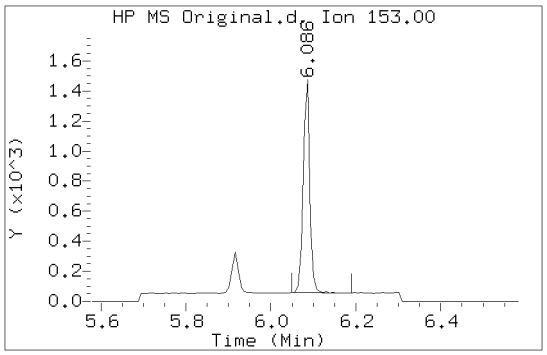
AFTER

MASS
154
AREA
1535
HEIGHT
1443
18-Dec-2023
10:16
linh
pham



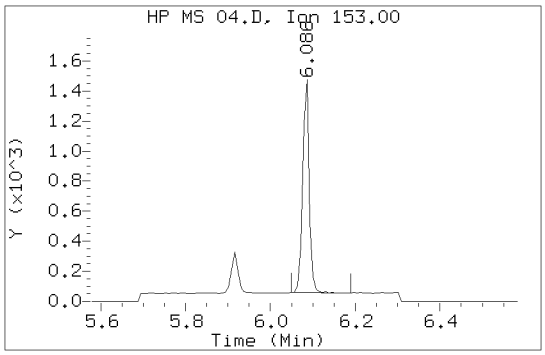
BEFORE

MASS
153
AREA
1563
HEIGHT
1417
18-Dec-2023
10:16
linh
pham



AFTER

MASS
153
AREA
1563
HEIGHT
1417
18-Dec-2023
10:16
linh
pham



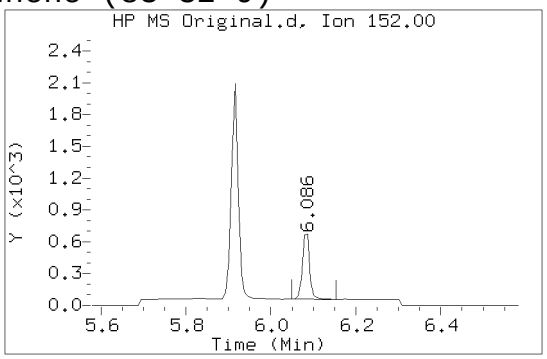
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\04.D
Inj Date : 12-DEC-2023 13:58
InstruID : SV6.i
LabSampID : PAHSIM-0.010

Acenaphthene (83-32-9)

Reason Code:

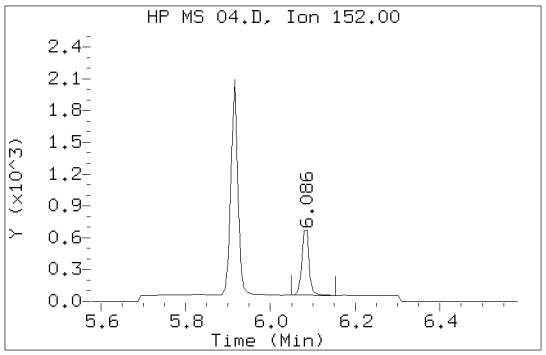
BEFORE

MASS
152
AREA
754
HEIGHT
613
18-Dec-2023
10:16
linh
pham



AFTER

MASS
152
AREA
754
HEIGHT
613
18-Dec-2023
10:16
linh
pham

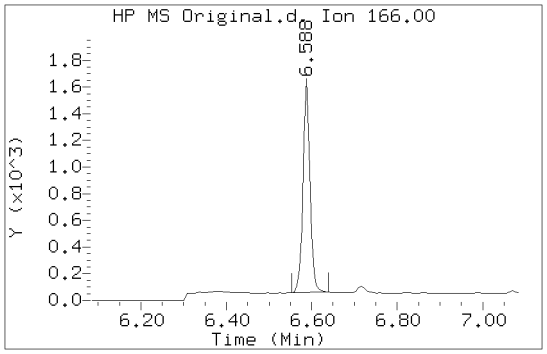


Fluorene (86-73-7)

Reason Code:

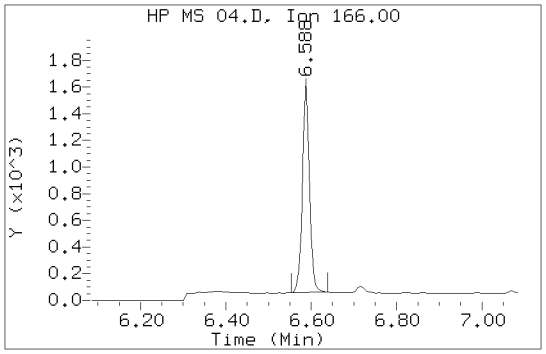
BEFORE

MASS
166
AREA
1791
HEIGHT
1603
18-Dec-2023
10:16
linh
pham



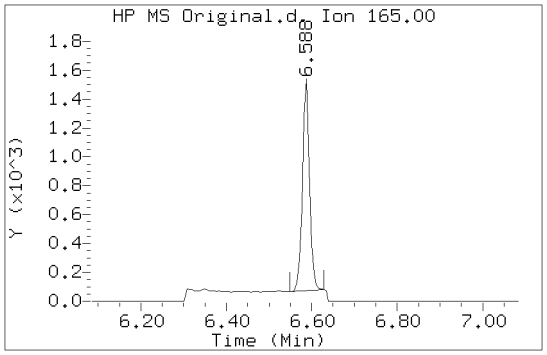
AFTER

MASS
166
AREA
1791
HEIGHT
1603
18-Dec-2023
10:16
linh
pham



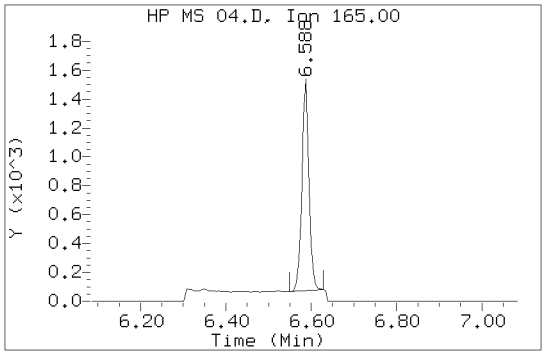
BEFORE

MASS
165
AREA
1668
HEIGHT
1466
18-Dec-2023
10:16
linh
pham



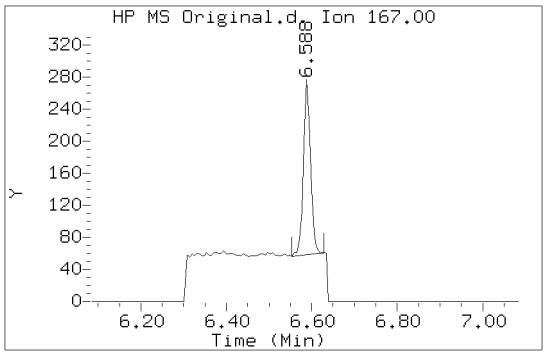
AFTER

MASS
165
AREA
1668
HEIGHT
1466
18-Dec-2023
10:16
linh
pham



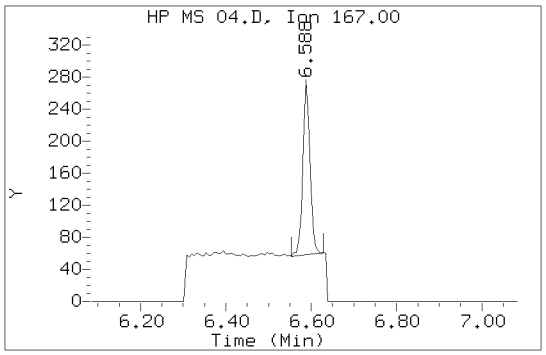
BEFORE

MASS
167
AREA
249
HEIGHT
218
18-Dec-2023
10:16
linh
pham



AFTER

MASS
167
AREA
249
HEIGHT
218
18-Dec-2023
10:16
linh
pham



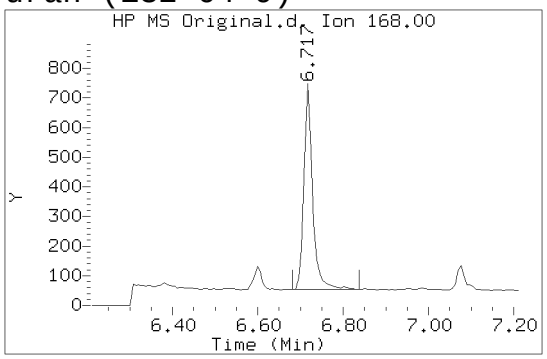
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Inj Date : 12-DEC-2023 13:58
InstruID : SV6.i
LabSampID : PAHSIM-0.010

Dibenzofuran (132-64-9)

Reason Code:

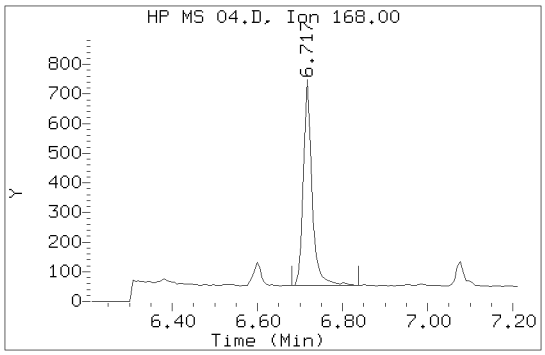
BEFORE

MASS
168
AREA
961
HEIGHT
694
18-Dec-2023
10:16
linh
pham



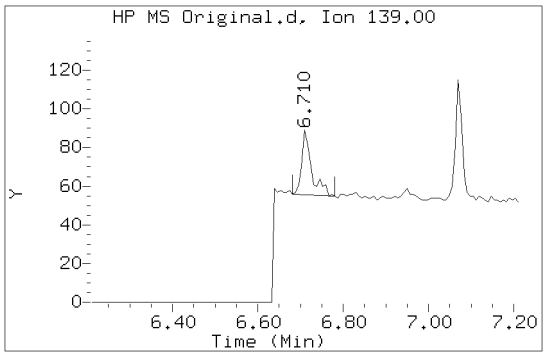
AFTER

MASS
168
AREA
961
HEIGHT
694
18-Dec-2023
10:16
linh
pham



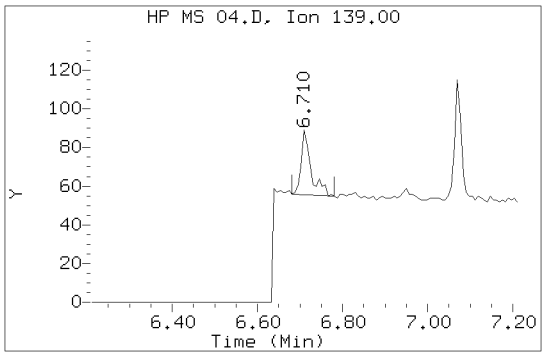
BEFORE

MASS
139
AREA
52
HEIGHT
33
18-Dec-2023
10:16
linh
pham



AFTER

MASS
139
AREA
52
HEIGHT
33
18-Dec-2023
10:16
linh
pham

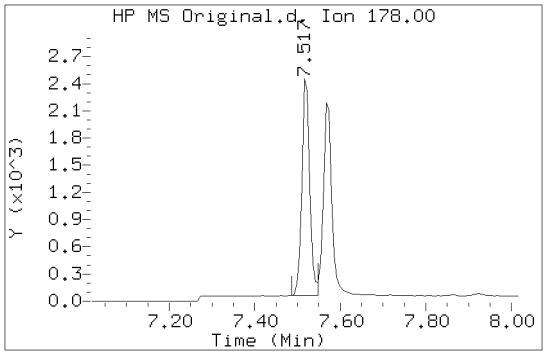


Phenanthrene (85-01-8)

Reason Code:

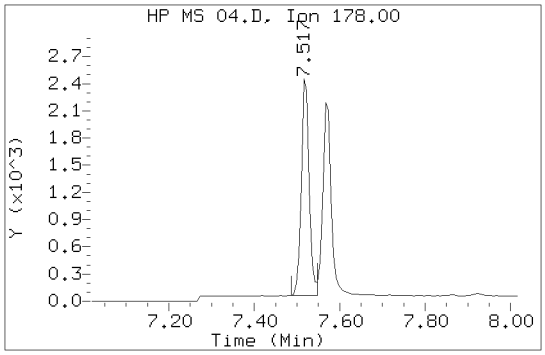
BEFORE

MASS
178
AREA
3022
HEIGHT
2389
18-Dec-2023
10:16
linh
pham



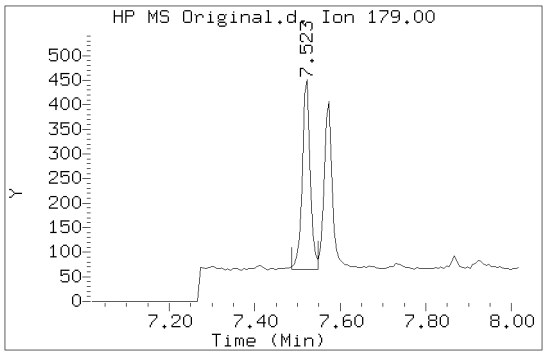
AFTER

MASS
178
AREA
3022
HEIGHT
2389
18-Dec-2023
10:16
linh
pham



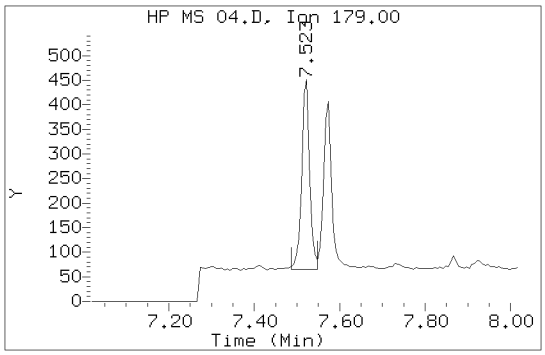
BEFORE

MASS
179
AREA
494
HEIGHT
386
18-Dec-2023
10:16
linh
pham



AFTER

MASS
179
AREA
494
HEIGHT
386
18-Dec-2023
10:16
linh
pham



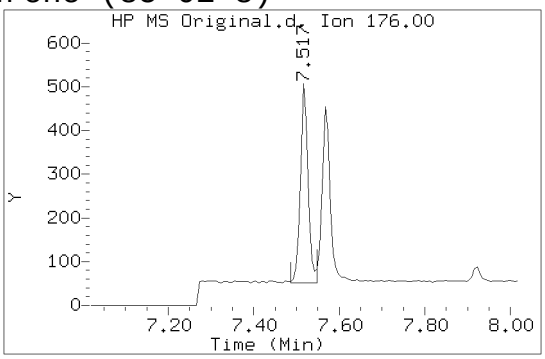
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Inj Date : 12-DEC-2023 13:58
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LabSampID : PAHSIM-0.010

Phenanthrene (85-01-8)

Reason Code:

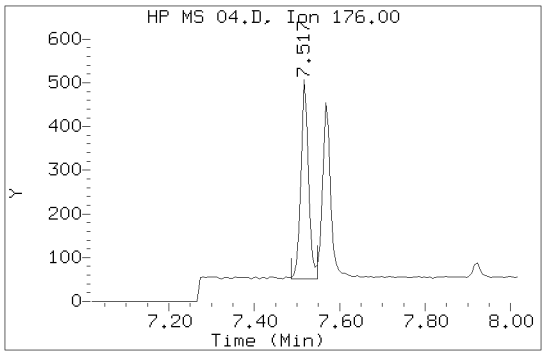
BEFORE

MASS
176
AREA
568
HEIGHT
456
18-Dec-2023
10:16
linh
pham



AFTER

MASS
176
AREA
568
HEIGHT
456
18-Dec-2023
10:16
linh
pham

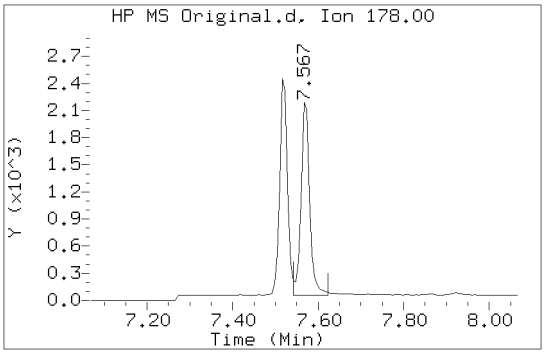


Anthracene (120-12-7)

Reason Code:

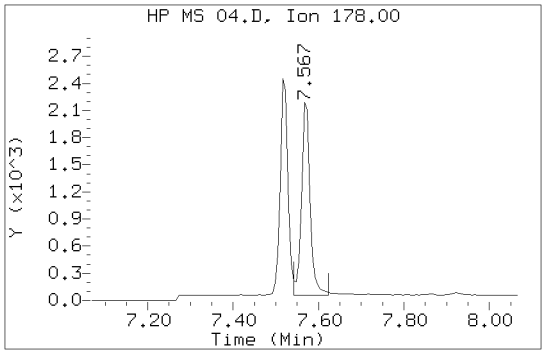
BEFORE

MASS
178
AREA
2993
HEIGHT
2136
18-Dec-2023
10:16
linh
pham



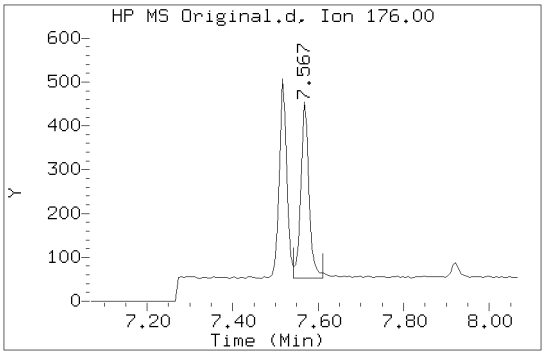
AFTER

MASS
178
AREA
2993
HEIGHT
2136
18-Dec-2023
10:16
linh
pham



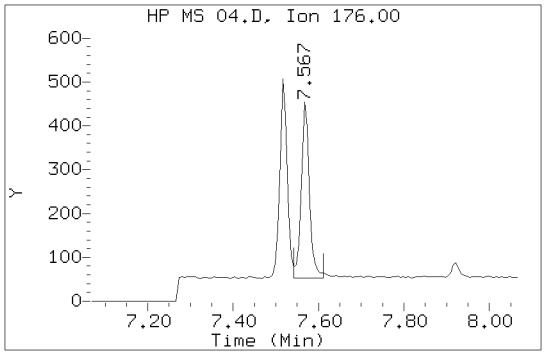
BEFORE

MASS
176
AREA
527
HEIGHT
401
18-Dec-2023
10:16
linh
pham



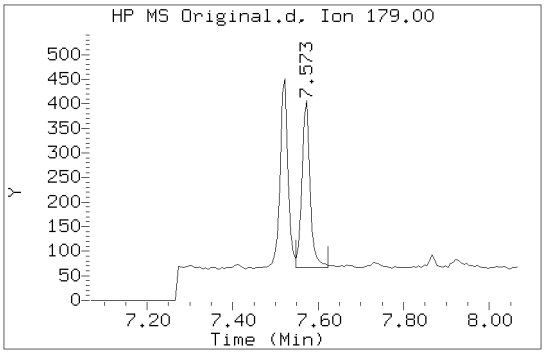
AFTER

MASS
176
AREA
527
HEIGHT
401
18-Dec-2023
10:16
linh
pham



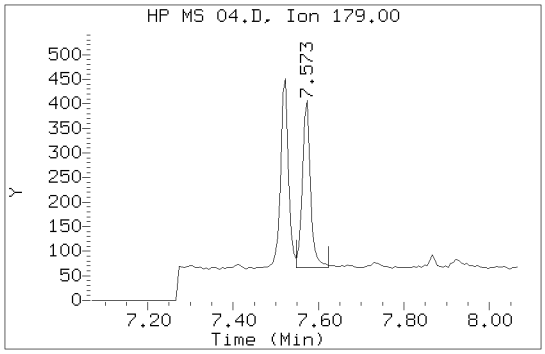
BEFORE

MASS
179
AREA
452
HEIGHT
341
18-Dec-2023
10:16
linh
pham



AFTER

MASS
179
AREA
452
HEIGHT
341
18-Dec-2023
10:16
linh
pham

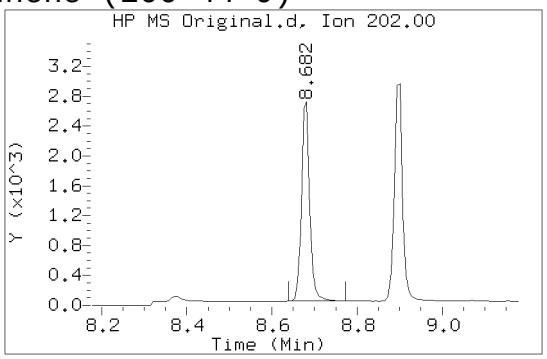


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Inj Date : 12-DEC-2023 13:58
InstruID : SV6.i
LabSampID : PAHSIM-0.010

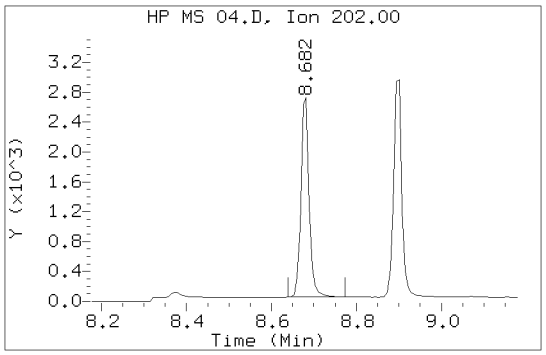
Fluoranthene (206-44-0)

Reason Code:

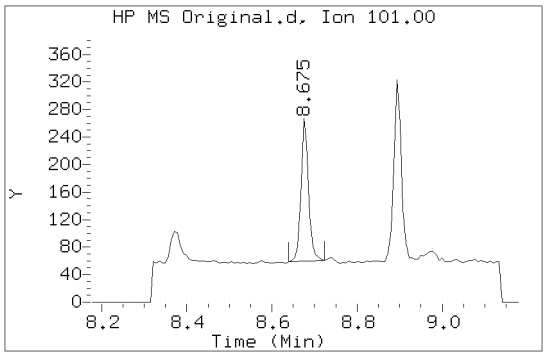
BEFORE
MASS
202
AREA
3567
HEIGHT
2671
18-Dec-2023
10:16
linh
pham



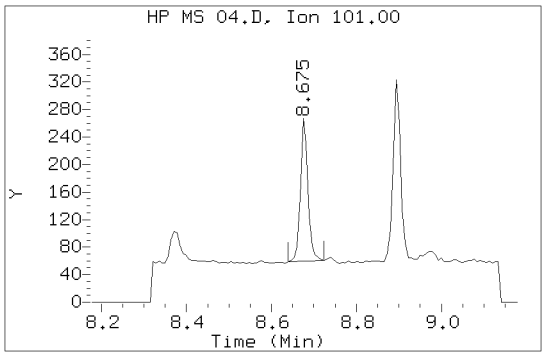
AFTER
MASS
202
AREA
3567
HEIGHT
2671
18-Dec-2023
10:16
linh
pham



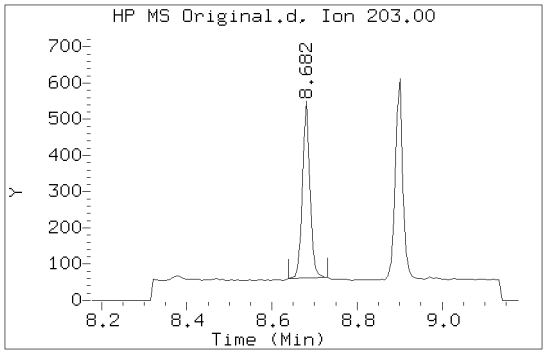
BEFORE
MASS
101
AREA
253
HEIGHT
207
18-Dec-2023
10:16
linh
pham



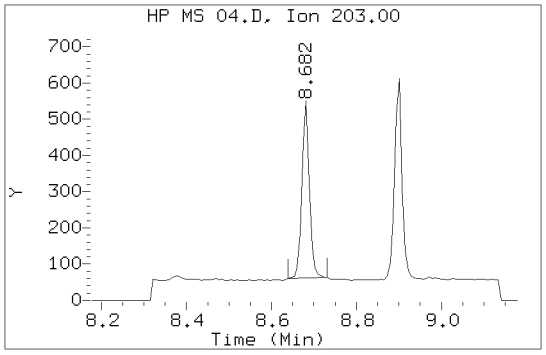
AFTER
MASS
101
AREA
253
HEIGHT
207
18-Dec-2023
10:16
linh
pham



BEFORE
MASS
203
AREA
598
HEIGHT
489
18-Dec-2023
10:16
linh
pham



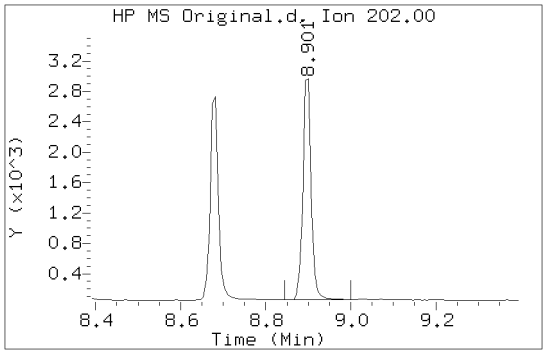
AFTER
MASS
203
AREA
598
HEIGHT
489
18-Dec-2023
10:16
linh
pham



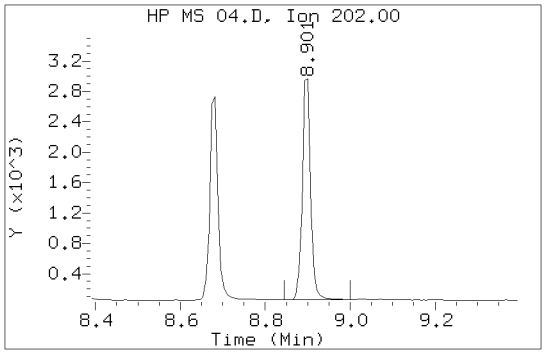
Pyrene (129-00-0)

Reason Code:

BEFORE
MASS
202
AREA
3927
HEIGHT
2910
18-Dec-2023
10:16
linh
pham



AFTER
MASS
202
AREA
3927
HEIGHT
2910
18-Dec-2023
10:16
linh
pham



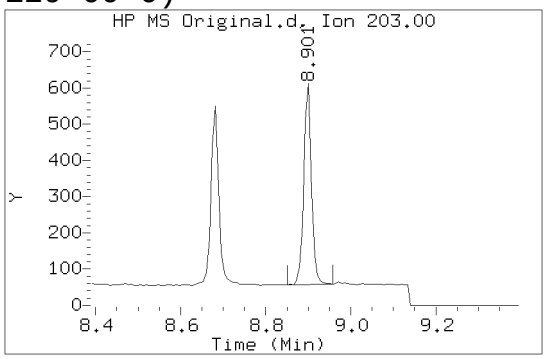
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\04.D
Inj Date : 12-DEC-2023 13:58
InstruID : SV6.i
LabSampID : PAHSIM-0.010

Pyrene (129-00-0)

Reason Code:

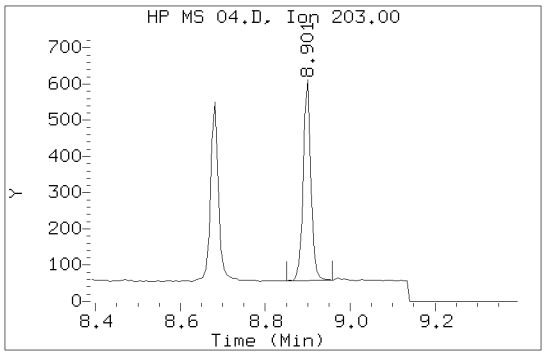
BEFORE

MASS
203
AREA
683
HEIGHT
554
18-Dec-2023
10:16
linh
pham



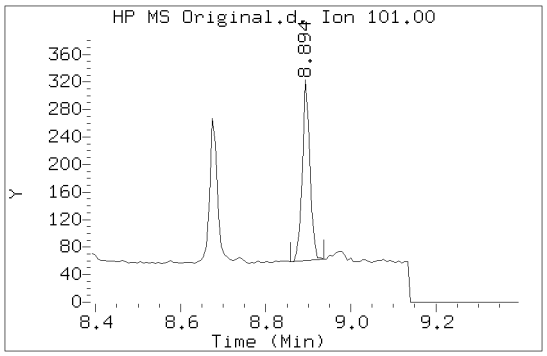
AFTER

MASS
203
AREA
683
HEIGHT
554
18-Dec-2023
10:16
linh
pham



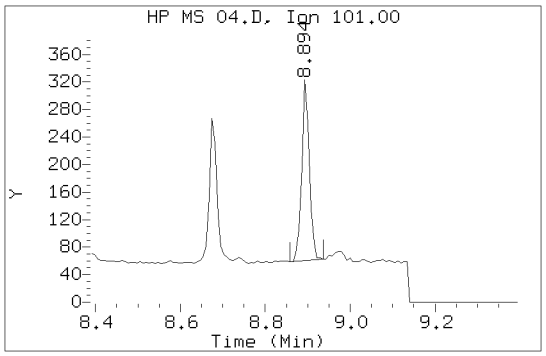
BEFORE

MASS
101
AREA
319
HEIGHT
262
18-Dec-2023
10:16
linh
pham



AFTER

MASS
101
AREA
319
HEIGHT
262
18-Dec-2023
10:16
linh
pham

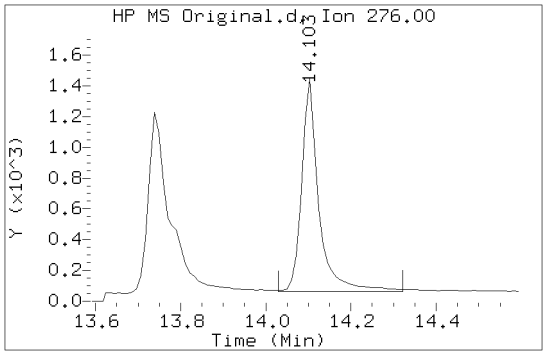


Benzo(g,h,i)perylene (191-24-2)

Reason Code:

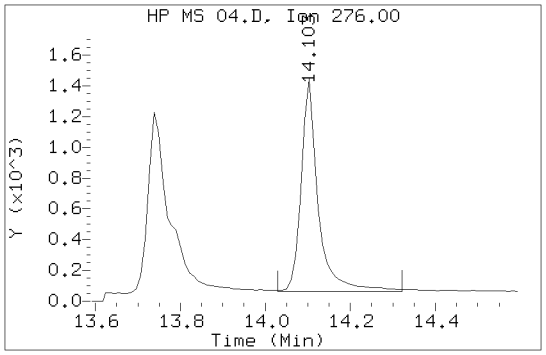
BEFORE

MASS
276
AREA
3852
HEIGHT
1382
18-Dec-2023
10:16
linh
pham



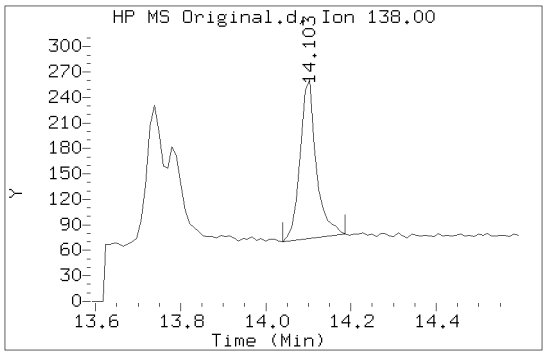
AFTER

MASS
276
AREA
3852
HEIGHT
1382
18-Dec-2023
10:16
linh
pham



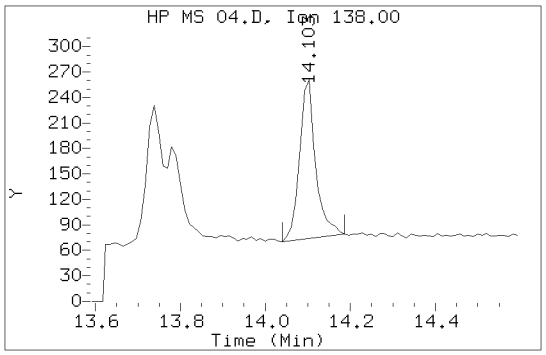
BEFORE

MASS
138
AREA
488
HEIGHT
187
18-Dec-2023
10:16
linh
pham



AFTER

MASS
138
AREA
488
HEIGHT
187
18-Dec-2023
10:16
linh
pham

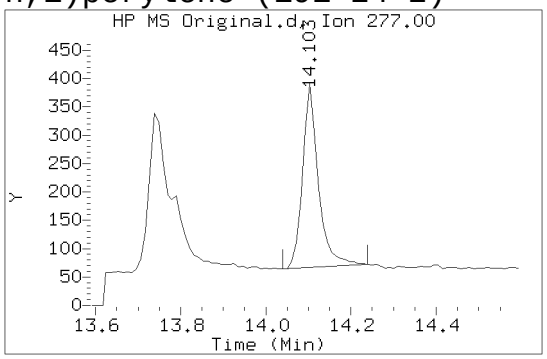


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Inj Date : 12-DEC-2023 13:58
InstruID : SV6.i
LabSampID : PAHSIM-0.010

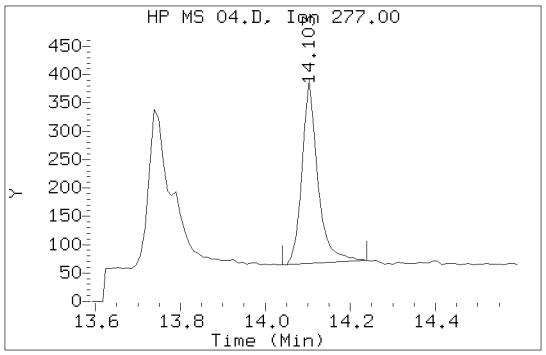
Benzo(g,h,i)perylene (191-24-2)

Reason Code:

BEFORE
MASS
277
AREA
820
HEIGHT
323
18-Dec-2023
10:16
linh
pham



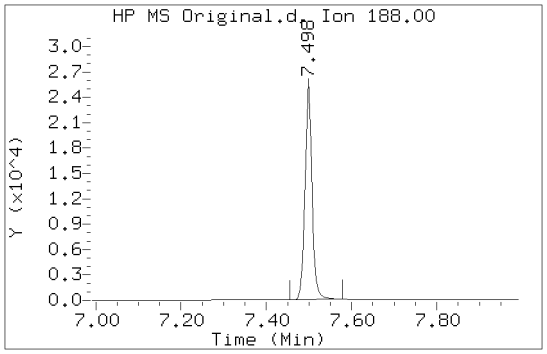
AFTER
MASS
277
AREA
820
HEIGHT
323
18-Dec-2023
10:16
linh
pham



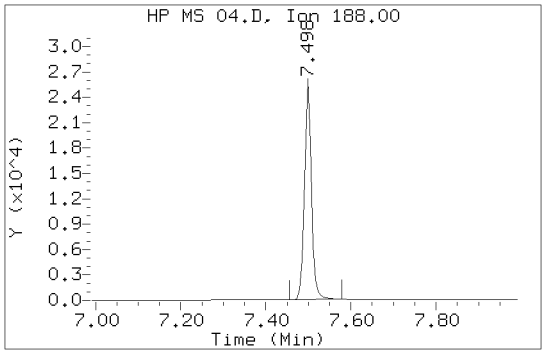
Phenanthrene-d10 (1517-22-2)

Reason Code:

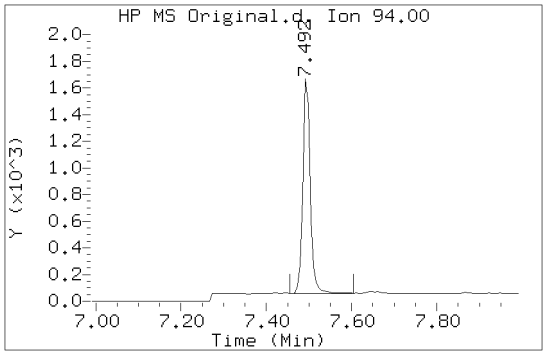
BEFORE
MASS
188
AREA
28419
HEIGHT
26124
18-Dec-2023
10:16
linh
pham



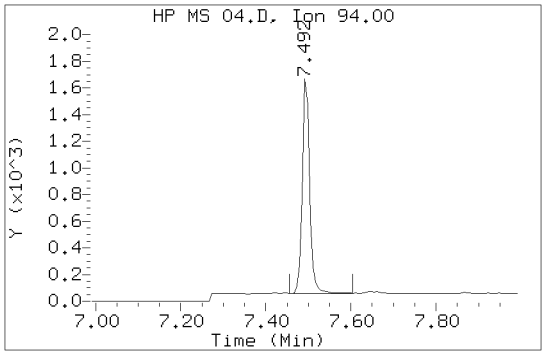
AFTER
MASS
188
AREA
28419
HEIGHT
26124
18-Dec-2023
10:16
linh
pham



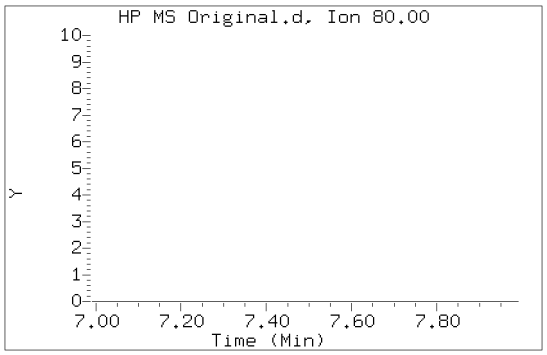
BEFORE
MASS
94
AREA
1865
HEIGHT
1608
18-Dec-2023
10:16
linh
pham



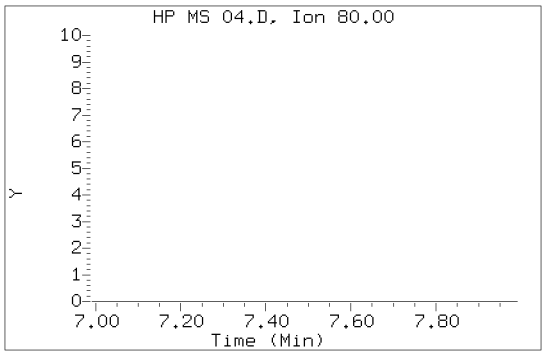
AFTER
MASS
94
AREA
1865
HEIGHT
1608
18-Dec-2023
10:16
linh
pham



BEFORE
MASS
80
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER
MASS
80
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham

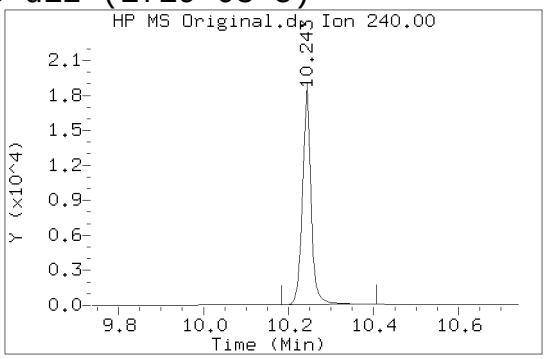


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Inj Date : 12-DEC-2023 13:58
InstruID : SV6.i
LabSampID : PAHSIM-0.010

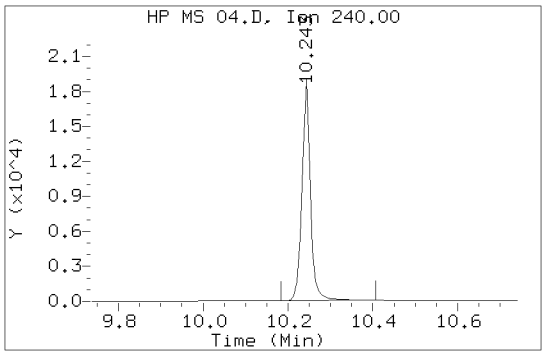
Chrysene-d12 (1719-03-5)

Reason Code:

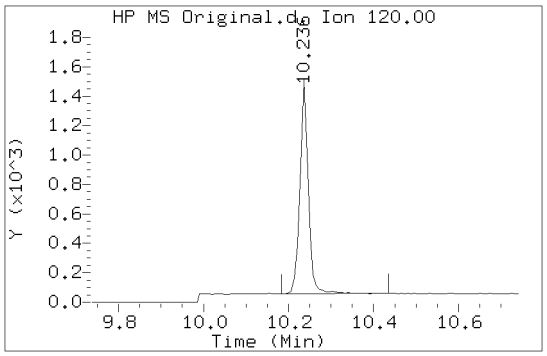
BEFORE
MASS
240
AREA
26412
HEIGHT
18940
18-Dec-2023
10:16
linh
pham



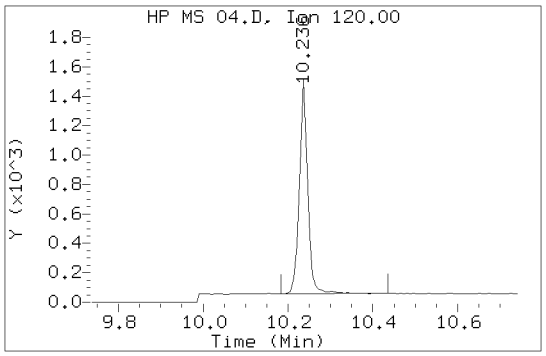
AFTER
MASS
240
AREA
26412
HEIGHT
18940
18-Dec-2023
10:16
linh
pham



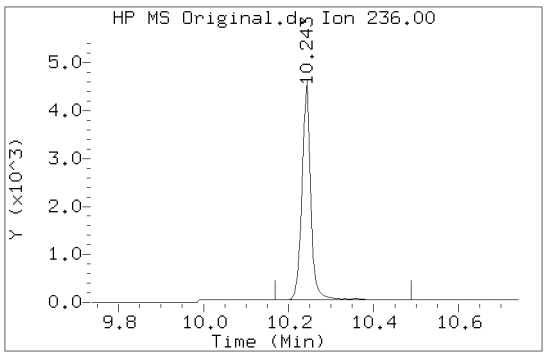
BEFORE
MASS
120
AREA
1988
HEIGHT
1454
18-Dec-2023
10:16
linh
pham



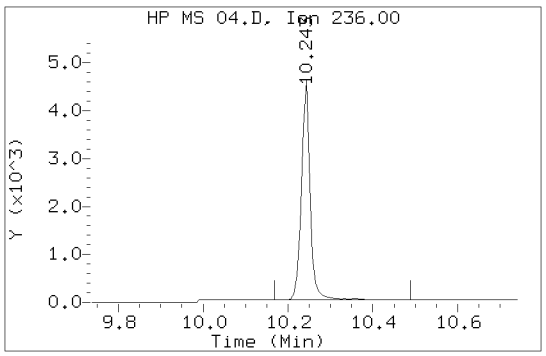
AFTER
MASS
120
AREA
1988
HEIGHT
1454
18-Dec-2023
10:16
linh
pham



BEFORE
MASS
236
AREA
6570
HEIGHT
4574
18-Dec-2023
10:16
linh
pham



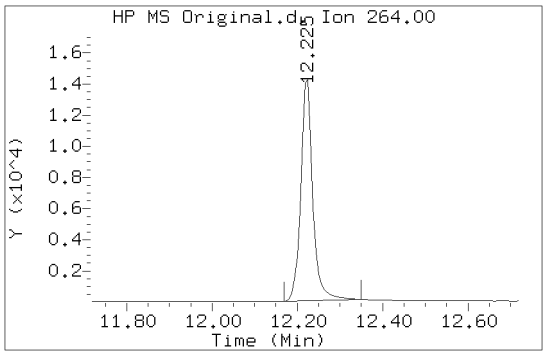
AFTER
MASS
236
AREA
6570
HEIGHT
4574
18-Dec-2023
10:16
linh
pham



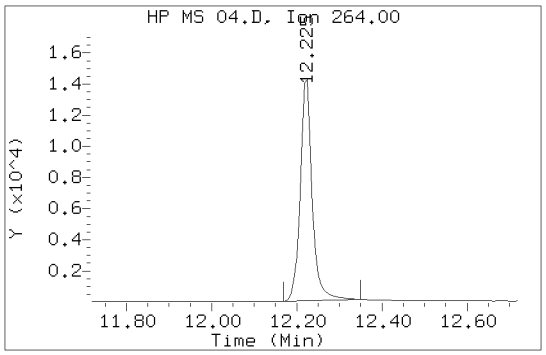
Perylene-d12 (1520-96-3)

Reason Code:

BEFORE
MASS
264
AREA
28037
HEIGHT
14192
18-Dec-2023
10:16
linh
pham



AFTER
MASS
264
AREA
28037
HEIGHT
14192
18-Dec-2023
10:16
linh
pham



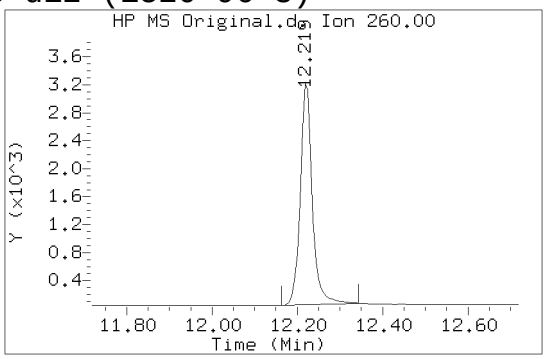
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Inj Date : 12-DEC-2023 13:58
InstruID : SV6.i
LabSampID : PAHSIM-0.010

Perylene-d12 (1520-96-3)

Reason Code:

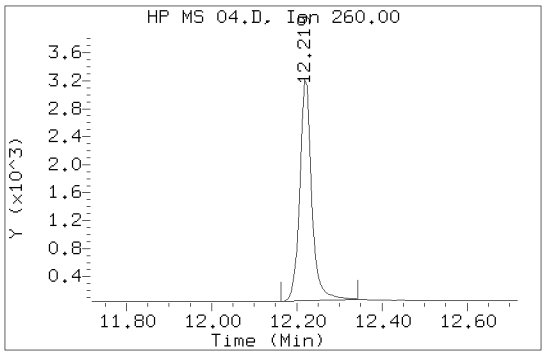
BEFORE

MASS
260
AREA
6252
HEIGHT
3158
18-Dec-2023
10:16
linh
pham



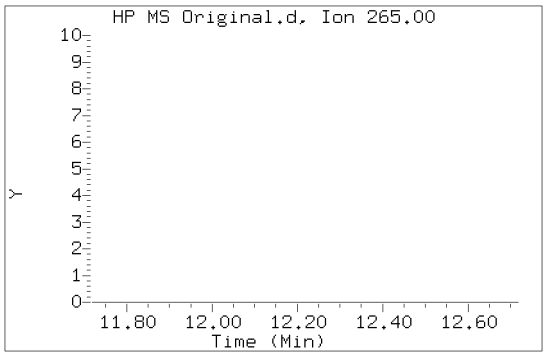
AFTER

MASS
260
AREA
6252
HEIGHT
3158
18-Dec-2023
10:16
linh
pham



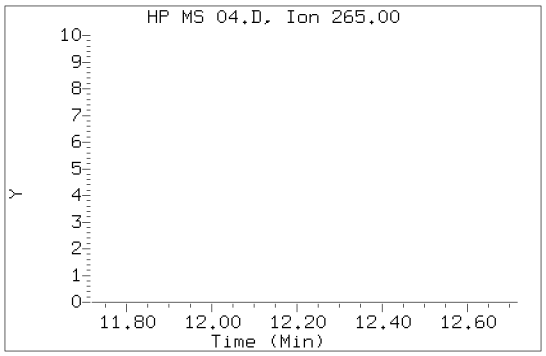
BEFORE

MASS
265
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
265
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham

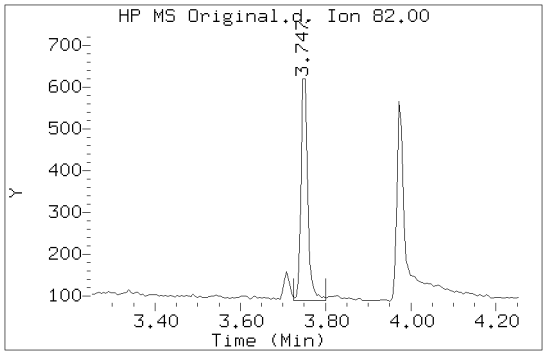


Nitrobenzene-d5 (4165-60-0)

Reason Code:

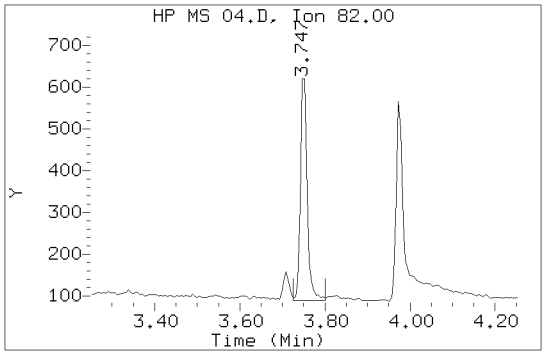
BEFORE

MASS
82
AREA
588
HEIGHT
532
18-Dec-2023
10:16
linh
pham



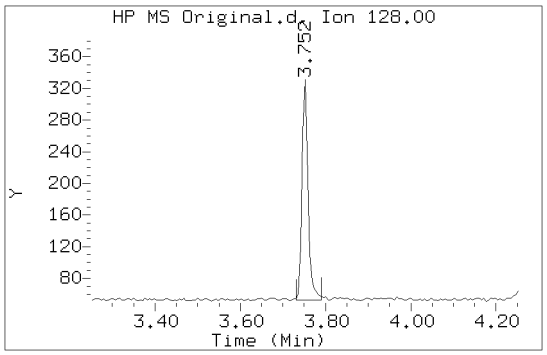
AFTER

MASS
82
AREA
588
HEIGHT
532
18-Dec-2023
10:16
linh
pham



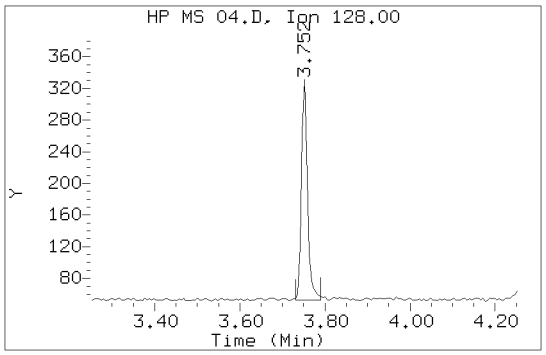
BEFORE

MASS
128
AREA
268
HEIGHT
278
18-Dec-2023
10:16
linh
pham



AFTER

MASS
128
AREA
268
HEIGHT
278
18-Dec-2023
10:16
linh
pham



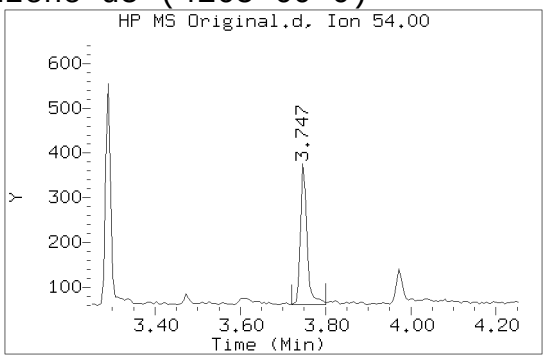
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Inj Date : 12-DEC-2023 13:58
InstruID : SV6.i
LabSampID : PAHSIM-0.010

Nitrobenzene-d5 (4165-60-0)

Reason Code:

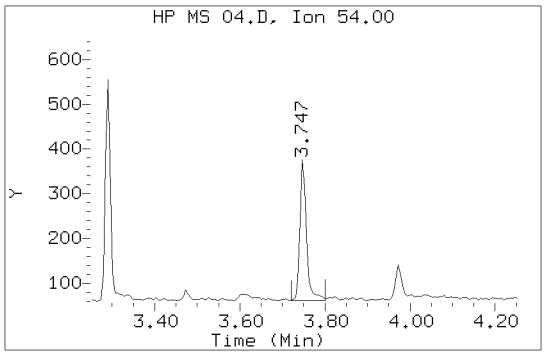
BEFORE

MASS
54
AREA
332
HEIGHT
314
18-Dec-2023
10:16
linh
pham



AFTER

MASS
54
AREA
332
HEIGHT
314
18-Dec-2023
10:16
linh
pham

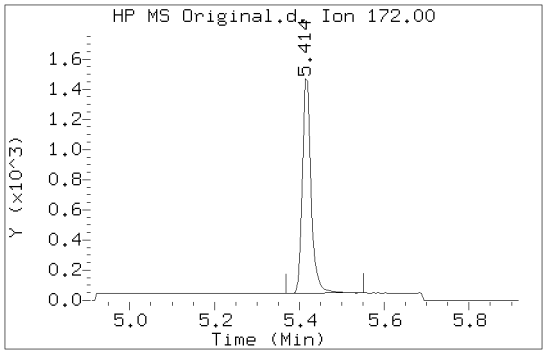


2-Fluorobiphenyl (321-60-8)

Reason Code:

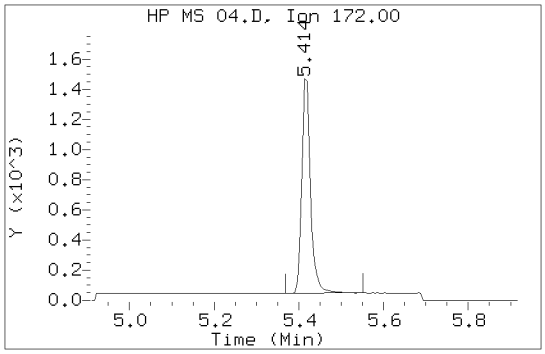
BEFORE

MASS
172
AREA
2011
HEIGHT
1422
18-Dec-2023
10:16
linh
pham



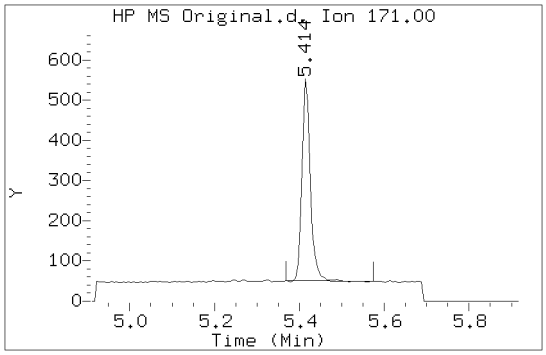
AFTER

MASS
172
AREA
2011
HEIGHT
1422
18-Dec-2023
10:16
linh
pham



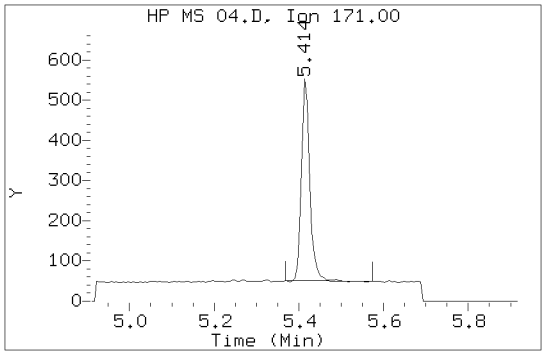
BEFORE

MASS
171
AREA
673
HEIGHT
502
18-Dec-2023
10:16
linh
pham



AFTER

MASS
171
AREA
673
HEIGHT
502
18-Dec-2023
10:16
linh
pham



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\231212.b\05.D
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Inj Date : 12-DEC-2023 14:18
Operator : LG Inst ID: SV6.i
Smp Info : PAHSIM-0.025
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\231212.b\PAHSIM1.m
Meth Date : 18-Dec-2023 10:17 SV6.i Quant Type: ISTD
Cal Date : 12-DEC-2023 13:58 Cal File: 04.D
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: llpahdbf.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 45 Naphthalene-d8	136	4.391	4.391	(1.000)	20835	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.747	3.747	(0.853)	1606	0.02500	0.02795(M)
* 86 Acenaphthene-d10	164	6.058	6.058	(1.000)	12667	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	5.413	5.413	(0.894)	5723	0.02500	0.02837(M)
* 126 Phenanthrene-d10	188	7.498	7.498	(1.000)	26652	0.10000	(M)
* 182 Chrysene-d12	240	10.235	10.235	(1.000)	24444	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.070	9.070	(0.886)	6999	0.02500	0.02820(M)
* 198 Perylene-d12	264	12.218	12.218	(1.000)	25730	0.10000	(M)
46 Naphthalene	128	4.407	4.407	(1.004)	6558	0.02500	0.02869(M)
61 2-Methylnaphthalene	142	5.059	5.059	(1.152)	4276	0.02500	0.02797(M)
62 1-Methylnaphthalene	142	5.151	5.151	(1.173)	3948	0.02500	0.02768(M)
83 Acenaphthylene	152	5.910	5.910	(0.976)	6461	0.02500	0.02790(M)
88 Acenaphthene	154	6.080	6.080	(1.004)	4156	0.02500	0.02846(M)
98 Fluorene	166	6.588	6.588	(1.087)	5027	0.02500	0.02800
92 Dibenzofuran	168	6.717	6.717	(1.109)	2602	0.02500	0.02748(M)
128 Phenanthrene	178	7.517	7.517	(1.002)	8192	0.02500	0.02808(M)
130 Anthracene	178	7.566	7.566	(1.009)	8121	0.02500	0.02794(M)
149 Fluoranthene	202	8.674	8.674	(1.157)	9509	0.02500	0.02740(M)
155 Pyrene	202	8.893	8.893	(0.869)	9943	0.02500	0.02798(M)

181	Benzo(a)Anthracene	228	10.221	10.221 (0.999)	9234	0.02500	0.02786(M)
183	Chrysene	228	10.265	10.265 (1.003)	10622	0.02500	0.02875(M)

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(NG)	(NG)
192 Benzo(b)fluoranthene	252	11.669	11.669	(0.955)	9331	0.02500	0.02921
195 Benzo(k)fluoranthene	252	11.712	11.712	(0.959)	10238	0.02500	0.02649(M)
197 Benzo(a)pyrene	252	12.131	12.131	(0.993)	8585	0.02500	0.02773(M)
209 Indeno(1,2,3-cd)pyrene	276	13.738	13.738	(1.124)	10312	0.02500	0.02784(M)
210 Dibenzo(a,h)anthracene	278	13.790	13.790	(1.129)	8280	0.02500	0.02691(QM)
212 Benzo(g,h,i)perylene	276	14.092	14.092	(1.153)	8760	0.02500	0.02648(M)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\231212.b\05.D

Date : 12-DEC-2023 14:18

Client ID: PAHSIM-0.025

Instrument: SV6.i

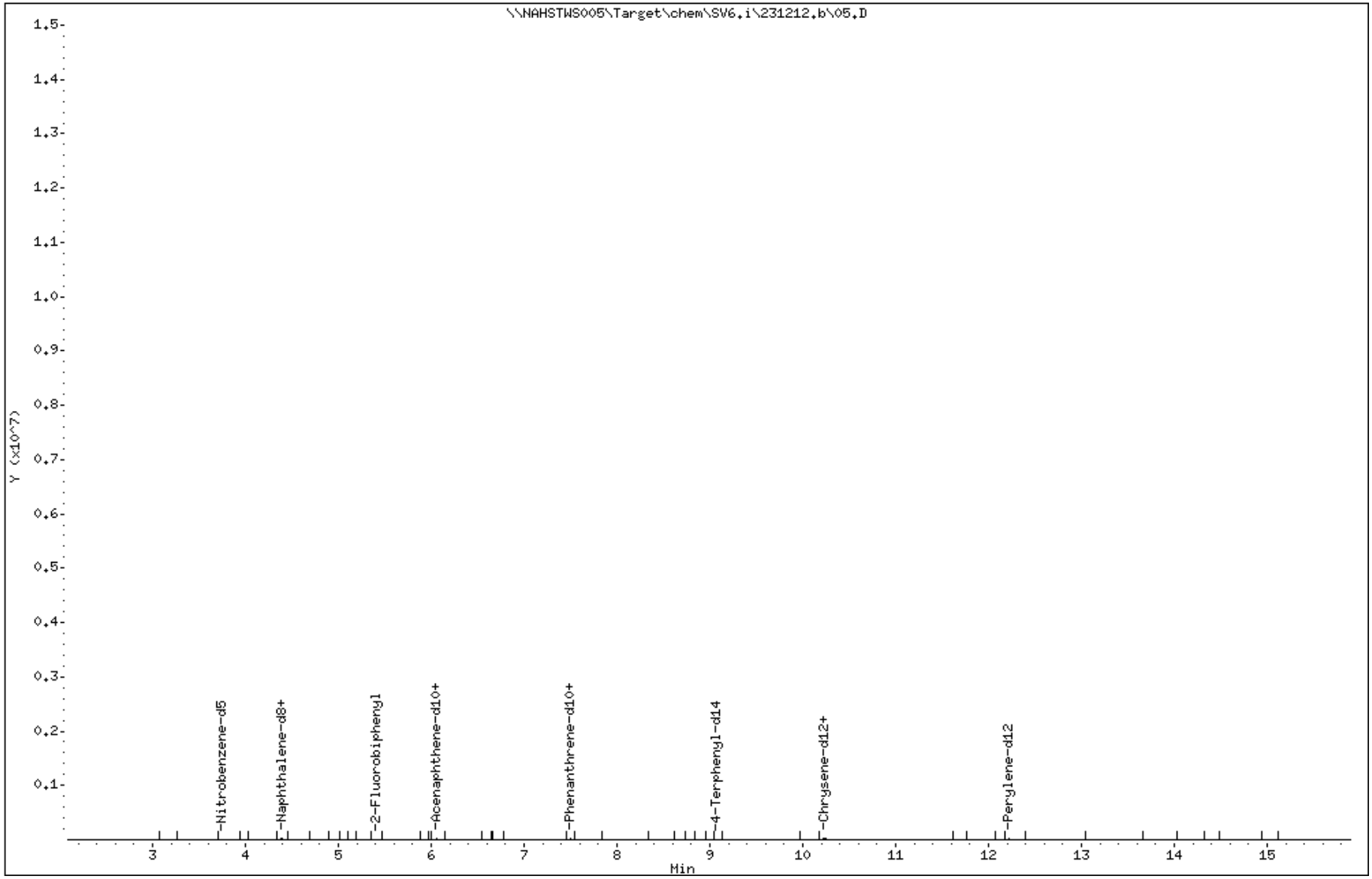
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Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



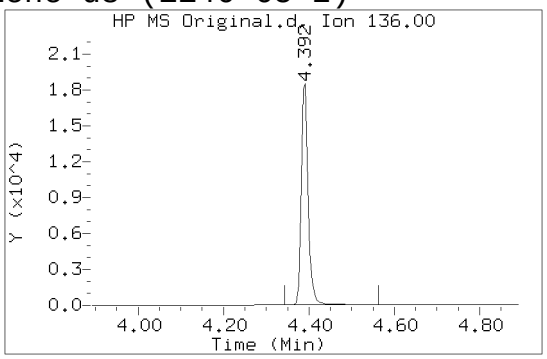
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Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

Naphthalene-d8 (1146-65-2)

Reason Code:

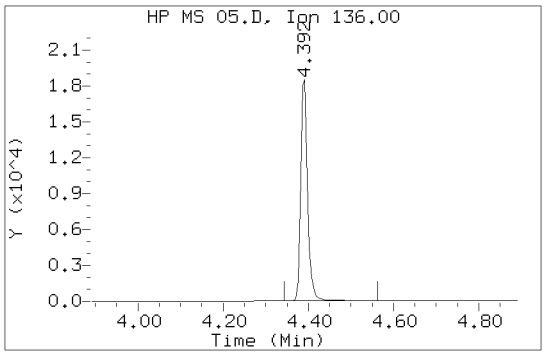
BEFORE

MASS
136
AREA
20835
HEIGHT
18471
18-Dec-2023
10:16
linh
pham



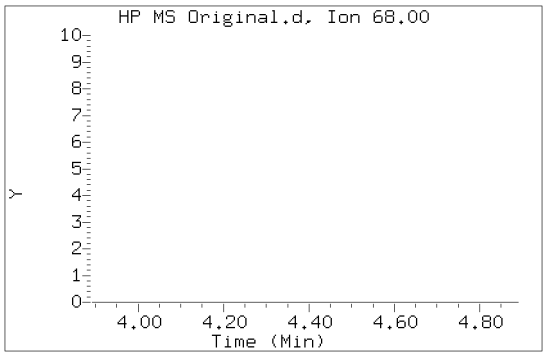
AFTER

MASS
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AREA
20835
HEIGHT
18471
18-Dec-2023
10:16
linh
pham



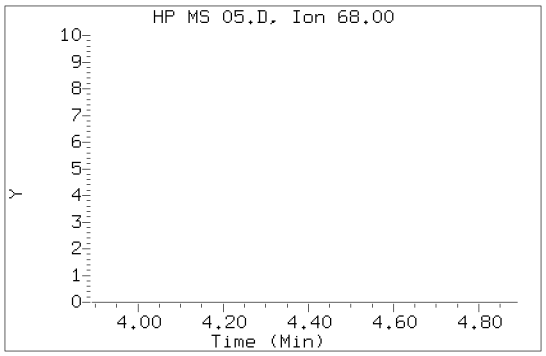
BEFORE

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AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
68
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham

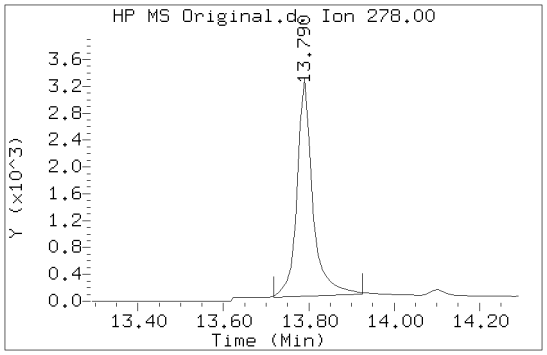


Dibenzo(a,h)anthracene (53-70-3)

Reason Code:

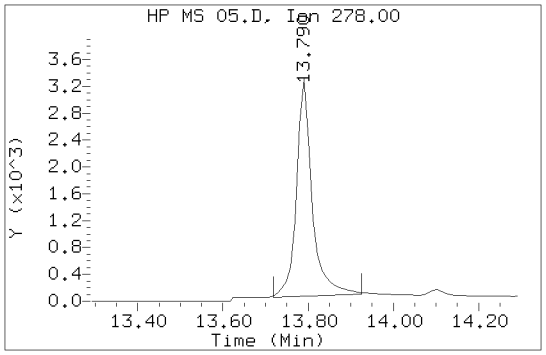
BEFORE

MASS
278
AREA
8280
HEIGHT
3237
18-Dec-2023
10:16
linh
pham



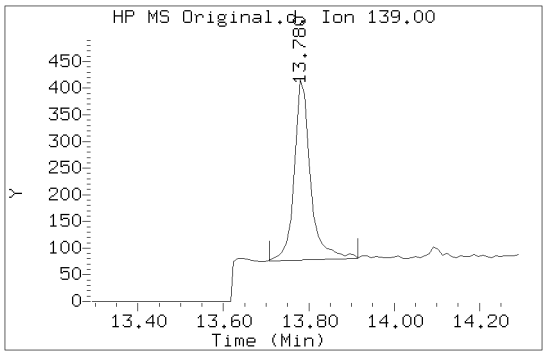
AFTER

MASS
278
AREA
8280
HEIGHT
3237
18-Dec-2023
10:16
linh
pham



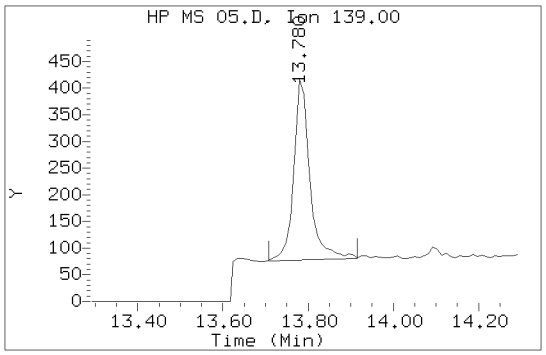
BEFORE

MASS
139
AREA
892
HEIGHT
338
18-Dec-2023
10:16
linh
pham



AFTER

MASS
139
AREA
892
HEIGHT
338
18-Dec-2023
10:16
linh
pham



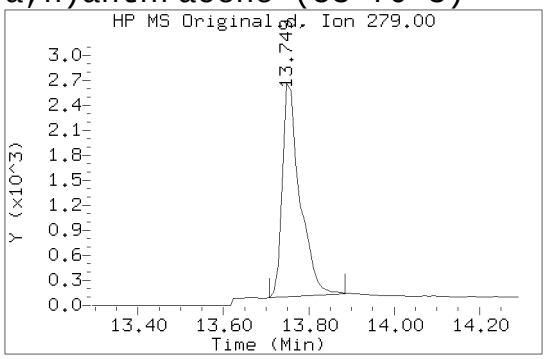
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Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

Dibenzo(a,h)anthracene (53-70-3)

Reason Code:

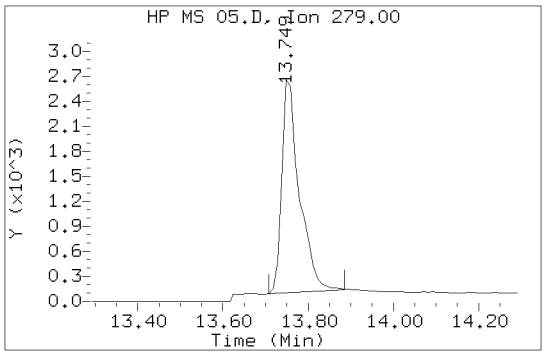
BEFORE

MASS
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AREA
7371
HEIGHT
2561
18-Dec-2023
10:16
linh
pham



AFTER

MASS
279
AREA
7371
HEIGHT
2561
18-Dec-2023
10:16
linh
pham

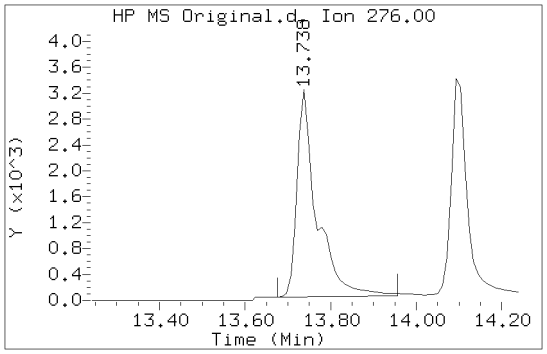


Indeno(1,2,3-cd)pyrene (193-39-5)

Reason Code:

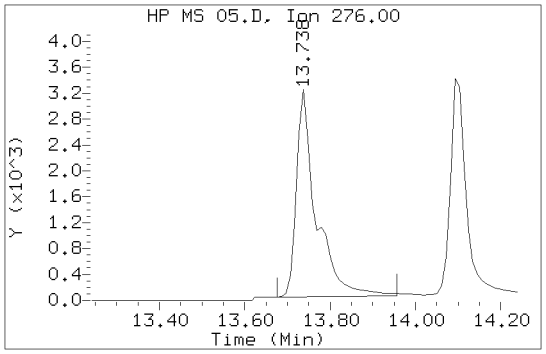
BEFORE

MASS
276
AREA
10312
HEIGHT
3199
18-Dec-2023
10:16
linh
pham



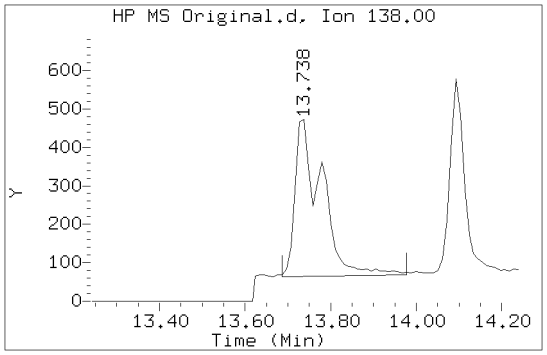
AFTER

MASS
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AREA
10312
HEIGHT
3199
18-Dec-2023
10:16
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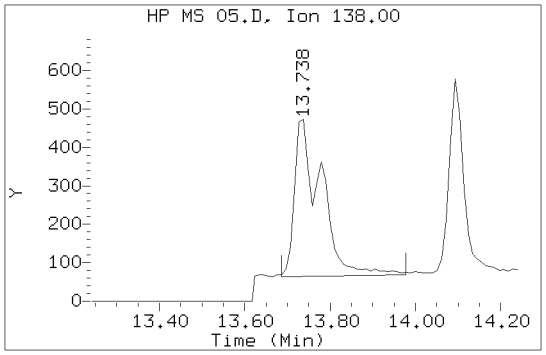
BEFORE

MASS
138
AREA
1777
HEIGHT
408
18-Dec-2023
10:16
linh
pham



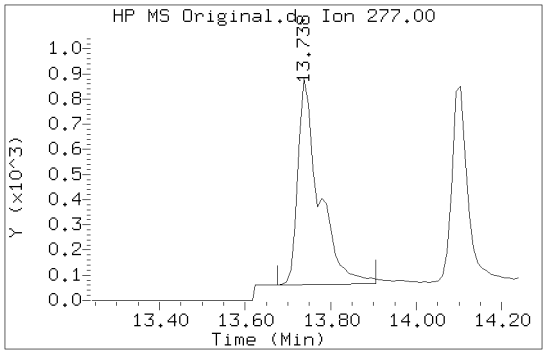
AFTER

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138
AREA
1777
HEIGHT
408
18-Dec-2023
10:16
linh
pham



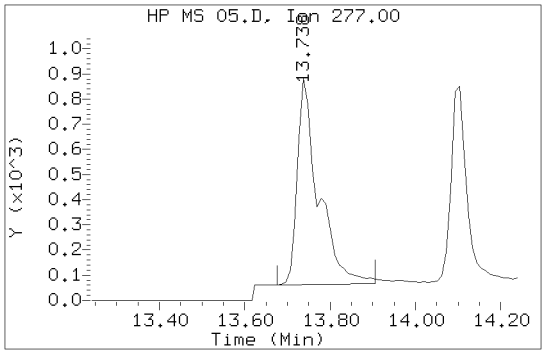
BEFORE

MASS
277
AREA
2831
HEIGHT
817
18-Dec-2023
10:16
linh
pham



AFTER

MASS
277
AREA
2831
HEIGHT
817
18-Dec-2023
10:16
linh
pham

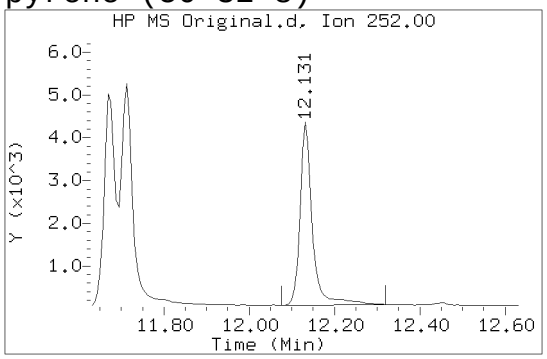


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LabSampID : PAHSIM-0.025

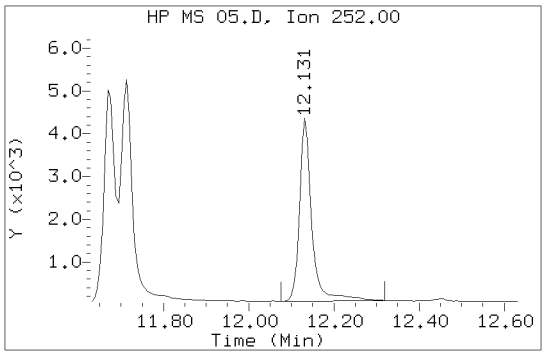
Benzo(a)pyrene (50-32-8)

Reason Code:

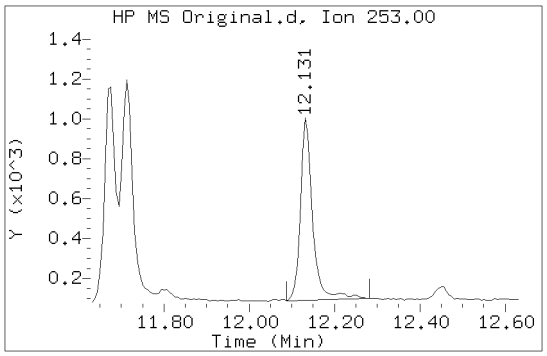
BEFORE
MASS
252
AREA
8585
HEIGHT
4276
18-Dec-2023
10:16
linh
pham



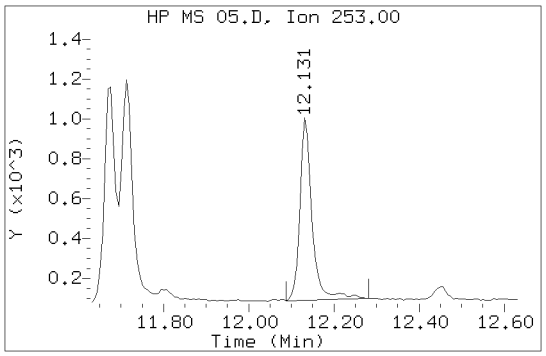
AFTER
MASS
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AREA
8585
HEIGHT
4276
18-Dec-2023
10:16
linh
pham



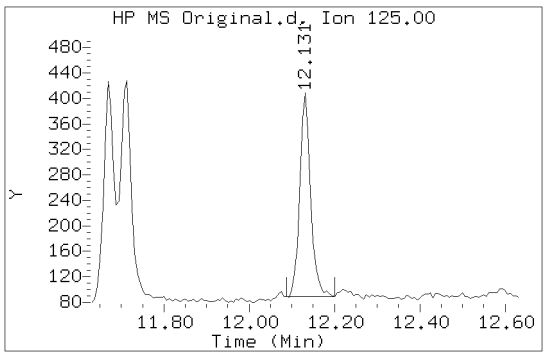
BEFORE
MASS
253
AREA
1832
HEIGHT
915
18-Dec-2023
10:16
linh
pham



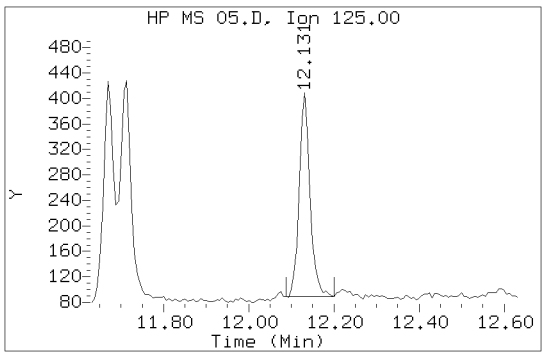
AFTER
MASS
253
AREA
1832
HEIGHT
915
18-Dec-2023
10:16
linh
pham



BEFORE
MASS
125
AREA
572
HEIGHT
320
18-Dec-2023
10:16
linh
pham



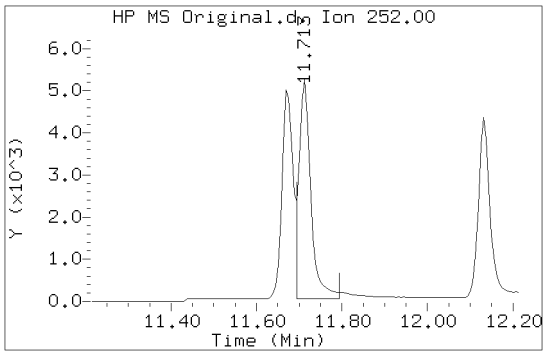
AFTER
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AREA
572
HEIGHT
320
18-Dec-2023
10:16
linh
pham



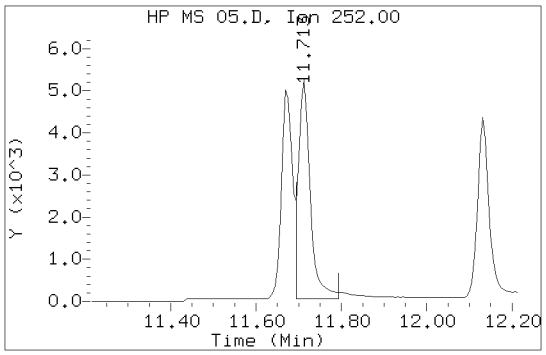
Benzo(k)fluoranthene (207-08-9)

Reason Code:

BEFORE
MASS
252
AREA
10238
HEIGHT
5202
18-Dec-2023
10:16
linh
pham



AFTER
MASS
252
AREA
10238
HEIGHT
5202
18-Dec-2023
10:16
linh
pham

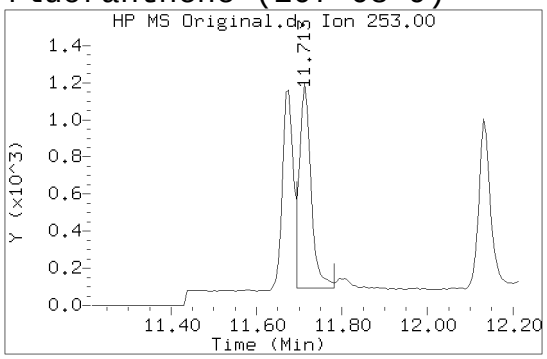


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Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

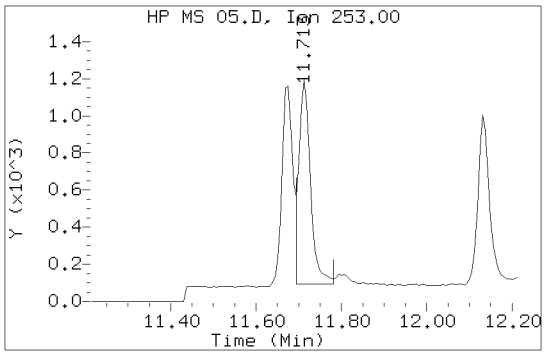
Benzo(k)fluoranthene (207-08-9)

Reason Code:

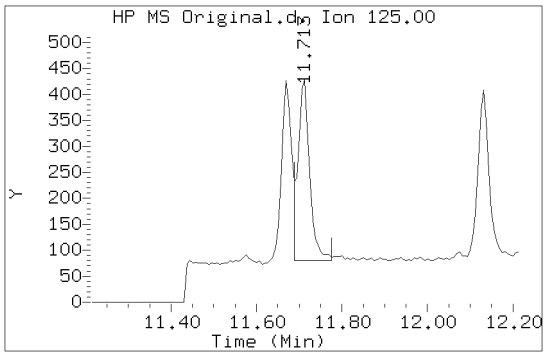
BEFORE
MASS
253
AREA
2145
HEIGHT
1103
18-Dec-2023
10:16
linh
pham



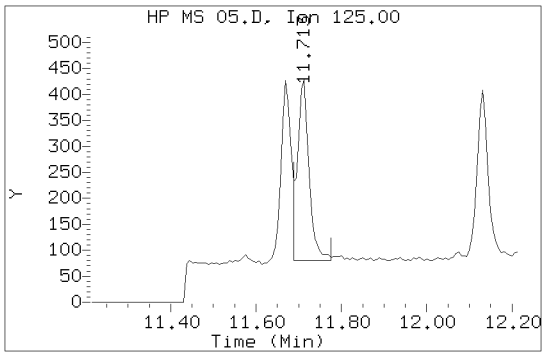
AFTER
MASS
253
AREA
2145
HEIGHT
1103
18-Dec-2023
10:16
linh
pham



BEFORE
MASS
125
AREA
691
HEIGHT
348
18-Dec-2023
10:16
linh
pham



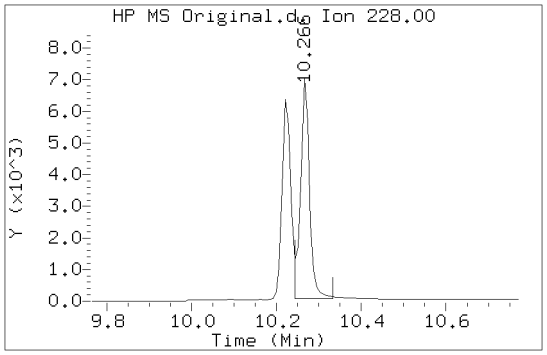
AFTER
MASS
125
AREA
691
HEIGHT
348
18-Dec-2023
10:16
linh
pham



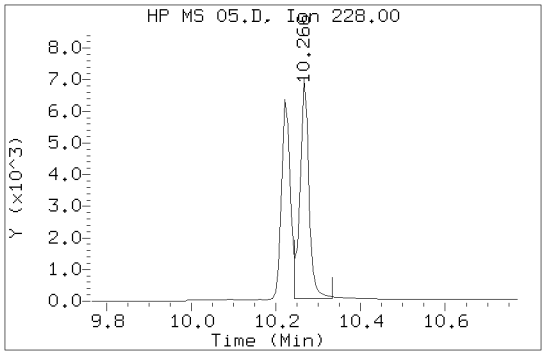
Chrysene (218-01-9)

Reason Code:

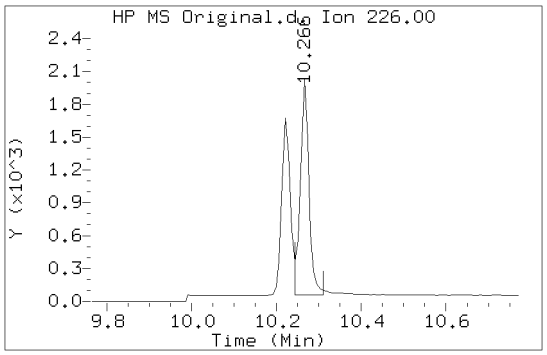
BEFORE
MASS
228
AREA
10622
HEIGHT
6953
18-Dec-2023
10:16
linh
pham



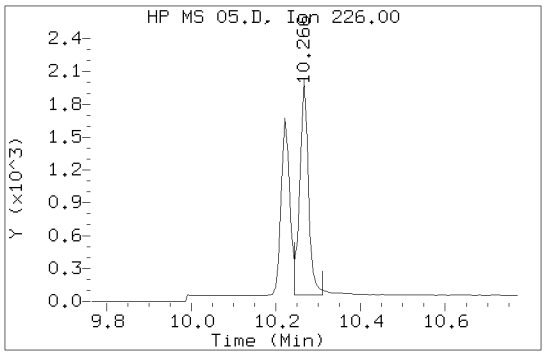
AFTER
MASS
228
AREA
10622
HEIGHT
6953
18-Dec-2023
10:16
linh
pham



BEFORE
MASS
226
AREA
2863
HEIGHT
1964
18-Dec-2023
10:16
linh
pham



AFTER
MASS
226
AREA
2863
HEIGHT
1964
18-Dec-2023
10:16
linh
pham



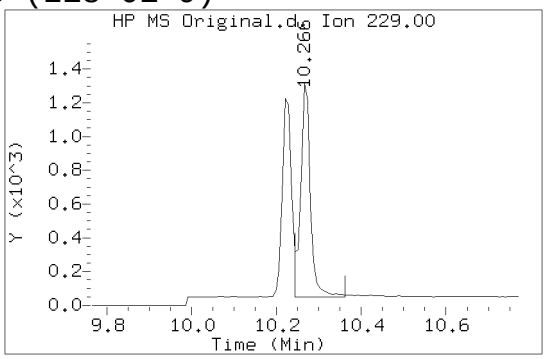
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Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

Chrysene (218-01-9)

Reason Code:

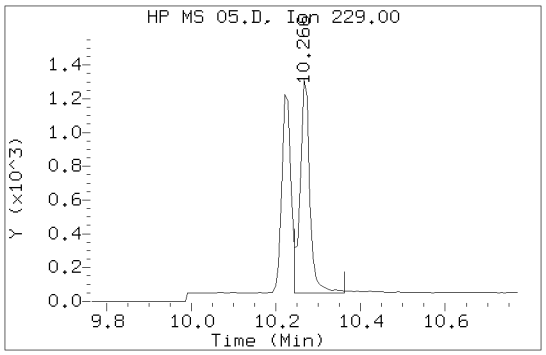
BEFORE

MASS
229
AREA
2102
HEIGHT
1262
18-Dec-2023
10:16
linh
pham



AFTER

MASS
229
AREA
2102
HEIGHT
1262
18-Dec-2023
10:16
linh
pham

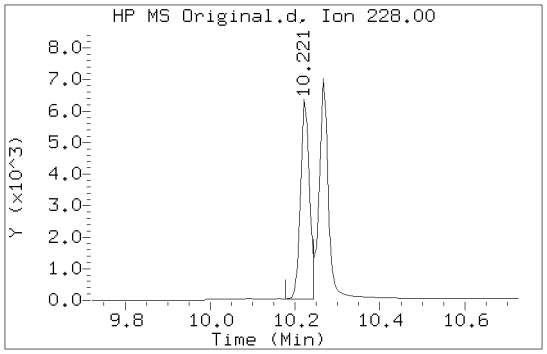


Benzo(a)Anthracene (56-55-3)

Reason Code:

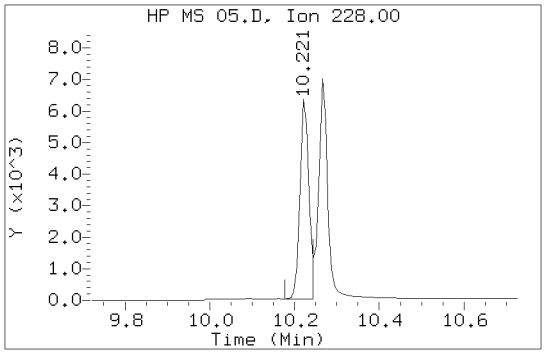
BEFORE

MASS
228
AREA
9234
HEIGHT
6338
18-Dec-2023
10:16
linh
pham



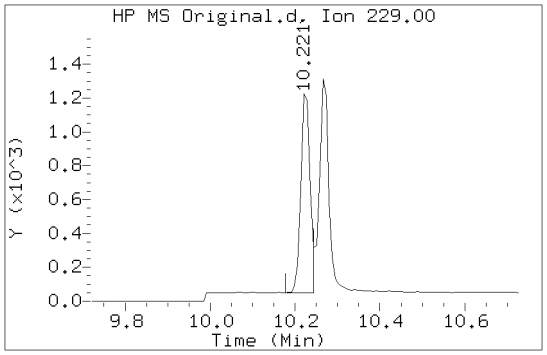
AFTER

MASS
228
AREA
9234
HEIGHT
6338
18-Dec-2023
10:16
linh
pham



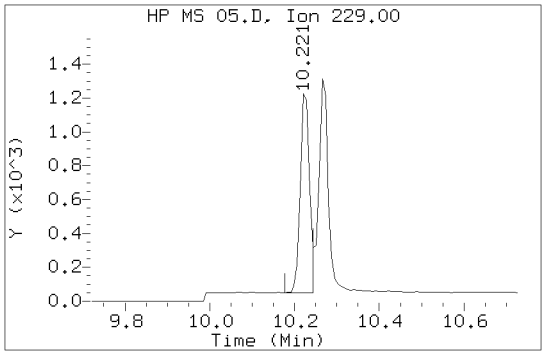
BEFORE

MASS
229
AREA
1784
HEIGHT
1176
18-Dec-2023
10:16
linh
pham



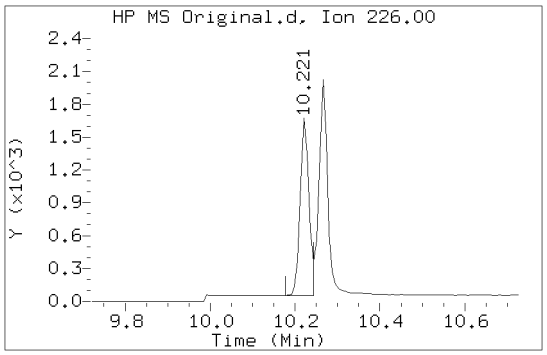
AFTER

MASS
229
AREA
1784
HEIGHT
1176
18-Dec-2023
10:16
linh
pham



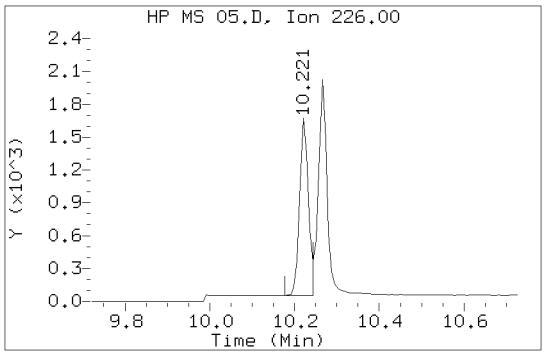
BEFORE

MASS
226
AREA
2346
HEIGHT
1623
18-Dec-2023
10:16
linh
pham



AFTER

MASS
226
AREA
2346
HEIGHT
1623
18-Dec-2023
10:16
linh
pham



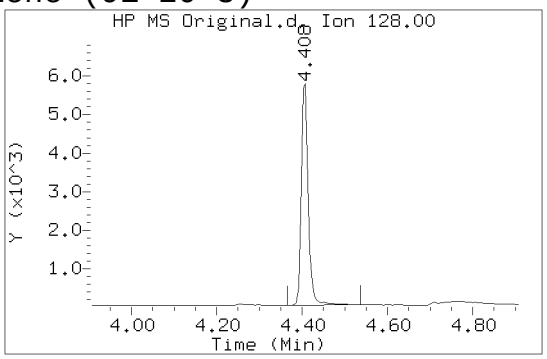
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Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

Naphthalene (91-20-3)

Reason Code:

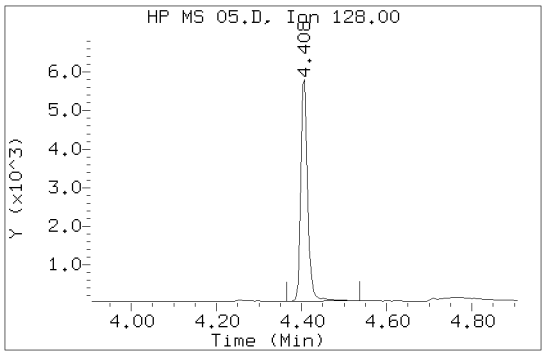
BEFORE

MASS
128
AREA
6558
HEIGHT
5742
18-Dec-2023
10:16
linh
pham



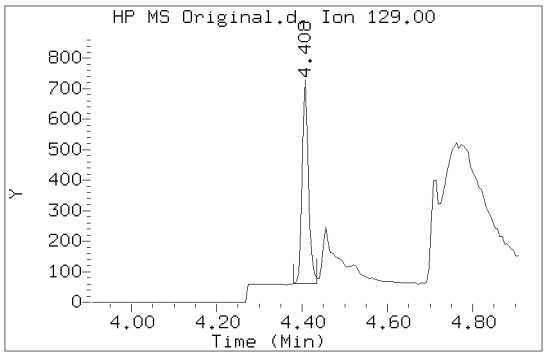
AFTER

MASS
128
AREA
6558
HEIGHT
5742
18-Dec-2023
10:16
linh
pham



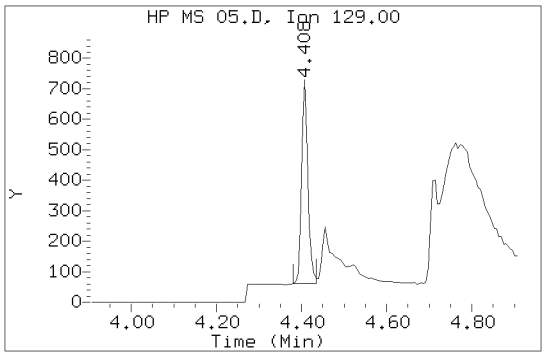
BEFORE

MASS
129
AREA
698
HEIGHT
668
18-Dec-2023
10:16
linh
pham



AFTER

MASS
129
AREA
698
HEIGHT
668
18-Dec-2023
10:16
linh
pham

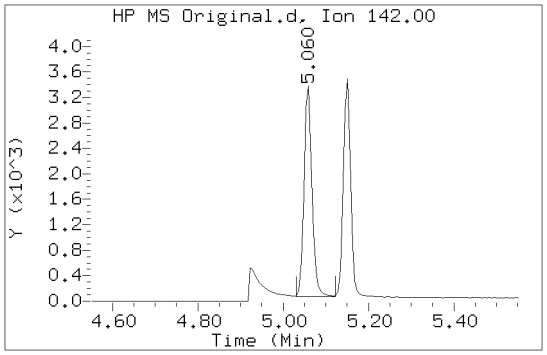


2-Methylnaphthalene (91-57-6)

Reason Code:

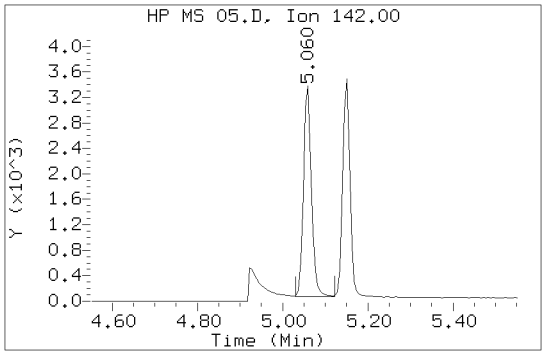
BEFORE

MASS
142
AREA
4276
HEIGHT
3311
18-Dec-2023
10:16
linh
pham



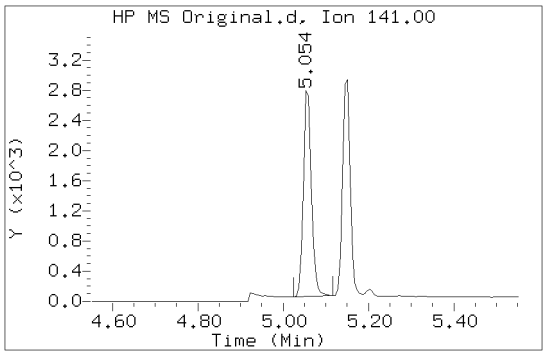
AFTER

MASS
142
AREA
4276
HEIGHT
3311
18-Dec-2023
10:16
linh
pham



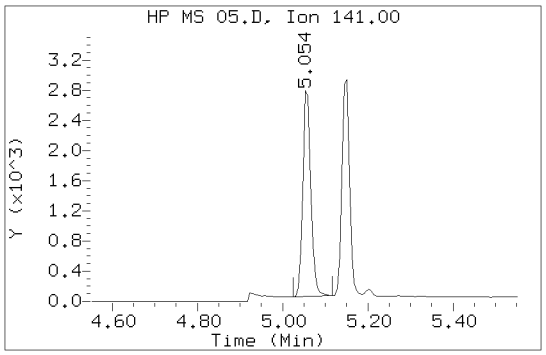
BEFORE

MASS
141
AREA
3595
HEIGHT
2730
18-Dec-2023
10:16
linh
pham



AFTER

MASS
141
AREA
3595
HEIGHT
2730
18-Dec-2023
10:16
linh
pham



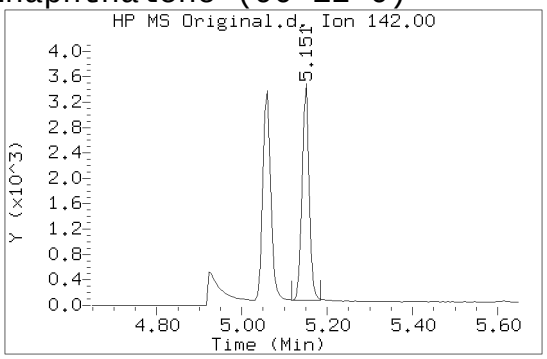
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\05.D
Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

1-Methylnaphthalene (90-12-0)

Reason Code:

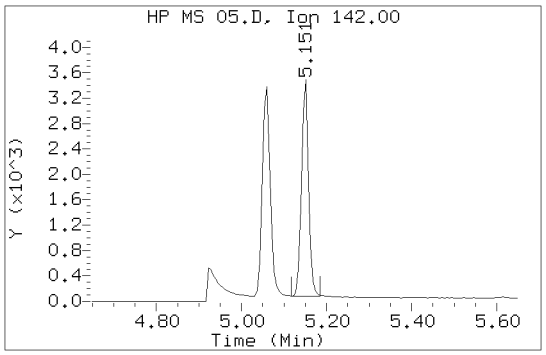
BEFORE

MASS
142
AREA
3948
HEIGHT
3408
18-Dec-2023
10:16
linh
pham



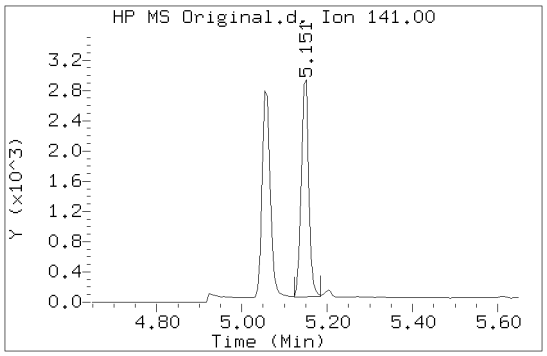
AFTER

MASS
142
AREA
3948
HEIGHT
3408
18-Dec-2023
10:16
linh
pham



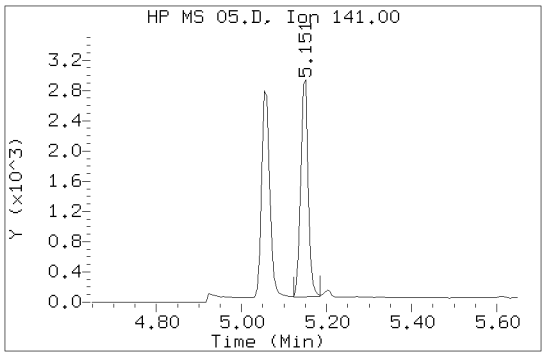
BEFORE

MASS
141
AREA
3545
HEIGHT
2870
18-Dec-2023
10:16
linh
pham



AFTER

MASS
141
AREA
3545
HEIGHT
2870
18-Dec-2023
10:16
linh
pham

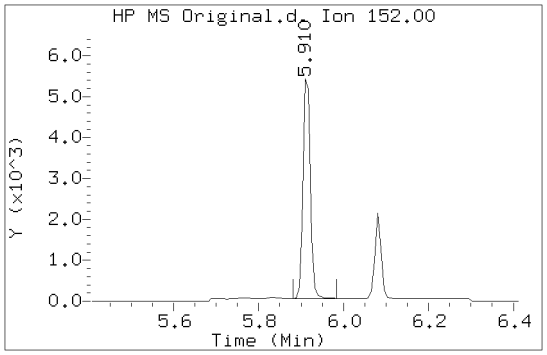


Acenaphthylene (208-96-8)

Reason Code:

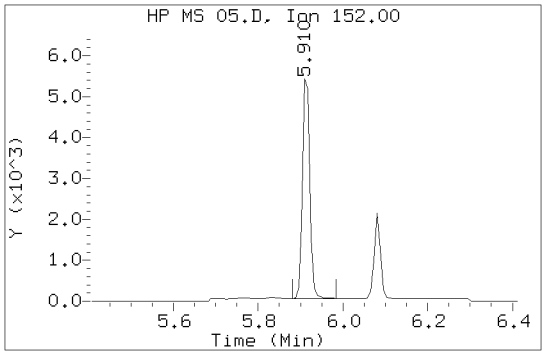
BEFORE

MASS
152
AREA
6461
HEIGHT
5373
18-Dec-2023
10:16
linh
pham



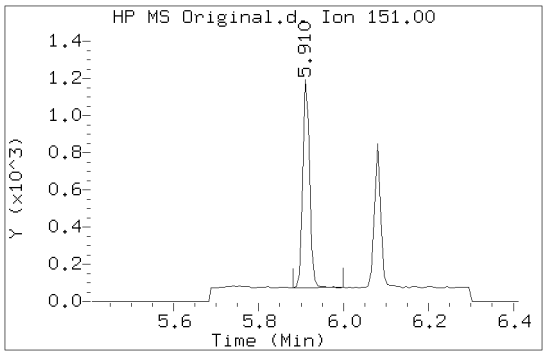
AFTER

MASS
152
AREA
6461
HEIGHT
5373
18-Dec-2023
10:16
linh
pham



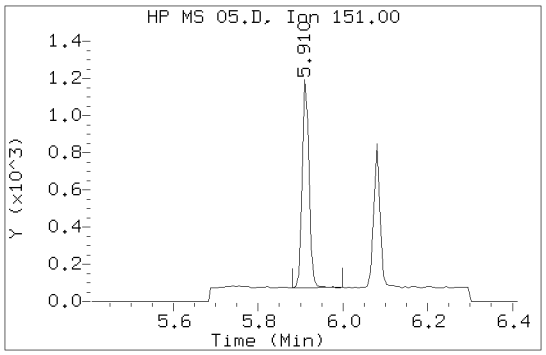
BEFORE

MASS
151
AREA
1246
HEIGHT
1118
18-Dec-2023
10:16
linh
pham



AFTER

MASS
151
AREA
1246
HEIGHT
1118
18-Dec-2023
10:16
linh
pham



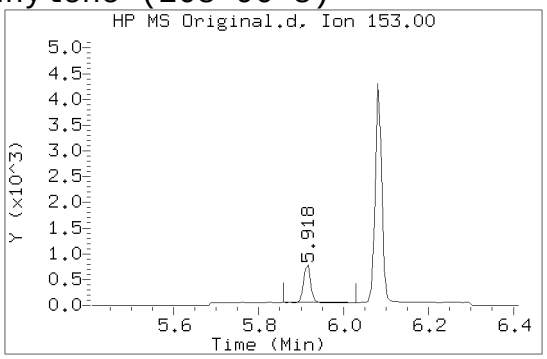
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\05.D
Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

Acenaphthylene (208-96-8)

Reason Code:

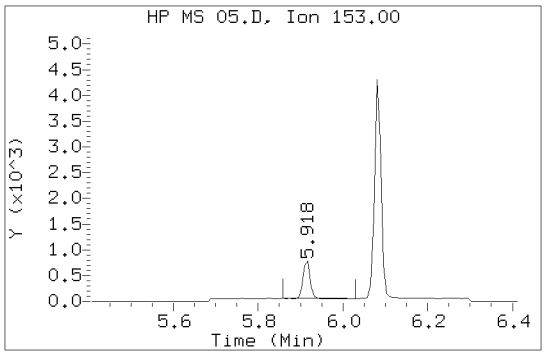
BEFORE

MASS
153
AREA
835
HEIGHT
723
18-Dec-2023
10:16
linh
pham



AFTER

MASS
153
AREA
835
HEIGHT
723
18-Dec-2023
10:16
linh
pham

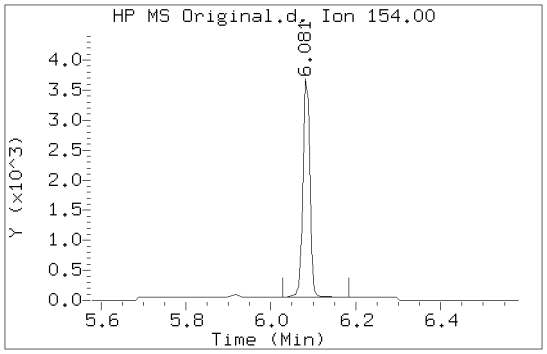


Acenaphthene (83-32-9)

Reason Code:

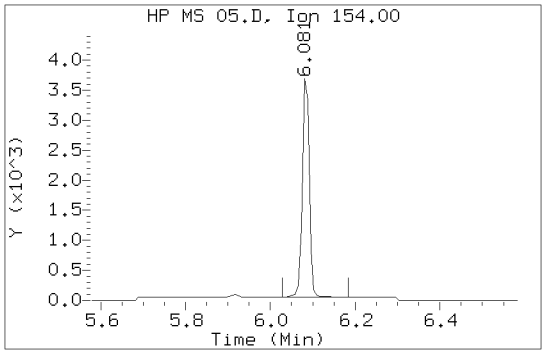
BEFORE

MASS
154
AREA
4156
HEIGHT
3636
18-Dec-2023
10:16
linh
pham



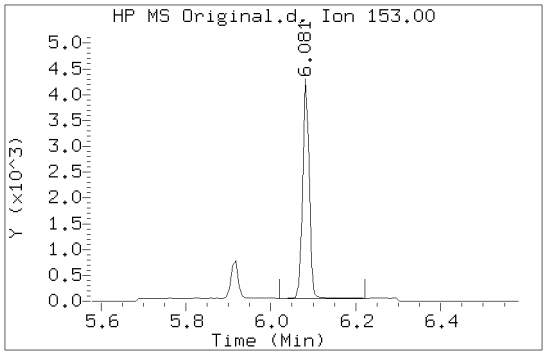
AFTER

MASS
154
AREA
4156
HEIGHT
3636
18-Dec-2023
10:16
linh
pham



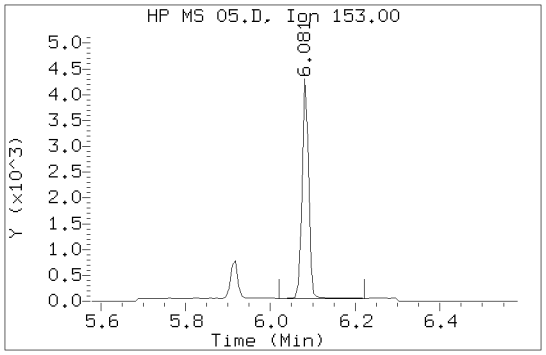
BEFORE

MASS
153
AREA
4479
HEIGHT
4250
18-Dec-2023
10:16
linh
pham



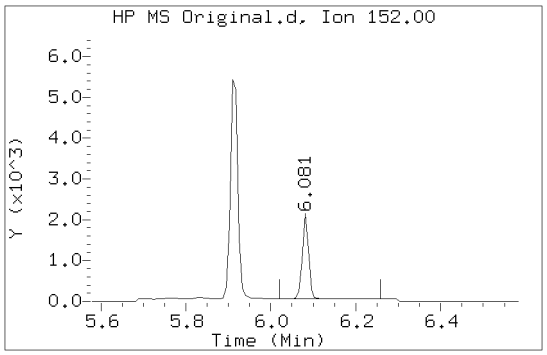
AFTER

MASS
153
AREA
4479
HEIGHT
4250
18-Dec-2023
10:16
linh
pham



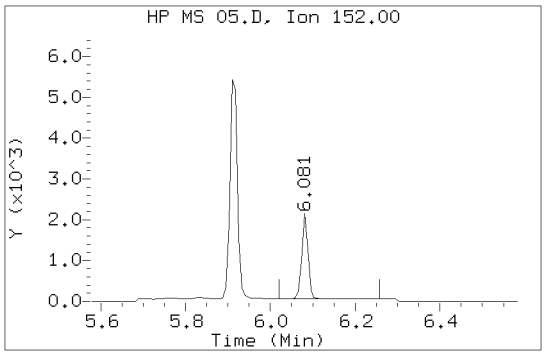
BEFORE

MASS
152
AREA
2082
HEIGHT
2088
18-Dec-2023
10:16
linh
pham



AFTER

MASS
152
AREA
2082
HEIGHT
2088
18-Dec-2023
10:16
linh
pham

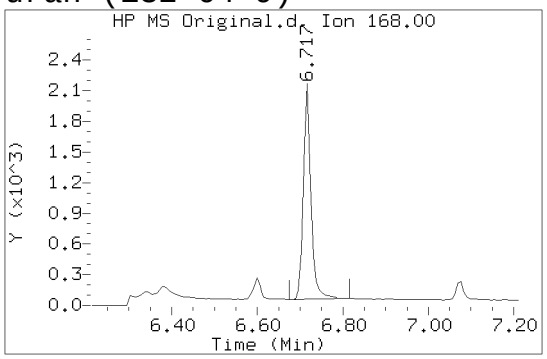


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Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

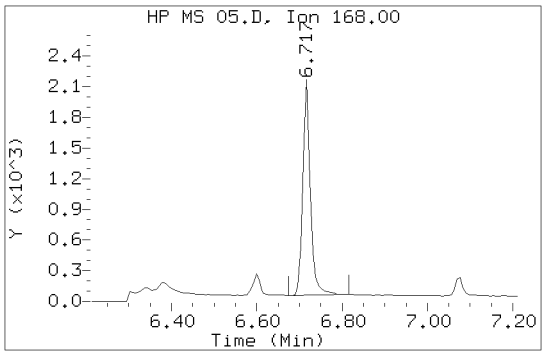
Dibenzofuran (132-64-9)

Reason Code:

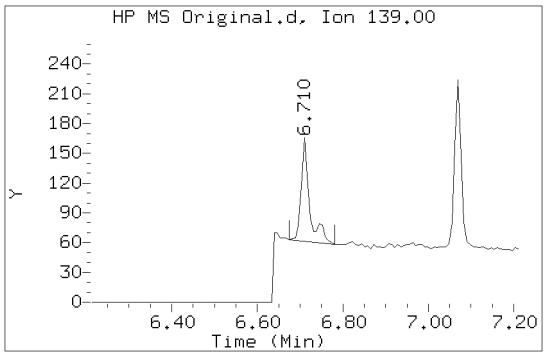
BEFORE
MASS
168
AREA
2602
HEIGHT
2107
18-Dec-2023
10:16
linh
pham



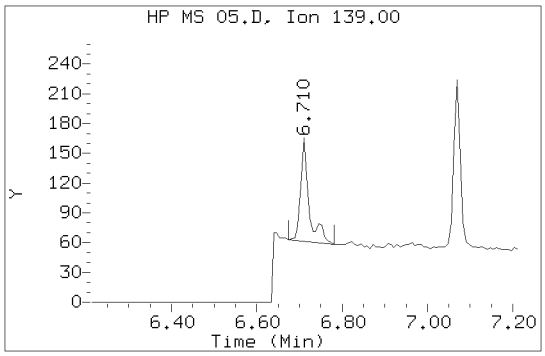
AFTER
MASS
168
AREA
2602
HEIGHT
2107
18-Dec-2023
10:16
linh
pham



BEFORE
MASS
139
AREA
144
HEIGHT
104
18-Dec-2023
10:16
linh
pham



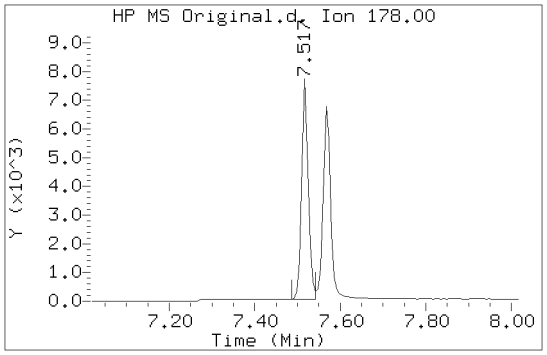
AFTER
MASS
139
AREA
144
HEIGHT
104
18-Dec-2023
10:16
linh
pham



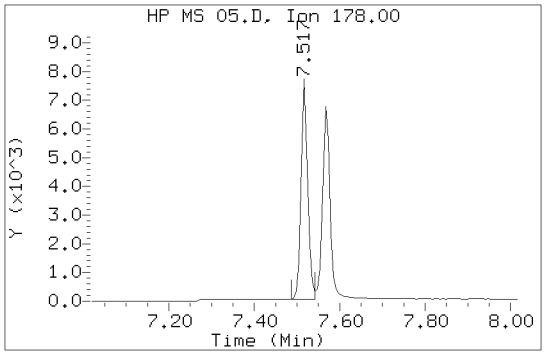
Phenanthrene (85-01-8)

Reason Code:

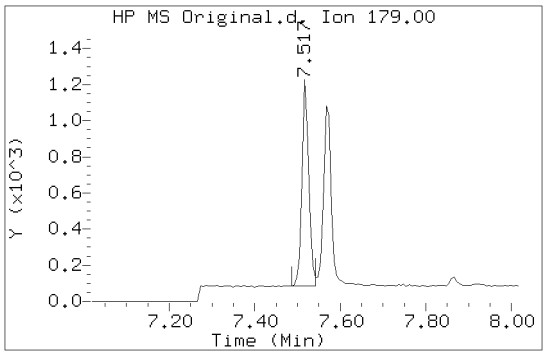
BEFORE
MASS
178
AREA
8192
HEIGHT
7668
18-Dec-2023
10:16
linh
pham



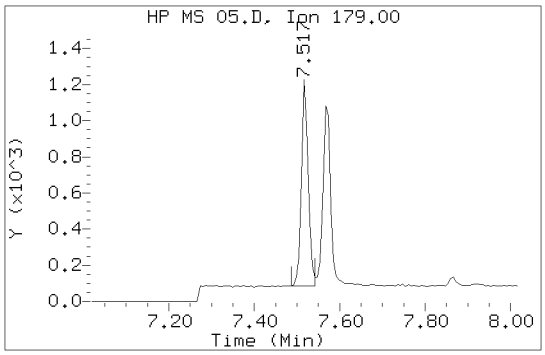
AFTER
MASS
178
AREA
8192
HEIGHT
7668
18-Dec-2023
10:16
linh
pham



BEFORE
MASS
179
AREA
1254
HEIGHT
1141
18-Dec-2023
10:16
linh
pham



AFTER
MASS
179
AREA
1254
HEIGHT
1141
18-Dec-2023
10:16
linh
pham



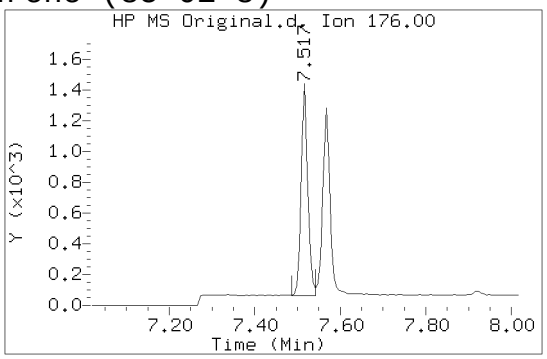
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\05.D
Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

Phenanthrene (85-01-8)

Reason Code:

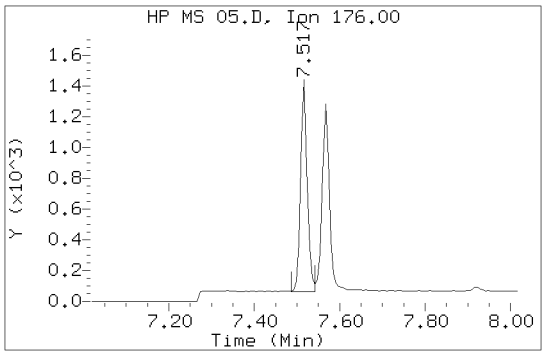
BEFORE

MASS
176
AREA
1487
HEIGHT
1376
18-Dec-2023
10:16
linh
pham



AFTER

MASS
176
AREA
1487
HEIGHT
1376
18-Dec-2023
10:16
linh
pham

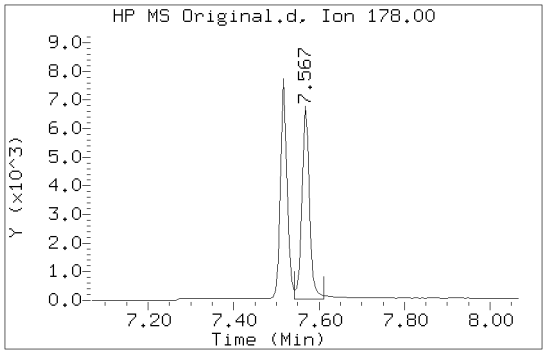


Anthracene (120-12-7)

Reason Code:

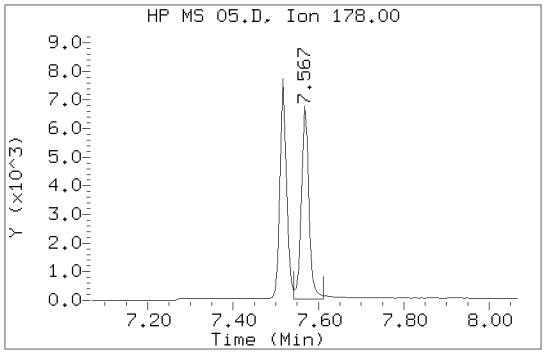
BEFORE

MASS
178
AREA
8121
HEIGHT
6745
18-Dec-2023
10:16
linh
pham



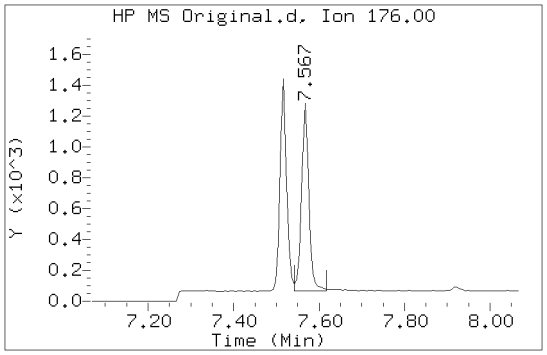
AFTER

MASS
178
AREA
8121
HEIGHT
6745
18-Dec-2023
10:16
linh
pham



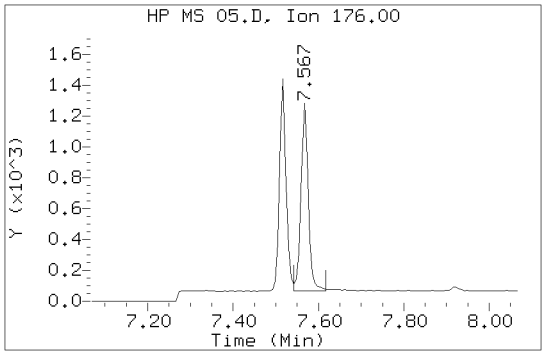
BEFORE

MASS
176
AREA
1417
HEIGHT
1217
18-Dec-2023
10:16
linh
pham



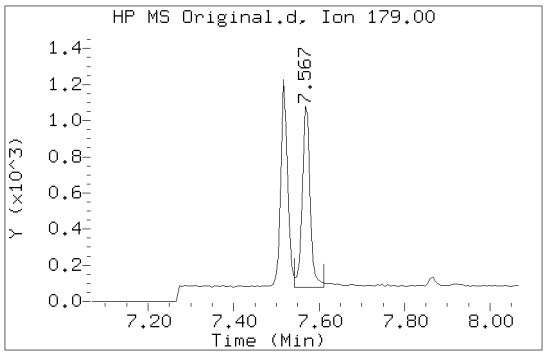
AFTER

MASS
176
AREA
1417
HEIGHT
1217
18-Dec-2023
10:16
linh
pham



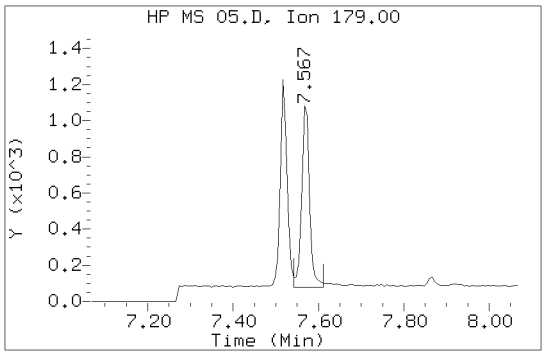
BEFORE

MASS
179
AREA
1273
HEIGHT
1003
18-Dec-2023
10:16
linh
pham



AFTER

MASS
179
AREA
1273
HEIGHT
1003
18-Dec-2023
10:16
linh
pham

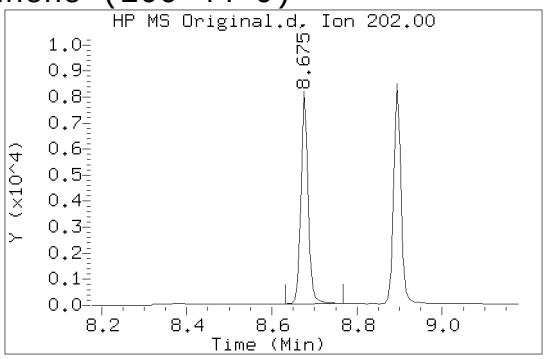


Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\05.D
Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

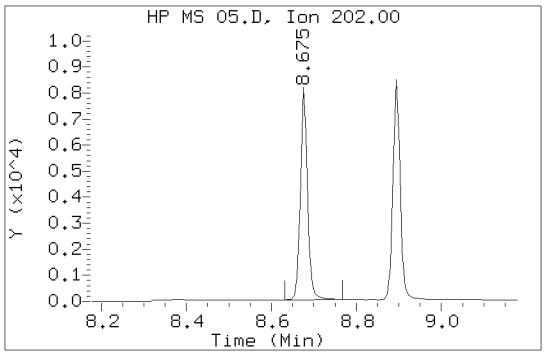
Fluoranthene (206-44-0)

Reason Code:

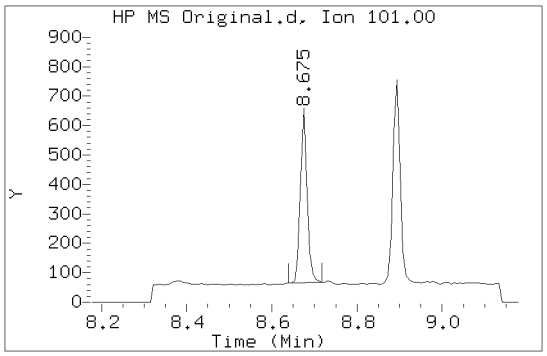
BEFORE
MASS
202
AREA
9509
HEIGHT
8151
18-Dec-2023
10:16
linh
pham



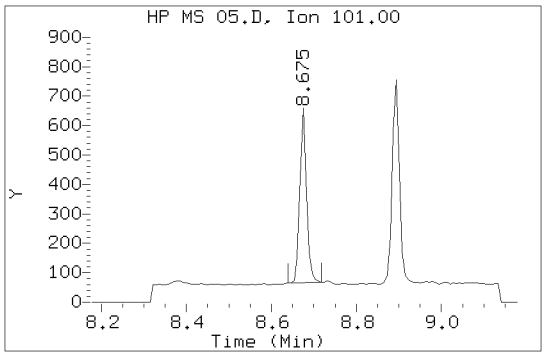
AFTER
MASS
202
AREA
9509
HEIGHT
8151
18-Dec-2023
10:16
linh
pham



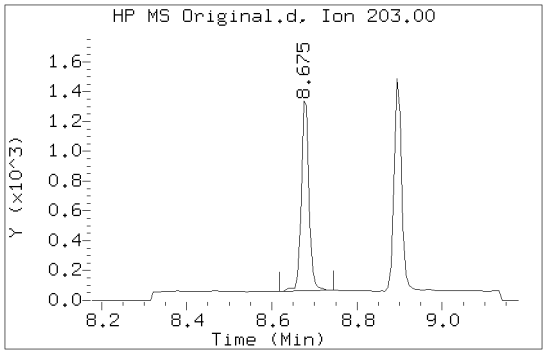
BEFORE
MASS
101
AREA
657
HEIGHT
593
18-Dec-2023
10:16
linh
pham



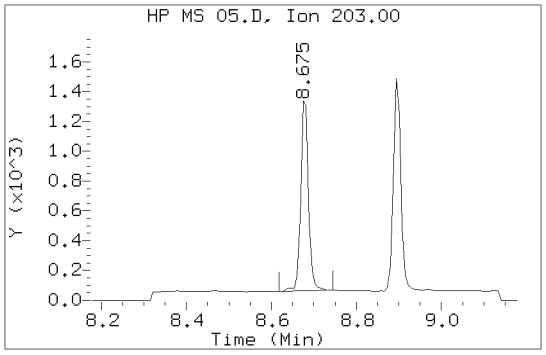
AFTER
MASS
101
AREA
657
HEIGHT
593
18-Dec-2023
10:16
linh
pham



BEFORE
MASS
203
AREA
1635
HEIGHT
1275
18-Dec-2023
10:16
linh
pham



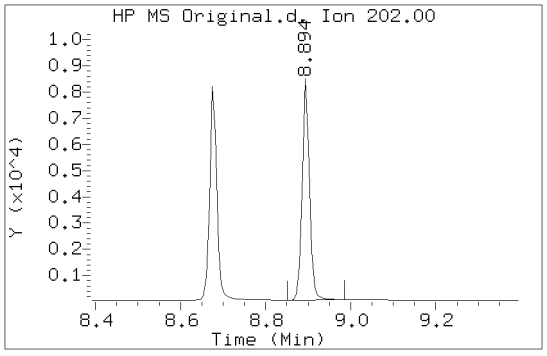
AFTER
MASS
203
AREA
1635
HEIGHT
1275
18-Dec-2023
10:16
linh
pham



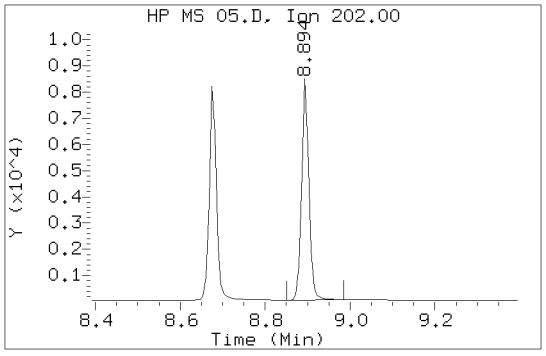
Pyrene (129-00-0)

Reason Code:

BEFORE
MASS
202
AREA
9943
HEIGHT
8445
18-Dec-2023
10:16
linh
pham



AFTER
MASS
202
AREA
9943
HEIGHT
8445
18-Dec-2023
10:16
linh
pham



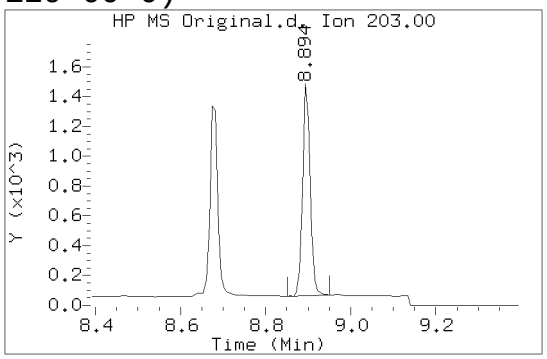
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\05.D
Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

Pyrene (129-00-0)

Reason Code:

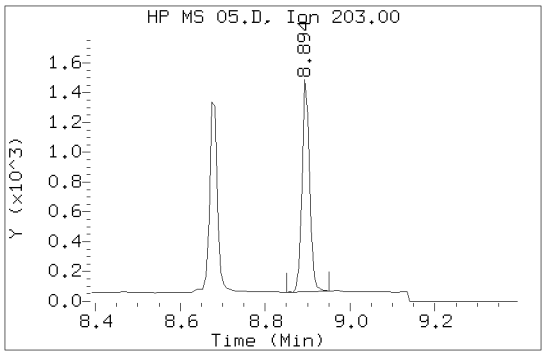
BEFORE

MASS
203
AREA
1740
HEIGHT
1422
18-Dec-2023
10:16
linh
pham



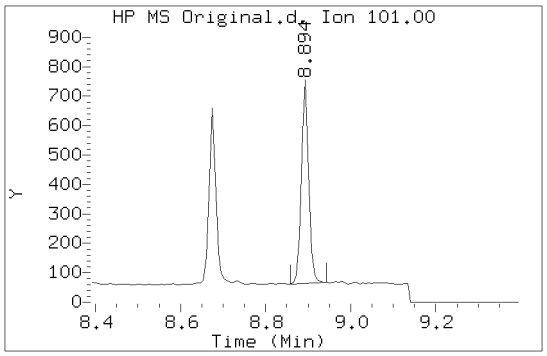
AFTER

MASS
203
AREA
1740
HEIGHT
1422
18-Dec-2023
10:16
linh
pham



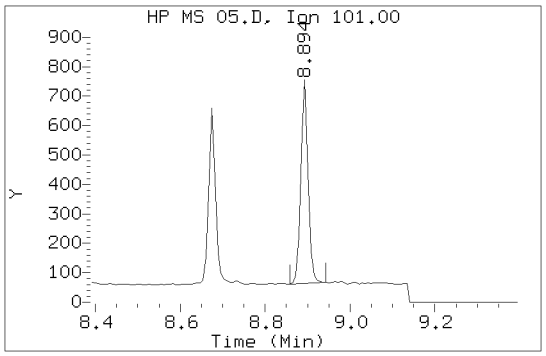
BEFORE

MASS
101
AREA
814
HEIGHT
690
18-Dec-2023
10:16
linh
pham



AFTER

MASS
101
AREA
814
HEIGHT
690
18-Dec-2023
10:16
linh
pham

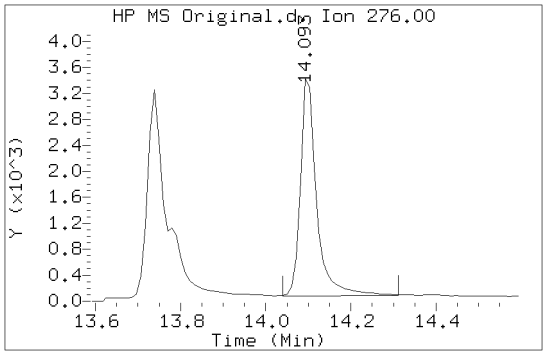


Benzo(g,h,i)perylene (191-24-2)

Reason Code:

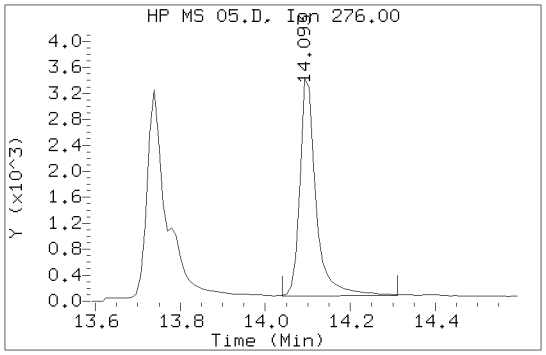
BEFORE

MASS
276
AREA
8760
HEIGHT
3340
18-Dec-2023
10:16
linh
pham



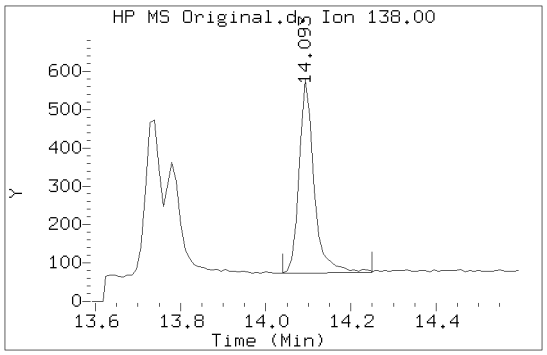
AFTER

MASS
276
AREA
8760
HEIGHT
3340
18-Dec-2023
10:16
linh
pham



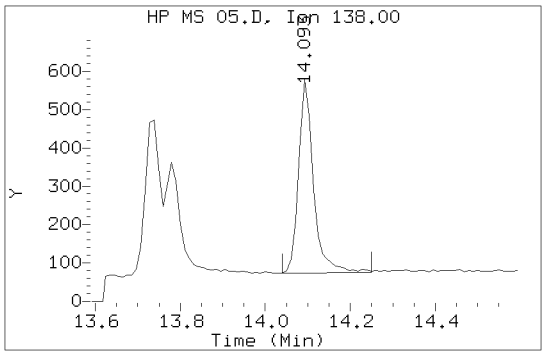
BEFORE

MASS
138
AREA
1218
HEIGHT
504
18-Dec-2023
10:16
linh
pham



AFTER

MASS
138
AREA
1218
HEIGHT
504
18-Dec-2023
10:16
linh
pham



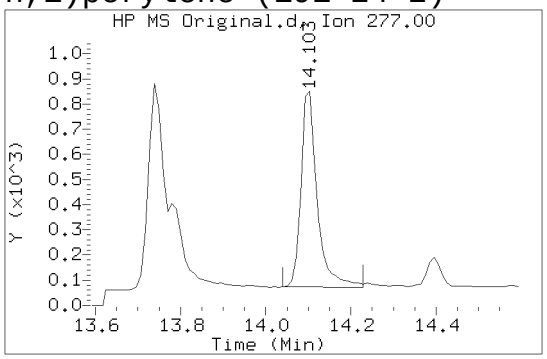
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Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

Benzo(g,h,i)perylene (191-24-2)

Reason Code:

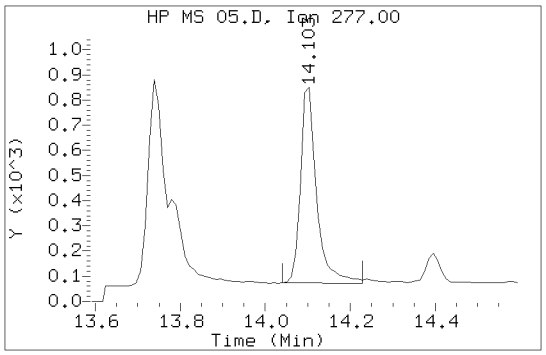
BEFORE

MASS
277
AREA
2041
HEIGHT
778
18-Dec-2023
10:16
linh
pham



AFTER

MASS
277
AREA
2041
HEIGHT
778
18-Dec-2023
10:16
linh
pham

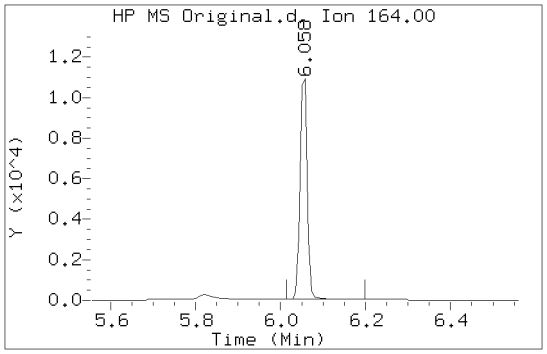


Acenaphthene-d10 (15067-26-2)

Reason Code:

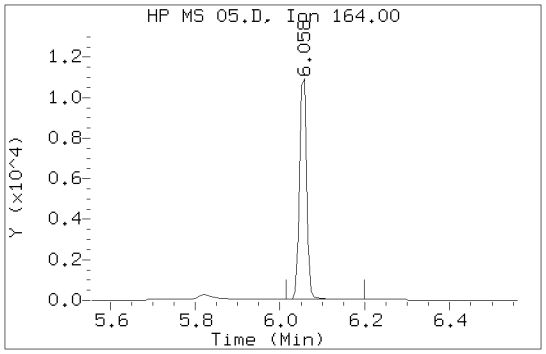
BEFORE

MASS
164
AREA
12667
HEIGHT
10873
18-Dec-2023
10:16
linh
pham



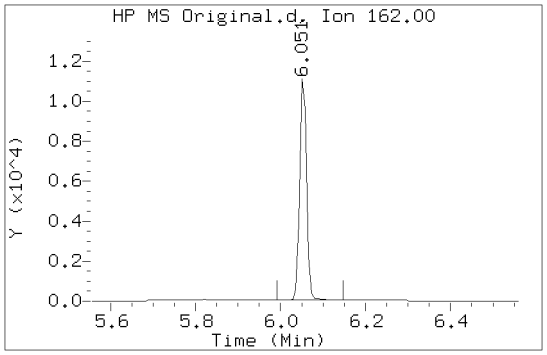
AFTER

MASS
164
AREA
12667
HEIGHT
10873
18-Dec-2023
10:16
linh
pham



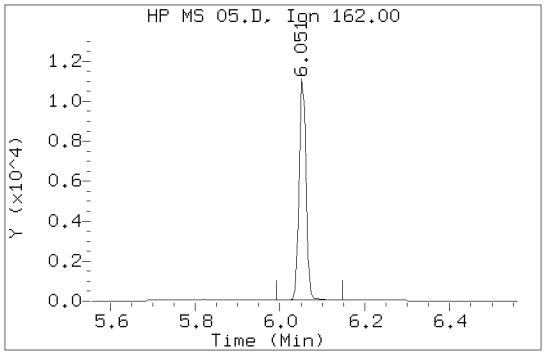
BEFORE

MASS
162
AREA
12338
HEIGHT
11056
18-Dec-2023
10:16
linh
pham



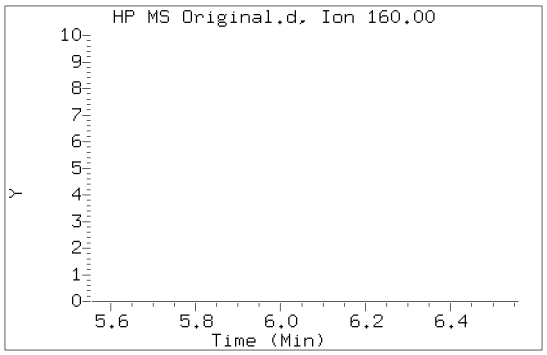
AFTER

MASS
162
AREA
12338
HEIGHT
11056
18-Dec-2023
10:16
linh
pham



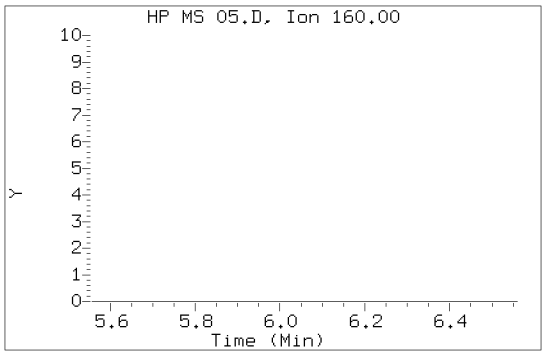
BEFORE

MASS
160
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
160
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



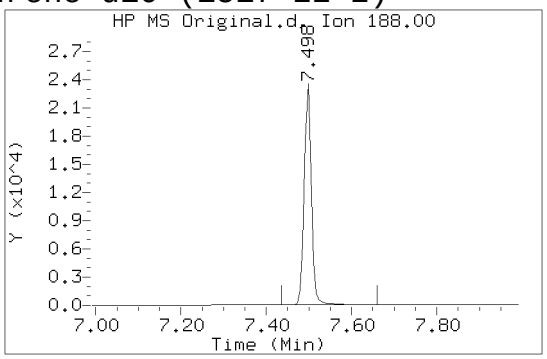
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Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

Phenanthrene-d10 (1517-22-2)

Reason Code:

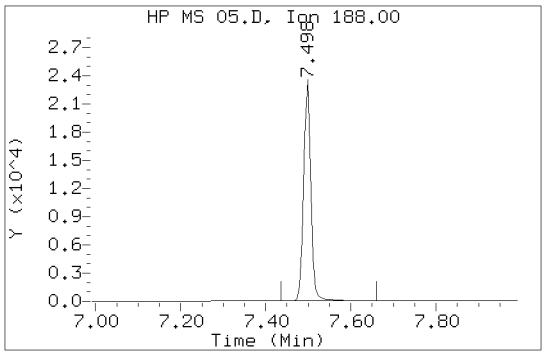
BEFORE

MASS
188
AREA
26652
HEIGHT
23524
18-Dec-2023
10:16
linh
pham



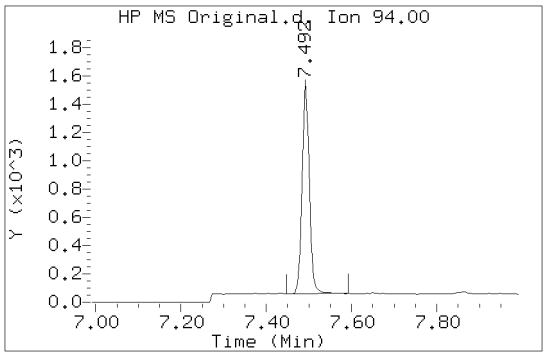
AFTER

MASS
188
AREA
26652
HEIGHT
23524
18-Dec-2023
10:16
linh
pham



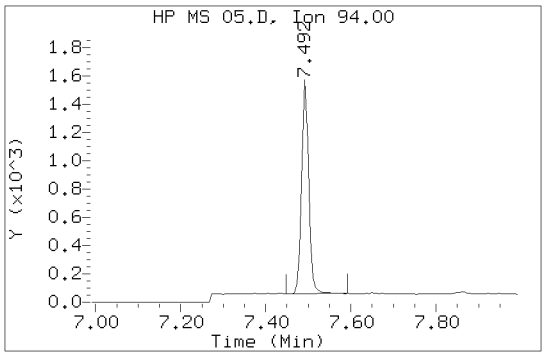
BEFORE

MASS
94
AREA
1693
HEIGHT
1511
18-Dec-2023
10:16
linh
pham



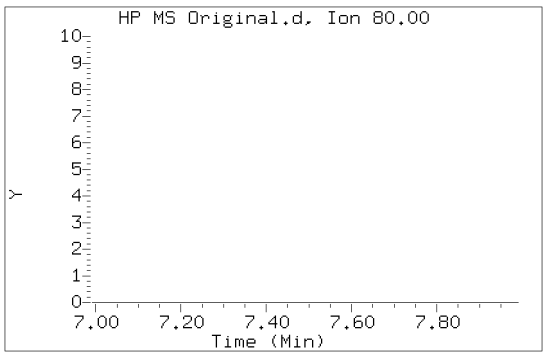
AFTER

MASS
94
AREA
1693
HEIGHT
1511
18-Dec-2023
10:16
linh
pham



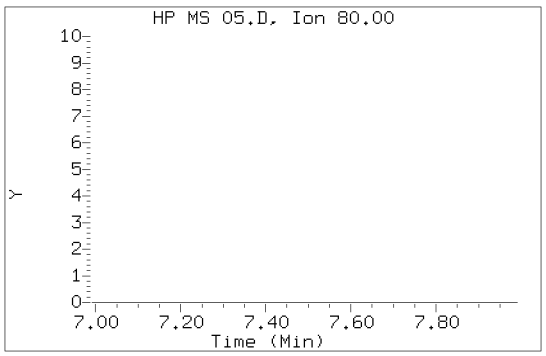
BEFORE

MASS
80
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
80
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham

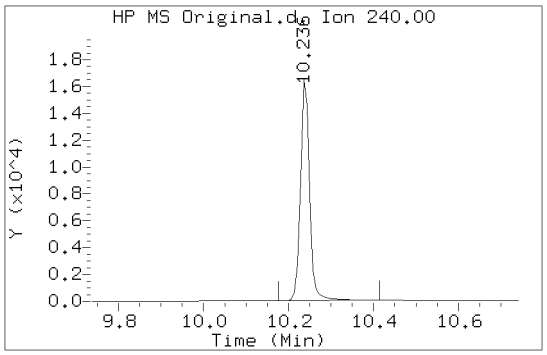


Chrysene-d12 (1719-03-5)

Reason Code:

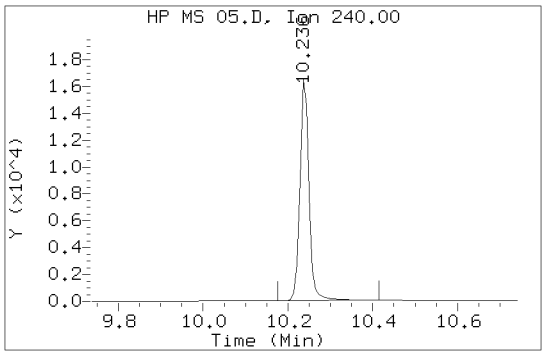
BEFORE

MASS
240
AREA
24444
HEIGHT
16452
18-Dec-2023
10:16
linh
pham



AFTER

MASS
240
AREA
24444
HEIGHT
16452
18-Dec-2023
10:16
linh
pham



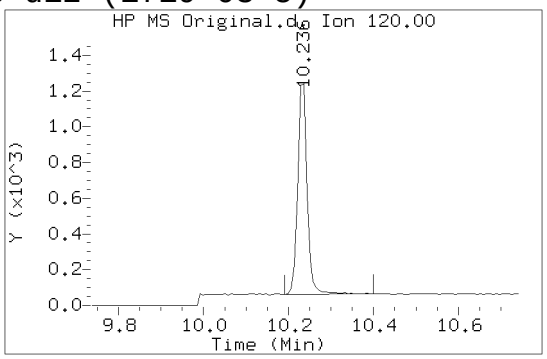
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\05.D
Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

Chrysene-d12 (1719-03-5)

Reason Code:

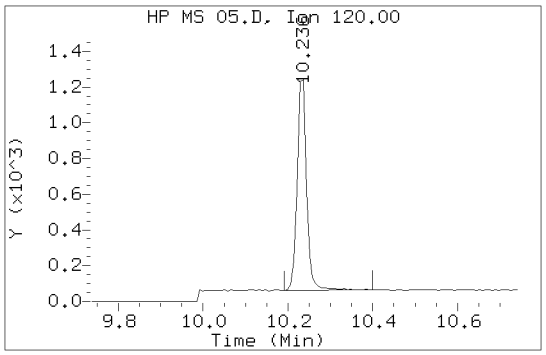
BEFORE

MASS
120
AREA
1808
HEIGHT
1179
18-Dec-2023
10:16
linh
pham



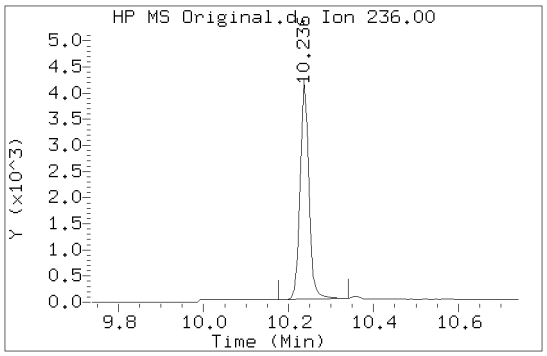
AFTER

MASS
120
AREA
1808
HEIGHT
1179
18-Dec-2023
10:16
linh
pham



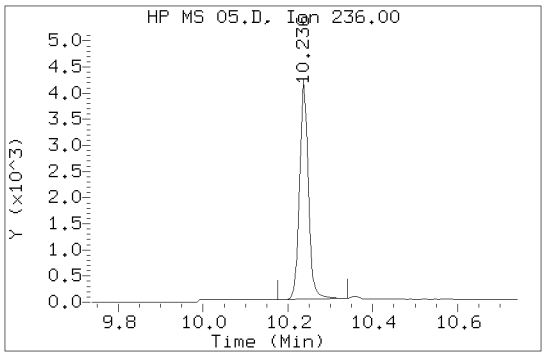
BEFORE

MASS
236
AREA
5922
HEIGHT
4190
18-Dec-2023
10:16
linh
pham



AFTER

MASS
236
AREA
5922
HEIGHT
4190
18-Dec-2023
10:16
linh
pham

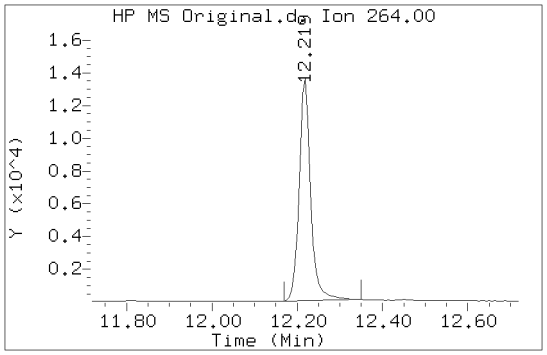


Perylene-d12 (1520-96-3)

Reason Code:

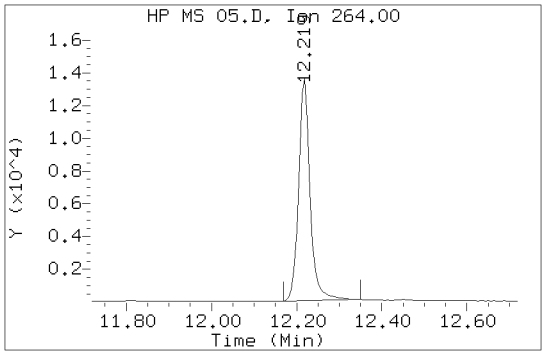
BEFORE

MASS
264
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25730
HEIGHT
13541
18-Dec-2023
10:16
linh
pham



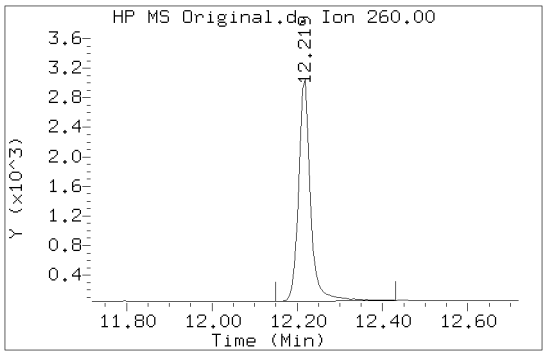
AFTER

MASS
264
AREA
25730
HEIGHT
13541
18-Dec-2023
10:16
linh
pham



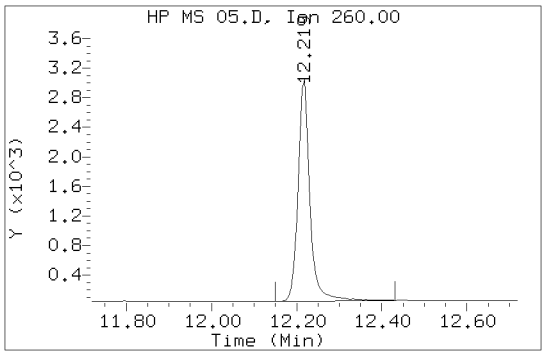
BEFORE

MASS
260
AREA
5834
HEIGHT
2991
18-Dec-2023
10:16
linh
pham



AFTER

MASS
260
AREA
5834
HEIGHT
2991
18-Dec-2023
10:16
linh
pham



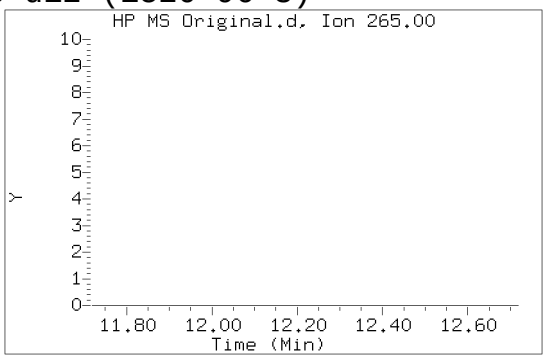
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Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

Perylene-d12 (1520-96-3)

Reason Code:

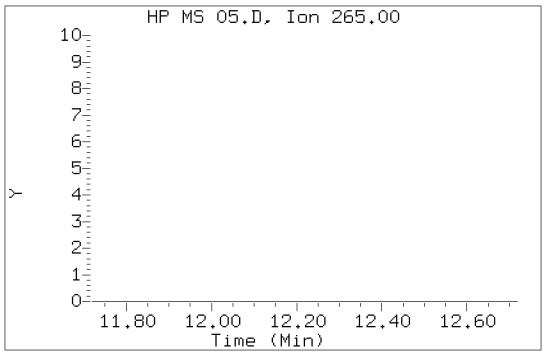
BEFORE

MASS
265
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
265
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham

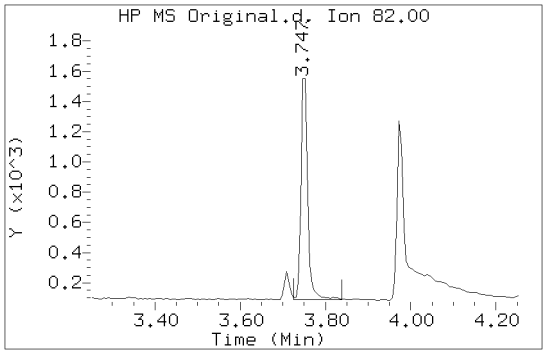


Nitrobenzene-d5 (4165-60-0)

Reason Code:

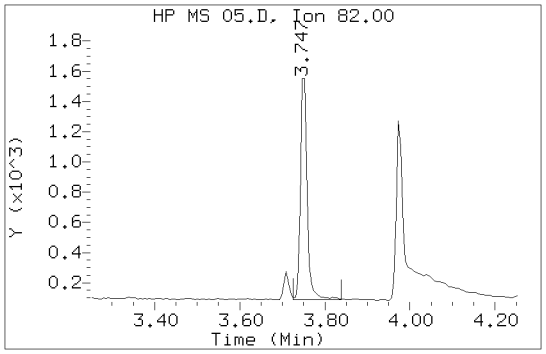
BEFORE

MASS
82
AREA
1606
HEIGHT
1464
18-Dec-2023
10:16
linh
pham



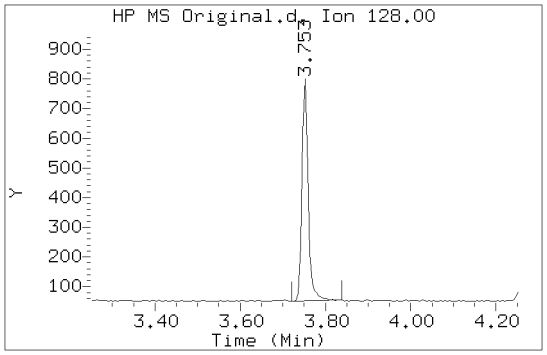
AFTER

MASS
82
AREA
1606
HEIGHT
1464
18-Dec-2023
10:16
linh
pham



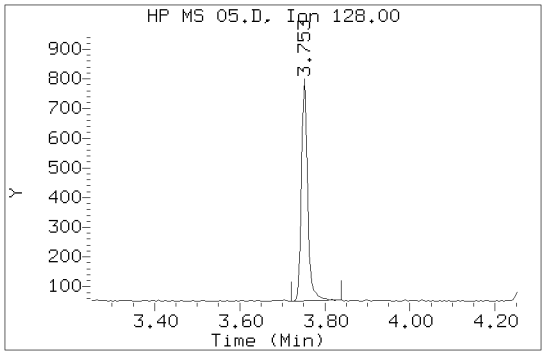
BEFORE

MASS
128
AREA
740
HEIGHT
747
18-Dec-2023
10:16
linh
pham



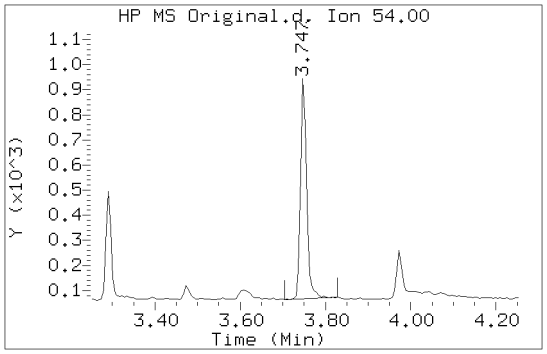
AFTER

MASS
128
AREA
740
HEIGHT
747
18-Dec-2023
10:16
linh
pham



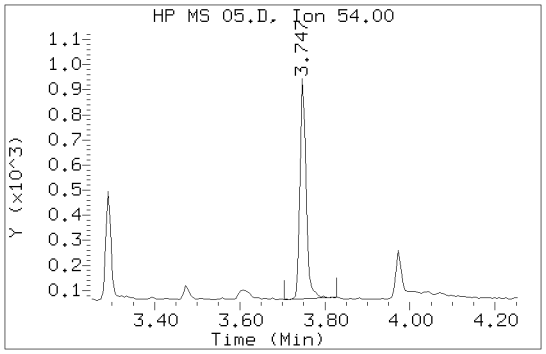
BEFORE

MASS
54
AREA
867
HEIGHT
877
18-Dec-2023
10:16
linh
pham



AFTER

MASS
54
AREA
867
HEIGHT
877
18-Dec-2023
10:16
linh
pham



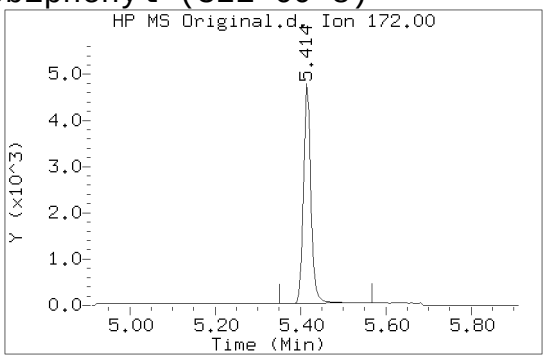
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\05.D
Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

2-Fluorobiphenyl (321-60-8)

Reason Code:

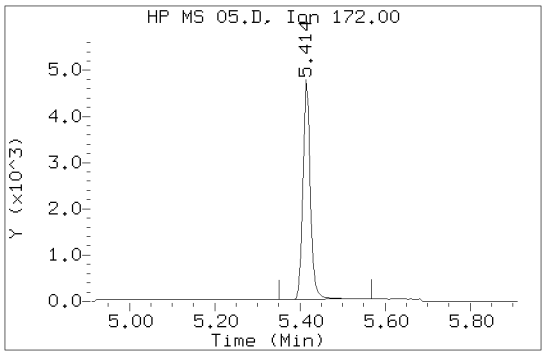
BEFORE

MASS
172
AREA
5723
HEIGHT
4747
18-Dec-2023
10:16
linh
pham



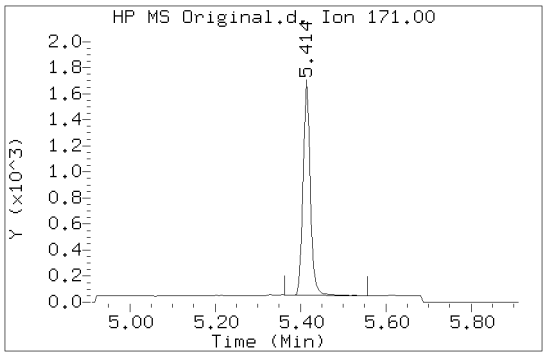
AFTER

MASS
172
AREA
5723
HEIGHT
4747
18-Dec-2023
10:16
linh
pham



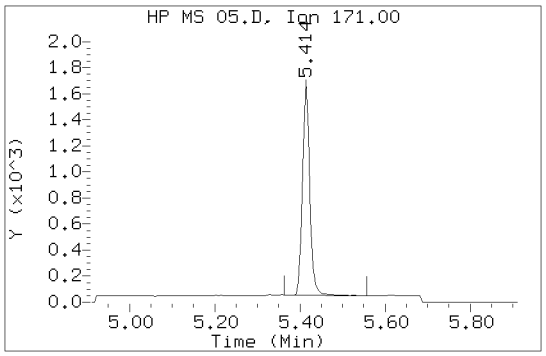
BEFORE

MASS
171
AREA
1935
HEIGHT
1654
18-Dec-2023
10:16
linh
pham



AFTER

MASS
171
AREA
1935
HEIGHT
1654
18-Dec-2023
10:16
linh
pham

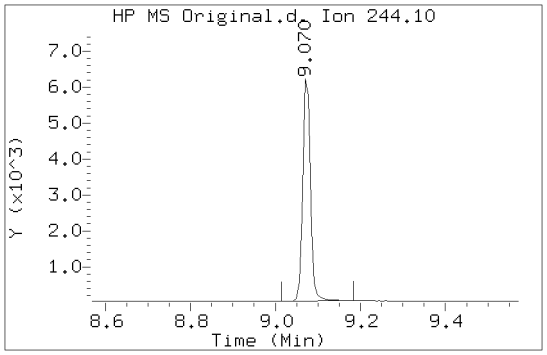


4-Terphenyl-d14 (1718-51-0)

Reason Code:

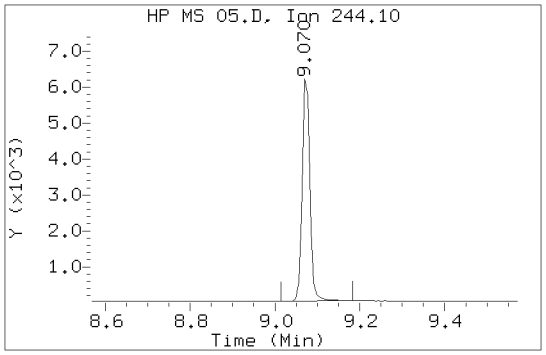
BEFORE

MASS
244.1
AREA
6999
HEIGHT
6174
18-Dec-2023
10:16
linh
pham



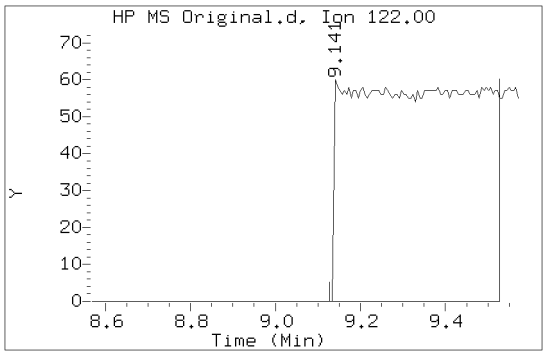
AFTER

MASS
244.1
AREA
6999
HEIGHT
6174
18-Dec-2023
10:16
linh
pham



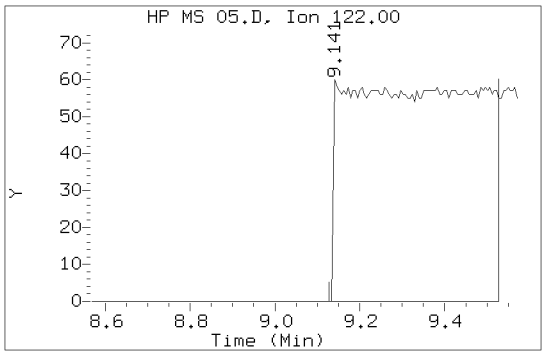
BEFORE

MASS
122
AREA
1342
HEIGHT
60
18-Dec-2023
10:16
linh
pham



AFTER

MASS
122
AREA
1342
HEIGHT
60
18-Dec-2023
10:16
linh
pham



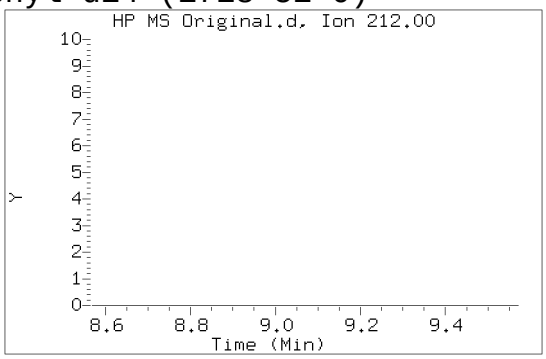
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Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

4-Terphenyl-d14 (1718-51-0)

Reason Code:

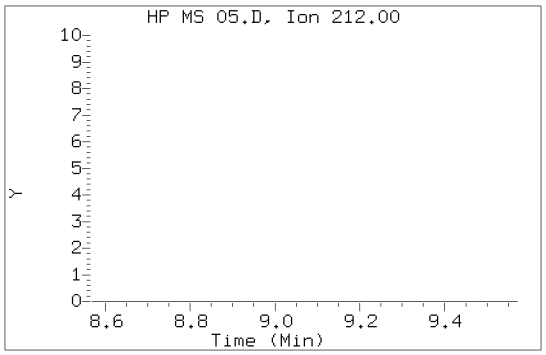
BEFORE

MASS
212
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
212
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\231212.b\06.D
Lab Smp Id: PAHSIM-0.050 Client Smp ID: PAHSIM-0.050
Inj Date : 12-DEC-2023 14:39
Operator : LG Inst ID: SV6.i
Smp Info : PAHSIM-0.050
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\231212.b\PAHSIM1.m
Meth Date : 18-Dec-2023 10:17 SV6.i Quant Type: ISTD
Cal Date : 12-DEC-2023 14:18 Cal File: 05.D
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: llpahdbf.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 45 Naphthalene-d8	136	4.391	4.391	(1.000)	18985	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.752	3.752	(0.854)	2458	0.05000	0.04695(M)
* 86 Acenaphthene-d10	164	6.058	6.058	(1.000)	11683	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	5.419	5.419	(0.895)	9114	0.05000	0.04899(M)
* 126 Phenanthrene-d10	188	7.499	7.499	(1.000)	24303	0.10000	(M)
* 182 Chrysene-d12	240	10.239	10.239	(1.000)	22699	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.071	9.071	(0.886)	10988	0.05000	0.04767(M)
* 198 Perylene-d12	264	12.222	12.222	(1.000)	23087	0.10000	(M)
46 Naphthalene	128	4.407	4.407	(1.004)	10183	0.05000	0.04889(M)
61 2-Methylnaphthalene	142	5.059	5.059	(1.152)	6820	0.05000	0.04896(M)
62 1-Methylnaphthalene	142	5.150	5.150	(1.173)	6389	0.05000	0.04916(M)
83 Acenaphthylene	152	5.917	5.917	(0.977)	10270	0.05000	0.04808(M)
88 Acenaphthene	154	6.087	6.087	(1.005)	6572	0.05000	0.04879(M)
98 Fluorene	166	6.589	6.589	(1.088)	8058	0.05000	0.04866
92 Dibenzofuran	168	6.718	6.718	(1.109)	4160	0.05000	0.04764(M)
128 Phenanthrene	178	7.518	7.518	(1.002)	12779	0.05000	0.04804
130 Anthracene	178	7.568	7.568	(1.009)	12948	0.05000	0.04884(M)
149 Fluoranthene	202	8.676	8.676	(1.157)	15163	0.05000	0.04792(M)
155 Pyrene	202	8.895	8.895	(0.869)	15971	0.05000	0.04839(M)

181 Benzo(a)Anthracene	228	10.224	10.224 (0.999)	14223	0.05000	0.04621
183 Chrysene	228	10.269	10.269 (1.003)	17029	0.05000	0.04964(M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
192 Benzo(b)fluoranthene	252	11.672	11.672	(0.955)	14264	0.05000	0.04977(M)
195 Benzo(k)fluoranthene	252	11.716	11.716	(0.959)	17371	0.05000	0.05009(M)
197 Benzo(a)pyrene	252	12.134	12.134	(0.993)	13740	0.05000	0.04947(M)
209 Indeno(1,2,3-cd)pyrene	276	13.735	13.735	(1.124)	16176	0.05000	0.04867(M)
210 Dibenzo(a,h)anthracene	278	13.787	13.787	(1.128)	13560	0.05000	0.04912(QM)
212 Benzo(g,h,i)perylene	276	14.100	14.100	(1.154)	14984	0.05000	0.05048(M)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\231212.b\06.D

Date : 12-DEC-2023 14:39

Client ID: PAHSIM-0.050

Instrument: SV6.i

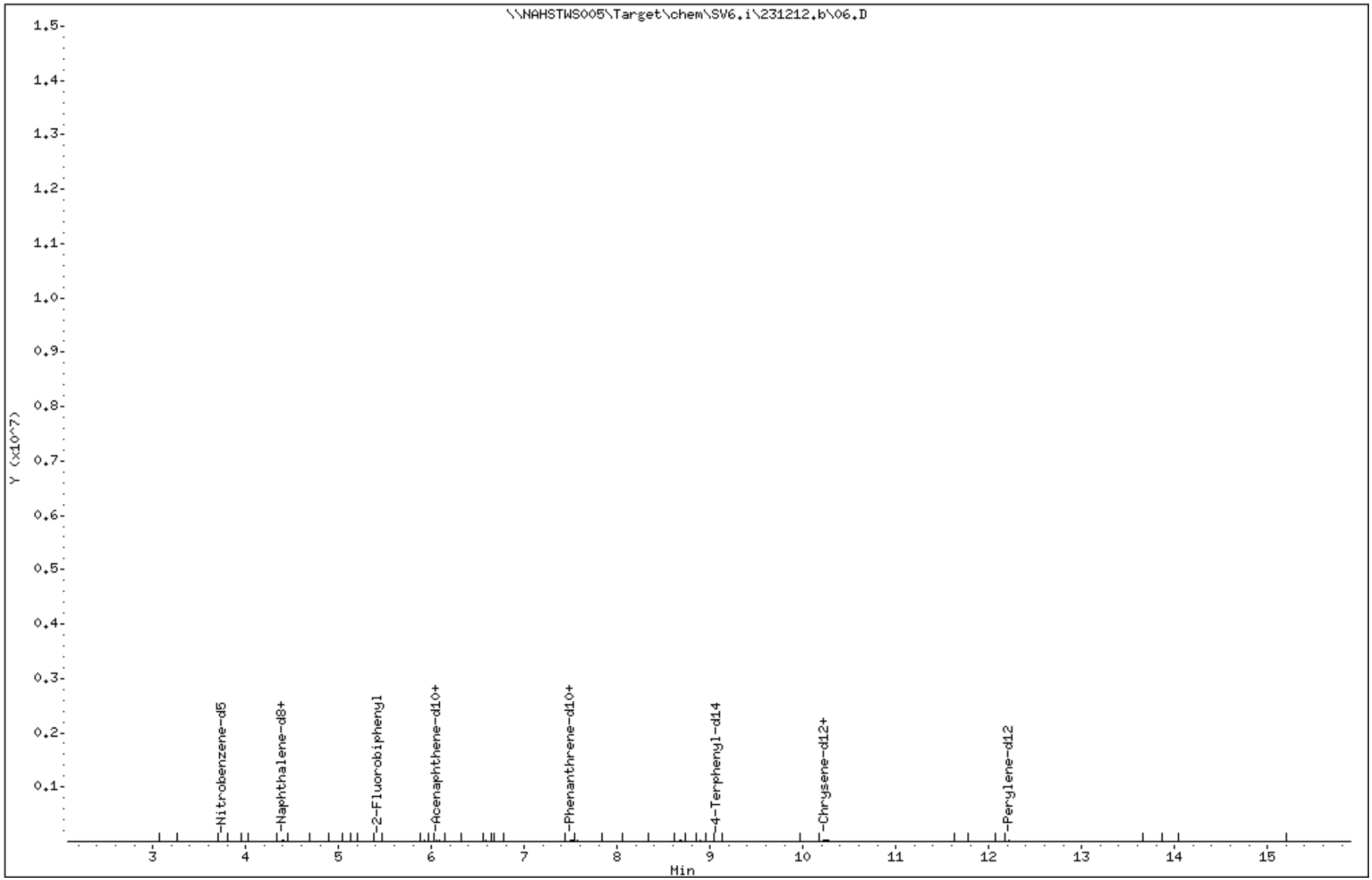
Sample Info: PAHSIM-0.050

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



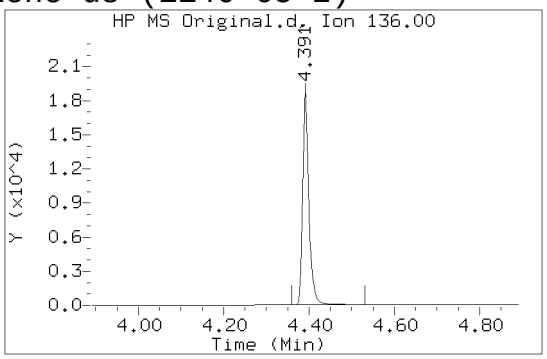
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\06.D
Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

Naphthalene-d8 (1146-65-2)

Reason Code:

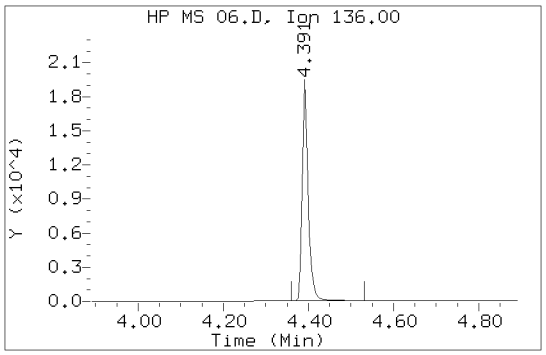
BEFORE

MASS
136
AREA
18985
HEIGHT
19440
18-Dec-2023
10:16
linh
pham



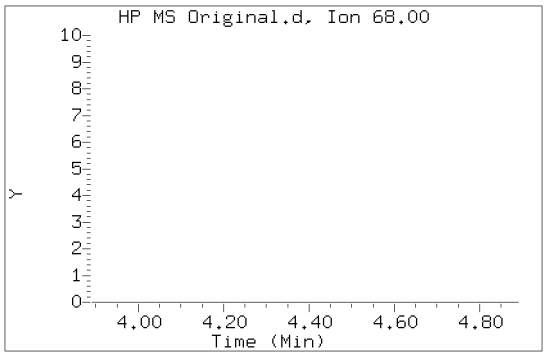
AFTER

MASS
136
AREA
18985
HEIGHT
19440
18-Dec-2023
10:16
linh
pham



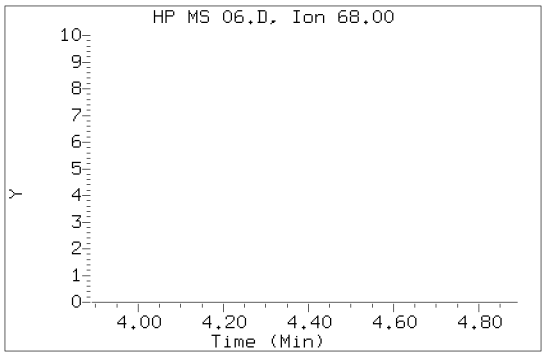
BEFORE

MASS
68
AREA
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HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
68
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham

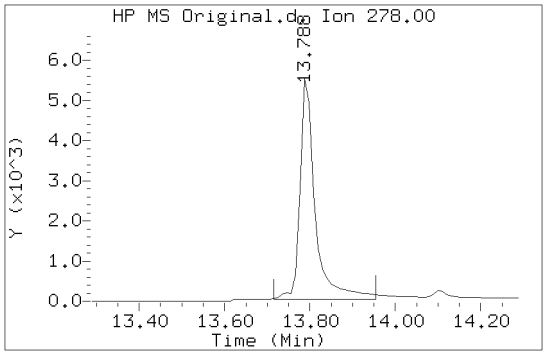


Dibenzo(a,h)anthracene (53-70-3)

Reason Code:

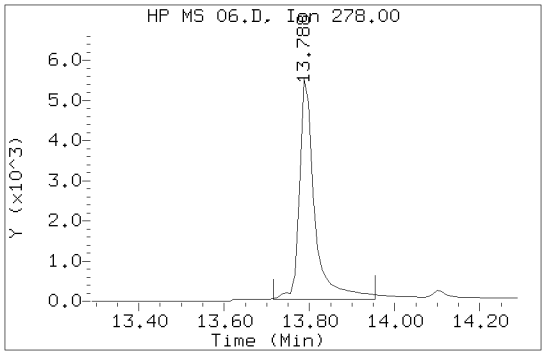
BEFORE

MASS
278
AREA
13560
HEIGHT
5487
18-Dec-2023
10:16
linh
pham



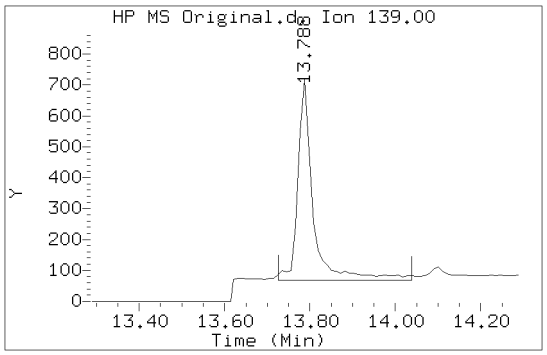
AFTER

MASS
278
AREA
13560
HEIGHT
5487
18-Dec-2023
10:16
linh
pham



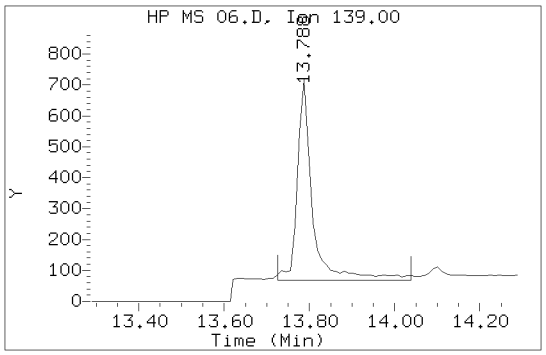
BEFORE

MASS
139
AREA
1603
HEIGHT
648
18-Dec-2023
10:16
linh
pham



AFTER

MASS
139
AREA
1603
HEIGHT
648
18-Dec-2023
10:16
linh
pham



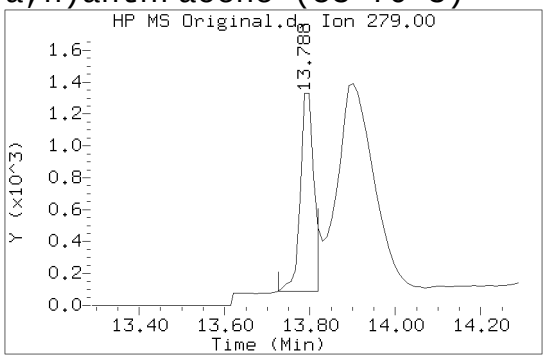
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\06.D
Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

Dibenzo(a,h)anthracene (53-70-3)

Reason Code:

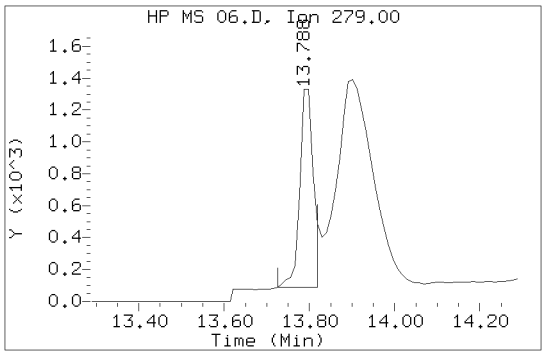
BEFORE

MASS
279
AREA
2776
HEIGHT
1242
18-Dec-2023
10:16
linh
pham



AFTER

MASS
279
AREA
2776
HEIGHT
1242
18-Dec-2023
10:16
linh
pham

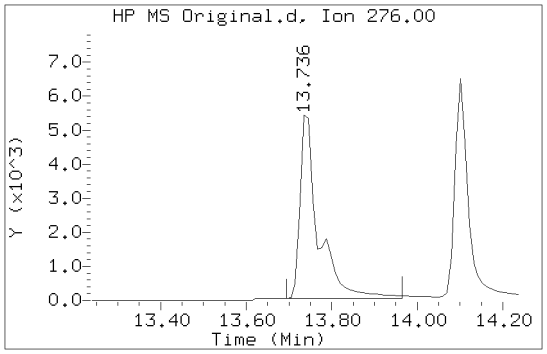


Indeno(1,2,3-cd)pyrene (193-39-5)

Reason Code:

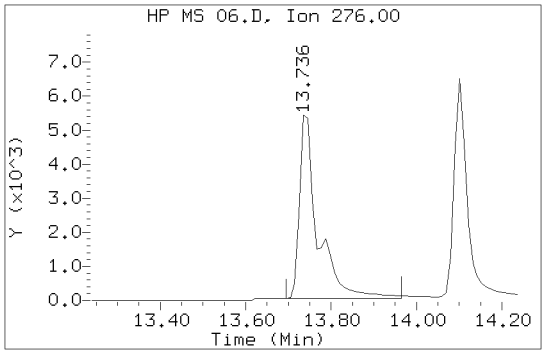
BEFORE

MASS
276
AREA
16176
HEIGHT
5399
18-Dec-2023
10:16
linh
pham



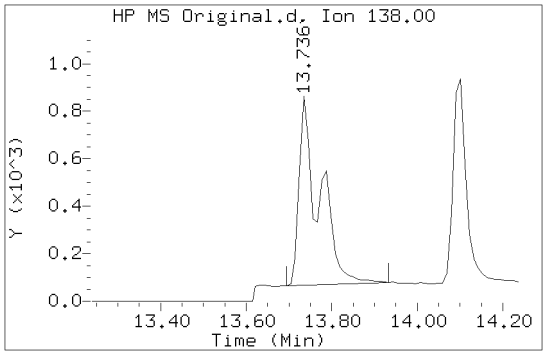
AFTER

MASS
276
AREA
16176
HEIGHT
5399
18-Dec-2023
10:16
linh
pham



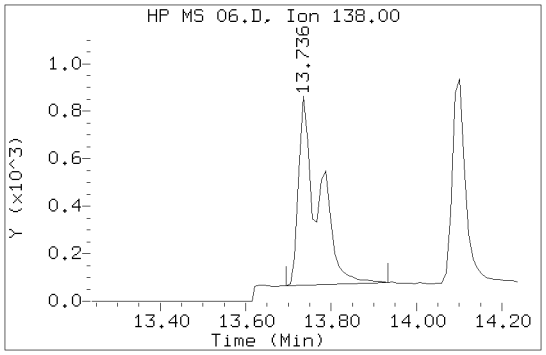
BEFORE

MASS
138
AREA
2586
HEIGHT
796
18-Dec-2023
10:16
linh
pham



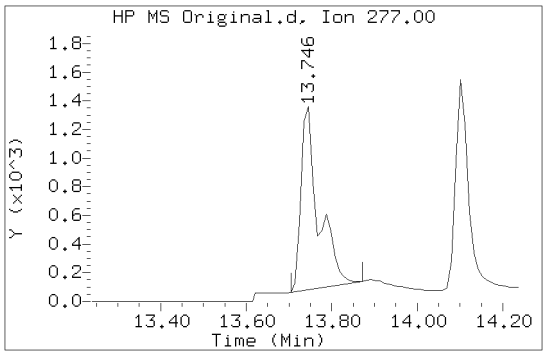
AFTER

MASS
138
AREA
2586
HEIGHT
796
18-Dec-2023
10:16
linh
pham



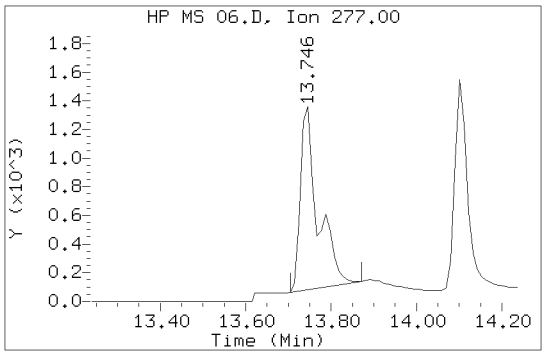
BEFORE

MASS
277
AREA
3606
HEIGHT
1277
18-Dec-2023
10:16
linh
pham



AFTER

MASS
277
AREA
3606
HEIGHT
1277
18-Dec-2023
10:16
linh
pham



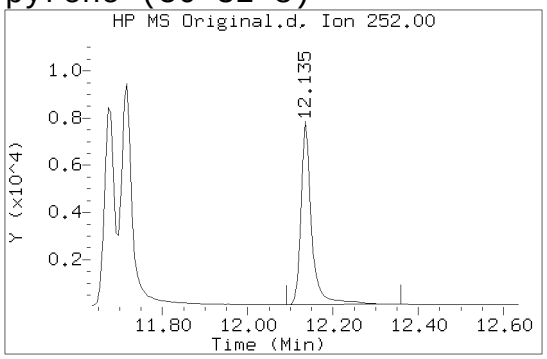
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\06.D
Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

Benzo(a)pyrene (50-32-8)

Reason Code:

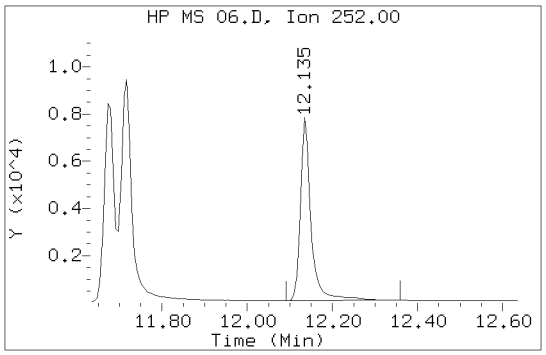
BEFORE

MASS
252
AREA
13740
HEIGHT
7757
18-Dec-2023
10:16
linh
pham



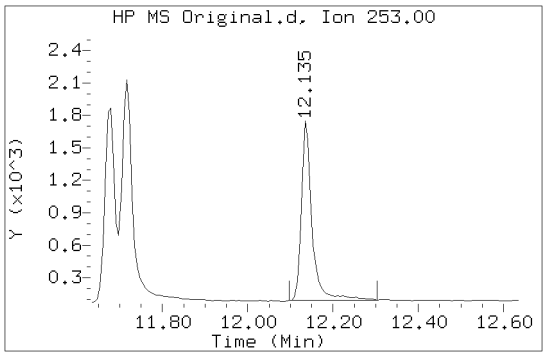
AFTER

MASS
252
AREA
13740
HEIGHT
7757
18-Dec-2023
10:16
linh
pham



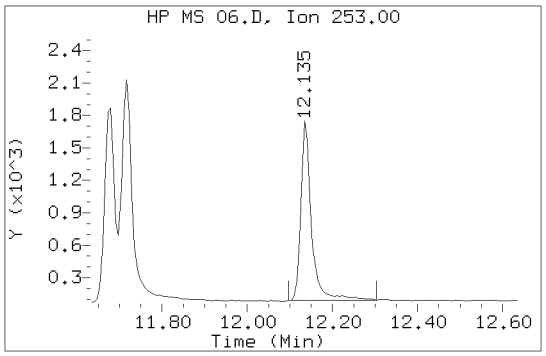
BEFORE

MASS
253
AREA
2910
HEIGHT
1658
18-Dec-2023
10:16
linh
pham



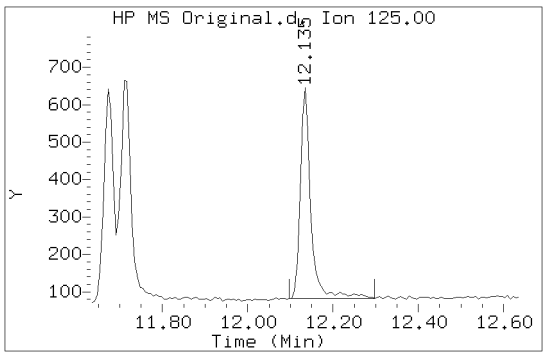
AFTER

MASS
253
AREA
2910
HEIGHT
1658
18-Dec-2023
10:16
linh
pham



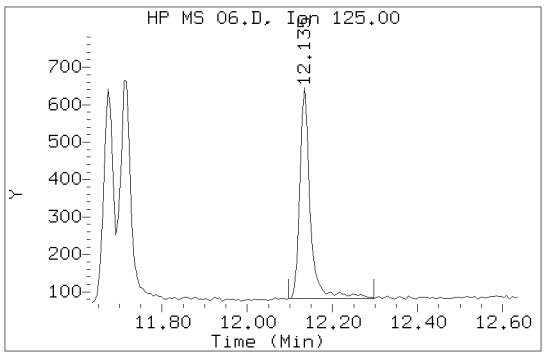
BEFORE

MASS
125
AREA
981
HEIGHT
564
18-Dec-2023
10:16
linh
pham



AFTER

MASS
125
AREA
981
HEIGHT
564
18-Dec-2023
10:16
linh
pham

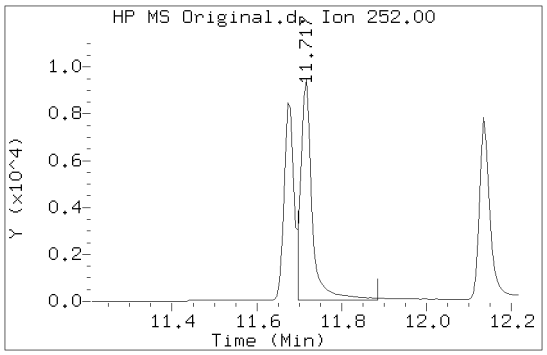


Benzo(k)fluoranthene (207-08-9)

Reason Code:

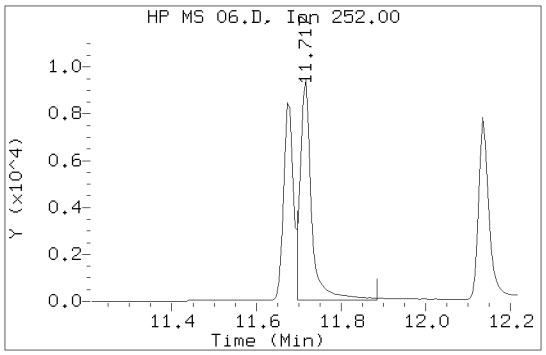
BEFORE

MASS
252
AREA
17371
HEIGHT
9396
18-Dec-2023
10:16
linh
pham



AFTER

MASS
252
AREA
17371
HEIGHT
9396
18-Dec-2023
10:16
linh
pham



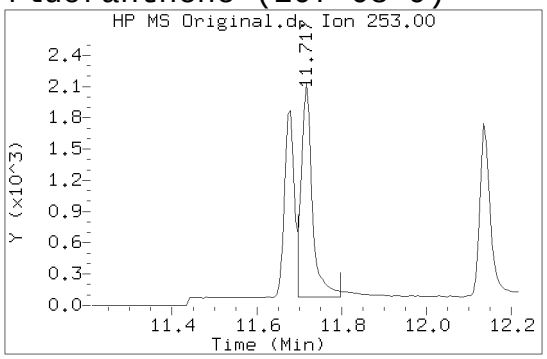
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\06.D
Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

Benzo(k)fluoranthene (207-08-9)

Reason Code:

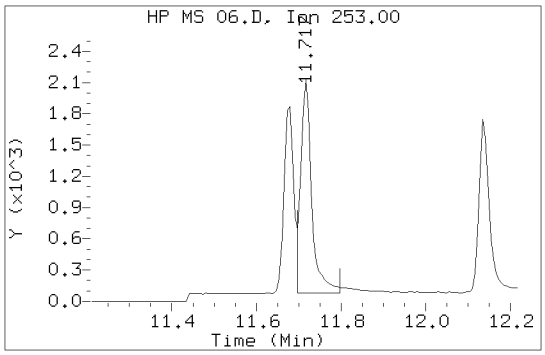
BEFORE

MASS
253
AREA
3729
HEIGHT
2048
18-Dec-2023
10:16
linh
pham



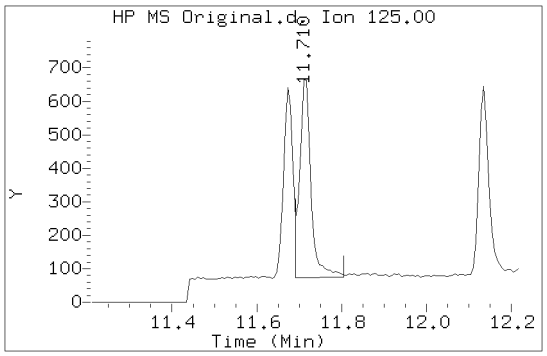
AFTER

MASS
253
AREA
3729
HEIGHT
2048
18-Dec-2023
10:16
linh
pham



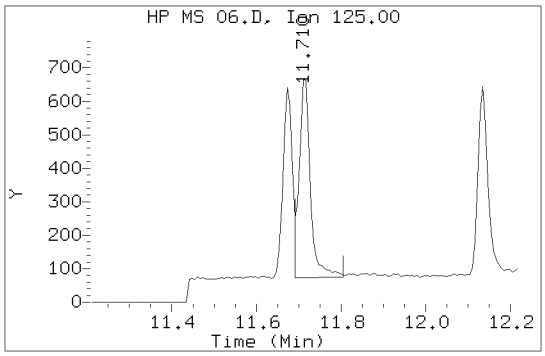
BEFORE

MASS
125
AREA
1113
HEIGHT
590
18-Dec-2023
10:16
linh
pham



AFTER

MASS
125
AREA
1113
HEIGHT
590
18-Dec-2023
10:16
linh
pham

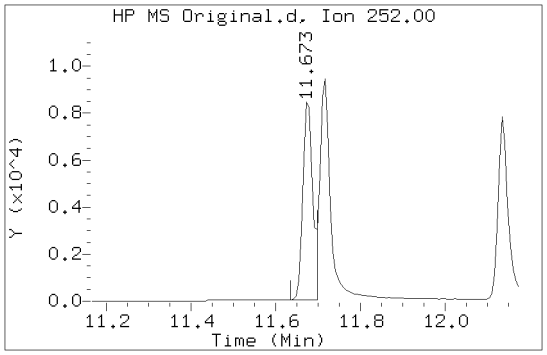


Benzo(b)fluoranthene (205-99-2)

Reason Code:

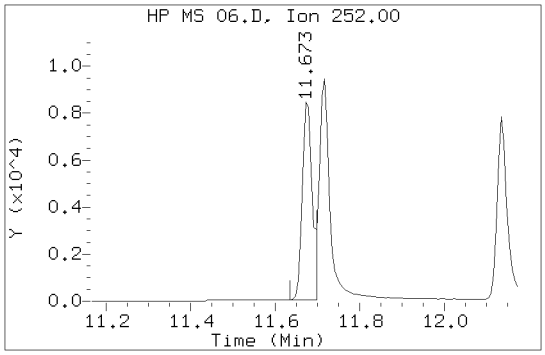
BEFORE

MASS
252
AREA
14264
HEIGHT
8401
18-Dec-2023
10:16
linh
pham



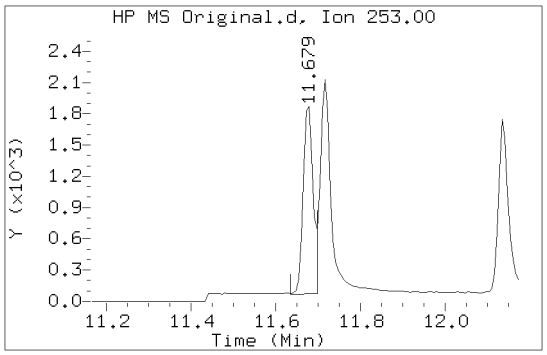
AFTER

MASS
252
AREA
14264
HEIGHT
8401
18-Dec-2023
10:16
linh
pham



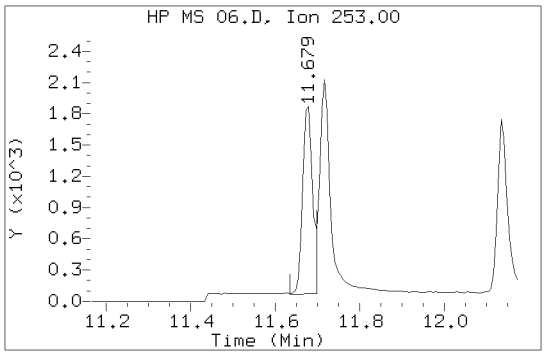
BEFORE

MASS
253
AREA
3071
HEIGHT
1795
18-Dec-2023
10:16
linh
pham



AFTER

MASS
253
AREA
3071
HEIGHT
1795
18-Dec-2023
10:16
linh
pham



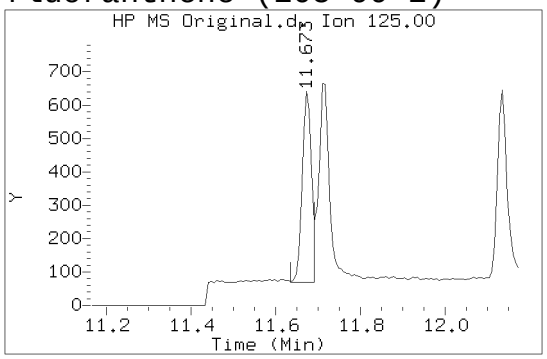
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\06.D
Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

Benzo(b)fluoranthene (205-99-2)

Reason Code:

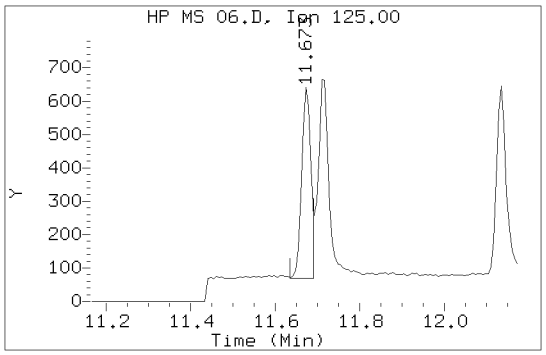
BEFORE

MASS
125
AREA
902
HEIGHT
572
18-Dec-2023
10:16
linh
pham



AFTER

MASS
125
AREA
902
HEIGHT
572
18-Dec-2023
10:16
linh
pham

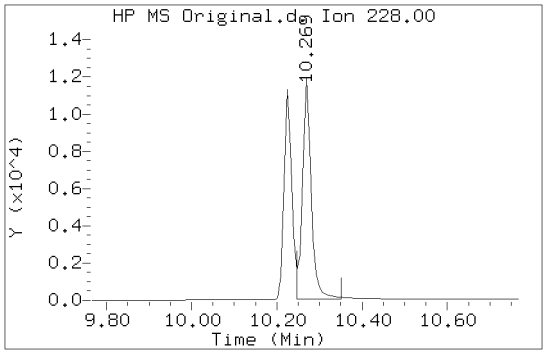


Chrysene (218-01-9)

Reason Code:

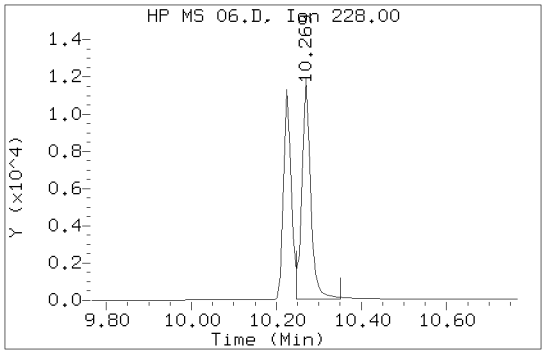
BEFORE

MASS
228
AREA
17029
HEIGHT
11851
18-Dec-2023
10:16
linh
pham



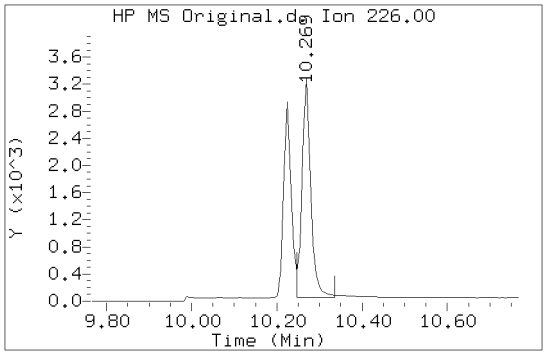
AFTER

MASS
228
AREA
17029
HEIGHT
11851
18-Dec-2023
10:16
linh
pham



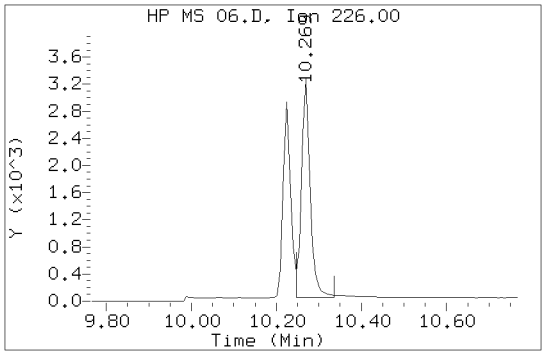
BEFORE

MASS
226
AREA
4617
HEIGHT
3222
18-Dec-2023
10:16
linh
pham



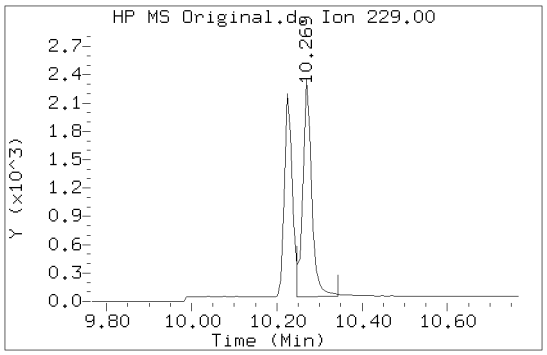
AFTER

MASS
226
AREA
4617
HEIGHT
3222
18-Dec-2023
10:16
linh
pham



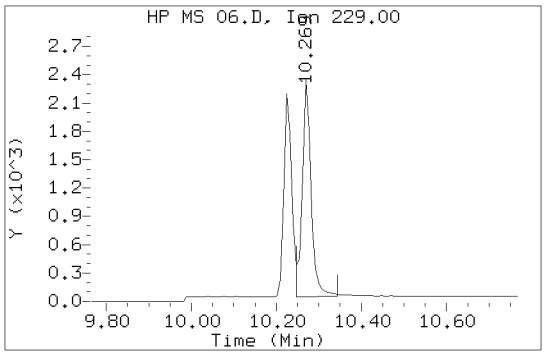
BEFORE

MASS
229
AREA
3338
HEIGHT
2296
18-Dec-2023
10:16
linh
pham



AFTER

MASS
229
AREA
3338
HEIGHT
2296
18-Dec-2023
10:16
linh
pham



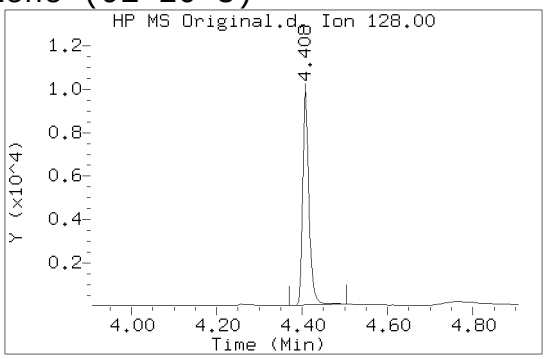
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\06.D
Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

Naphthalene (91-20-3)

Reason Code:

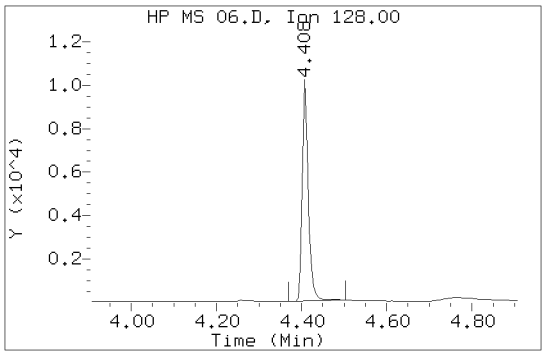
BEFORE

MASS
128
AREA
10183
HEIGHT
10187
18-Dec-2023
10:16
linh
pham



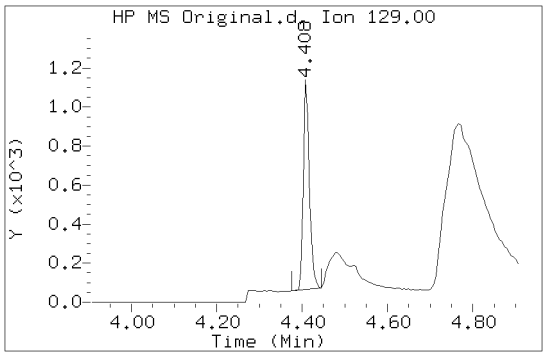
AFTER

MASS
128
AREA
10183
HEIGHT
10187
18-Dec-2023
10:16
linh
pham



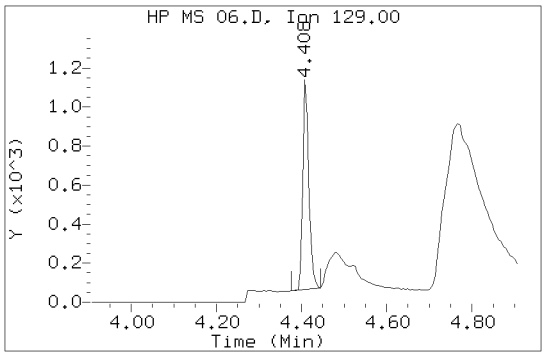
BEFORE

MASS
129
AREA
1072
HEIGHT
1074
18-Dec-2023
10:16
linh
pham



AFTER

MASS
129
AREA
1072
HEIGHT
1074
18-Dec-2023
10:16
linh
pham

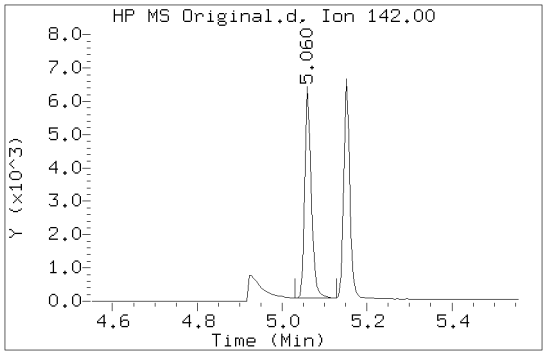


2-Methylnaphthalene (91-57-6)

Reason Code:

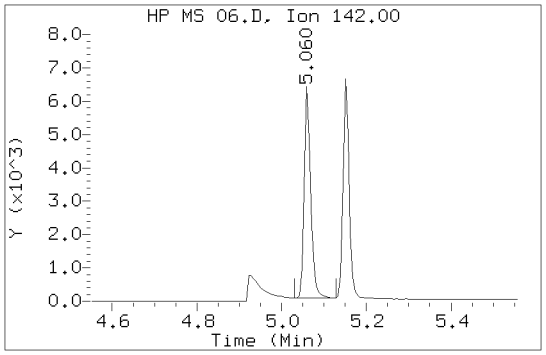
BEFORE

MASS
142
AREA
6820
HEIGHT
6338
18-Dec-2023
10:16
linh
pham



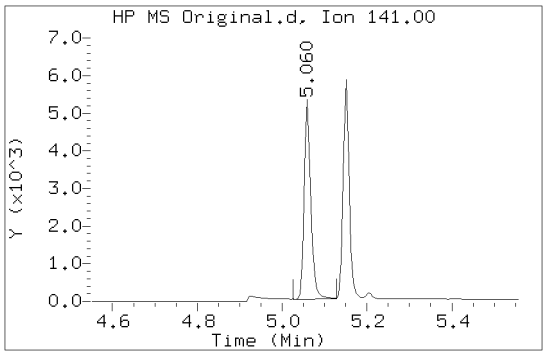
AFTER

MASS
142
AREA
6820
HEIGHT
6338
18-Dec-2023
10:16
linh
pham



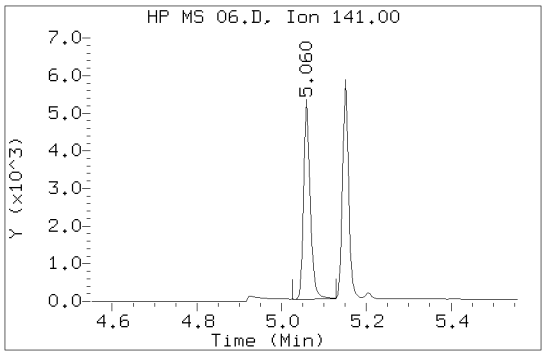
BEFORE

MASS
141
AREA
5900
HEIGHT
5323
18-Dec-2023
10:16
linh
pham



AFTER

MASS
141
AREA
5900
HEIGHT
5323
18-Dec-2023
10:16
linh
pham



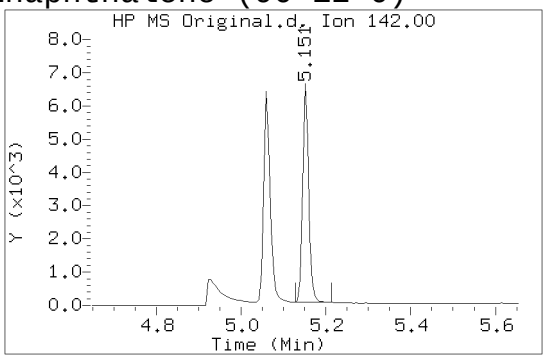
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Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

1-Methylnaphthalene (90-12-0)

Reason Code:

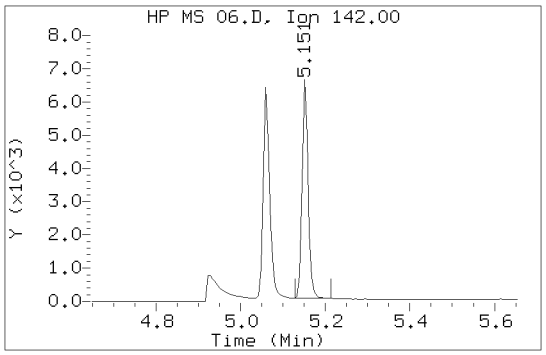
BEFORE

MASS
142
AREA
6389
HEIGHT
6576
18-Dec-2023
10:16
linh
pham



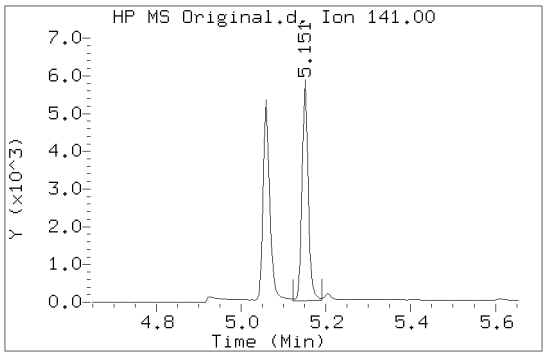
AFTER

MASS
142
AREA
6389
HEIGHT
6576
18-Dec-2023
10:16
linh
pham



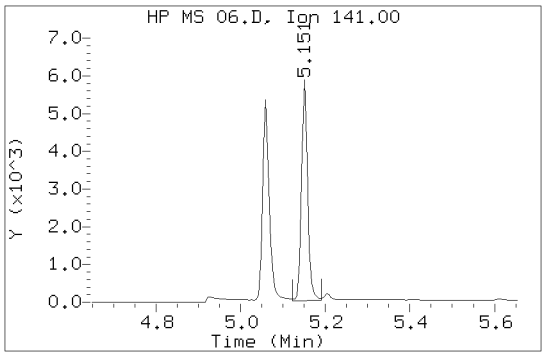
BEFORE

MASS
141
AREA
5805
HEIGHT
5845
18-Dec-2023
10:16
linh
pham



AFTER

MASS
141
AREA
5805
HEIGHT
5845
18-Dec-2023
10:16
linh
pham

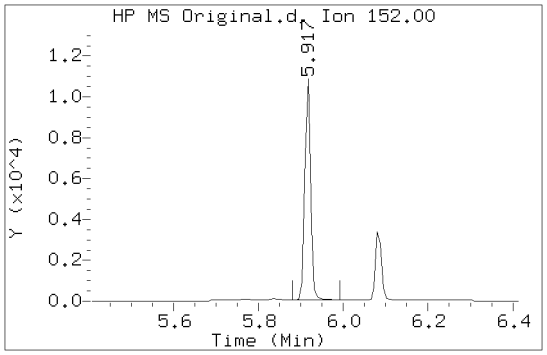


Acenaphthylene (208-96-8)

Reason Code:

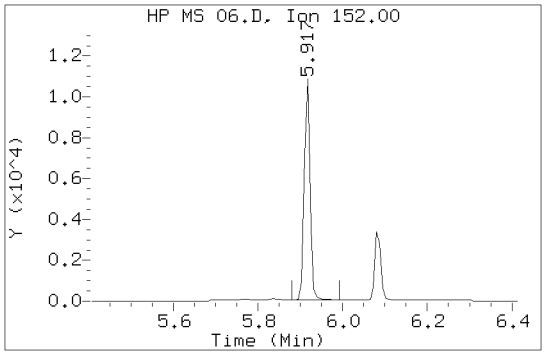
BEFORE

MASS
152
AREA
10270
HEIGHT
10813
18-Dec-2023
10:16
linh
pham



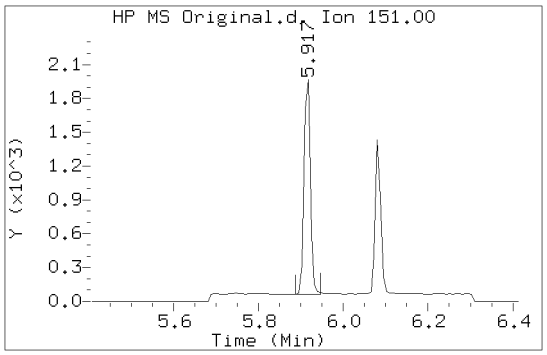
AFTER

MASS
152
AREA
10270
HEIGHT
10813
18-Dec-2023
10:16
linh
pham



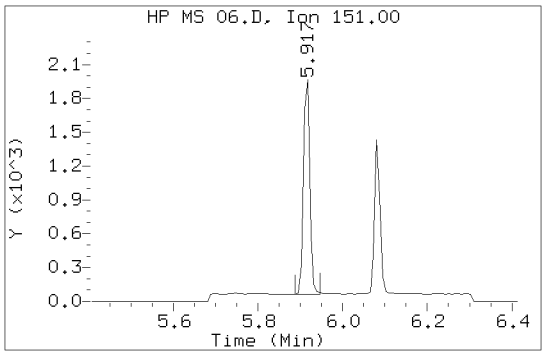
BEFORE

MASS
151
AREA
1989
HEIGHT
1904
18-Dec-2023
10:16
linh
pham



AFTER

MASS
151
AREA
1989
HEIGHT
1904
18-Dec-2023
10:16
linh
pham



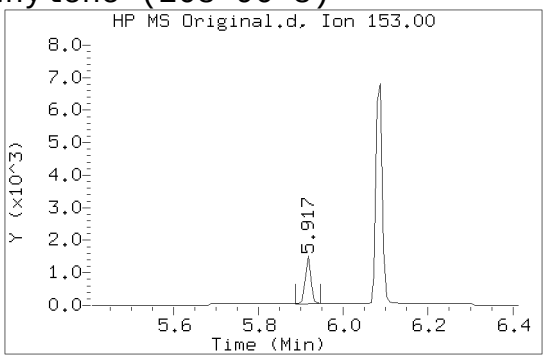
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\06.D
Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

Acenaphthylene (208-96-8)

Reason Code:

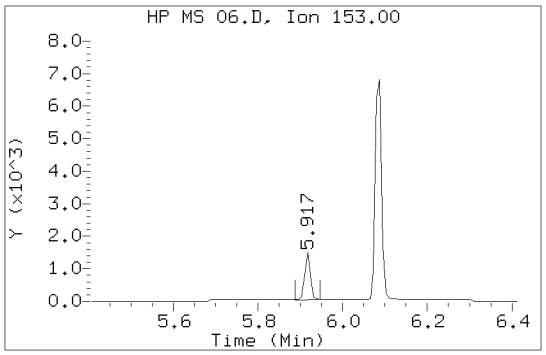
BEFORE

MASS
153
AREA
1343
HEIGHT
1458
18-Dec-2023
10:16
linh
pham



AFTER

MASS
153
AREA
1343
HEIGHT
1458
18-Dec-2023
10:16
linh
pham

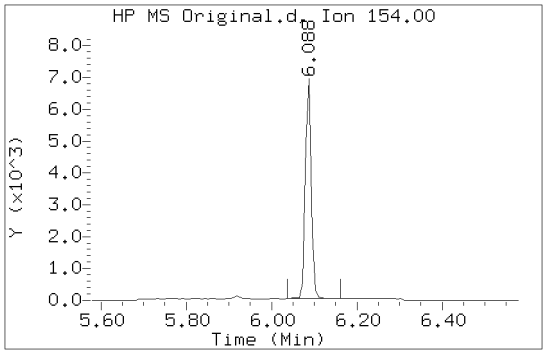


Acenaphthene (83-32-9)

Reason Code:

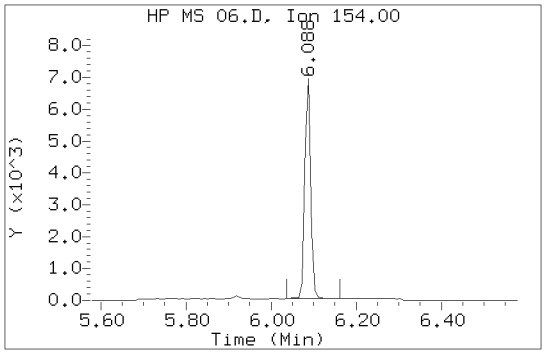
BEFORE

MASS
154
AREA
6572
HEIGHT
6906
18-Dec-2023
10:16
linh
pham



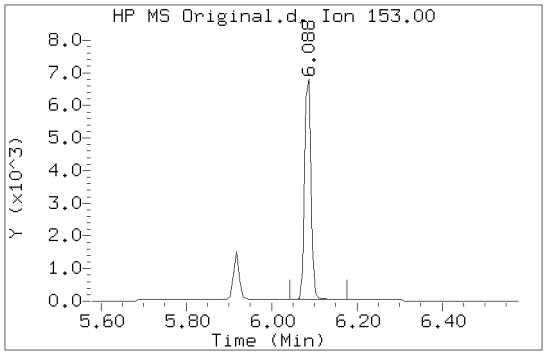
AFTER

MASS
154
AREA
6572
HEIGHT
6906
18-Dec-2023
10:16
linh
pham



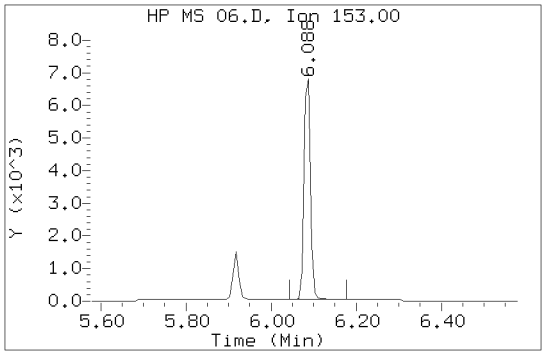
BEFORE

MASS
153
AREA
7004
HEIGHT
6753
18-Dec-2023
10:16
linh
pham



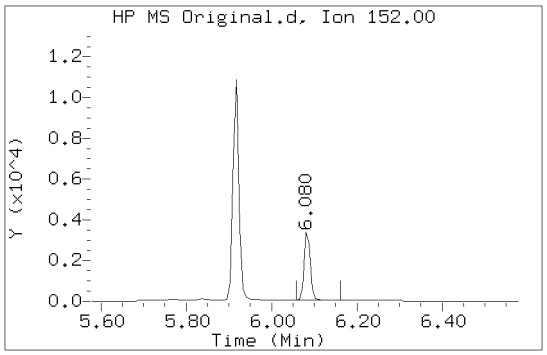
AFTER

MASS
153
AREA
7004
HEIGHT
6753
18-Dec-2023
10:16
linh
pham



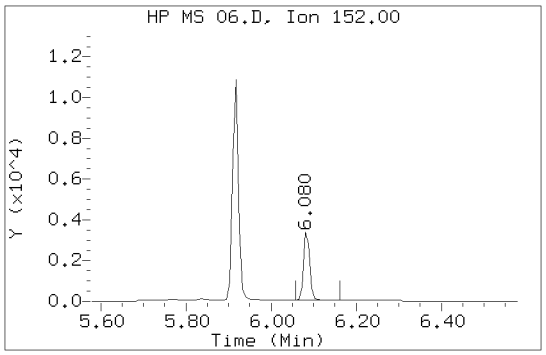
BEFORE

MASS
152
AREA
3311
HEIGHT
3323
18-Dec-2023
10:16
linh
pham



AFTER

MASS
152
AREA
3311
HEIGHT
3323
18-Dec-2023
10:16
linh
pham



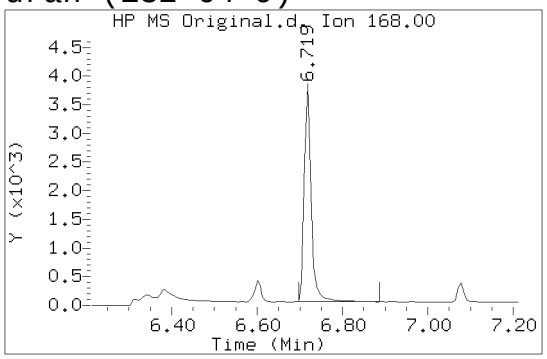
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\06.D
Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

Dibenzofuran (132-64-9)

Reason Code:

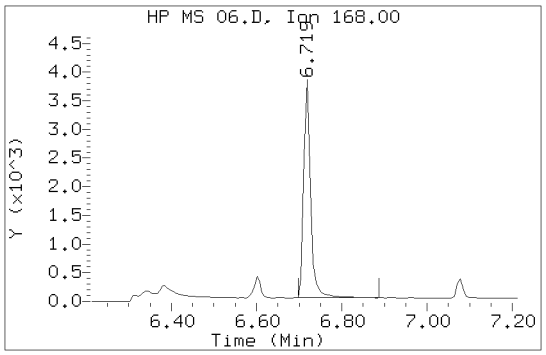
BEFORE

MASS
168
AREA
4160
HEIGHT
3800
18-Dec-2023
10:16
linh
pham



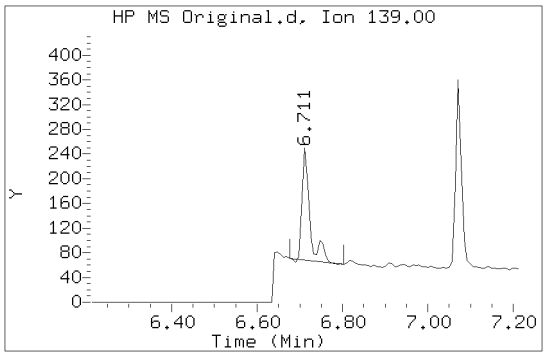
AFTER

MASS
168
AREA
4160
HEIGHT
3800
18-Dec-2023
10:16
linh
pham



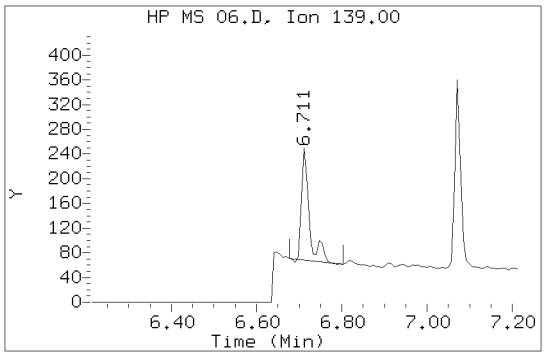
BEFORE

MASS
139
AREA
221
HEIGHT
181
18-Dec-2023
10:16
linh
pham



AFTER

MASS
139
AREA
221
HEIGHT
181
18-Dec-2023
10:16
linh
pham

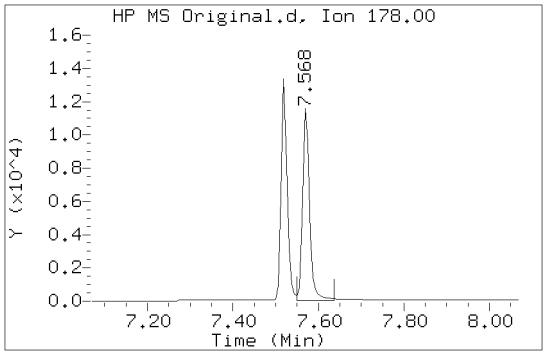


Anthracene (120-12-7)

Reason Code:

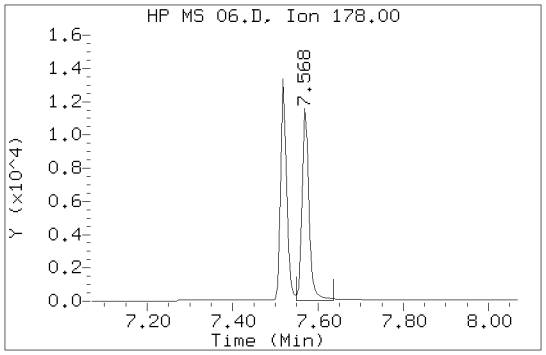
BEFORE

MASS
178
AREA
12948
HEIGHT
11565
18-Dec-2023
10:16
linh
pham



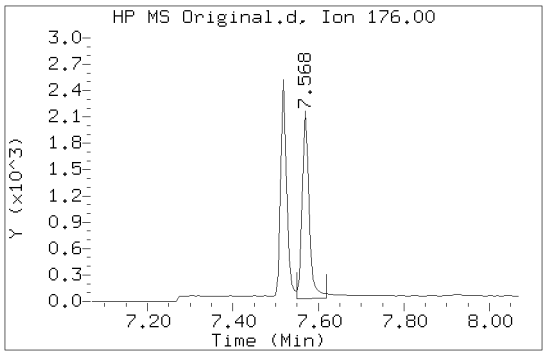
AFTER

MASS
178
AREA
12948
HEIGHT
11565
18-Dec-2023
10:16
linh
pham



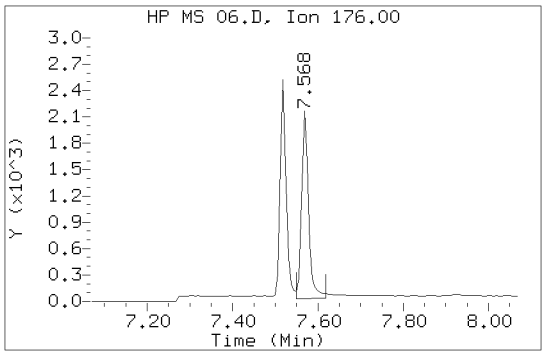
BEFORE

MASS
176
AREA
2374
HEIGHT
2139
18-Dec-2023
10:16
linh
pham



AFTER

MASS
176
AREA
2374
HEIGHT
2139
18-Dec-2023
10:16
linh
pham



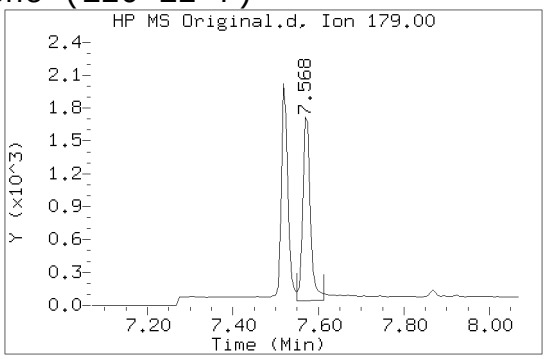
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\06.D
Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

Anthracene (120-12-7)

Reason Code:

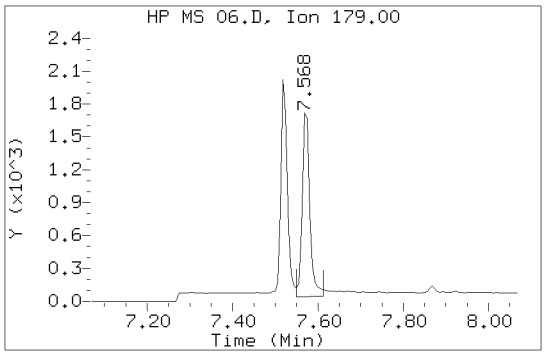
BEFORE

MASS
179
AREA
2067
HEIGHT
1678
18-Dec-2023
10:16
linh
pham



AFTER

MASS
179
AREA
2067
HEIGHT
1678
18-Dec-2023
10:16
linh
pham

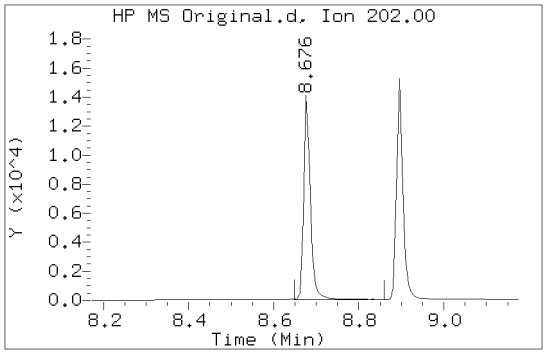


Fluoranthene (206-44-0)

Reason Code:

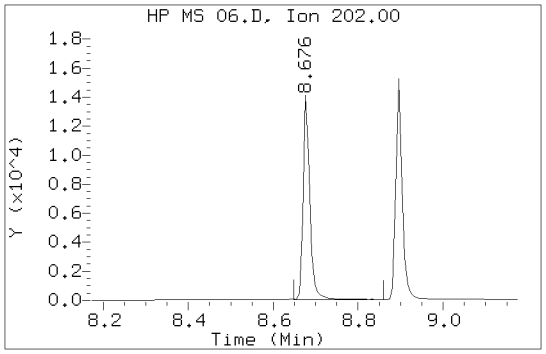
BEFORE

MASS
202
AREA
15163
HEIGHT
14061
18-Dec-2023
10:16
linh
pham



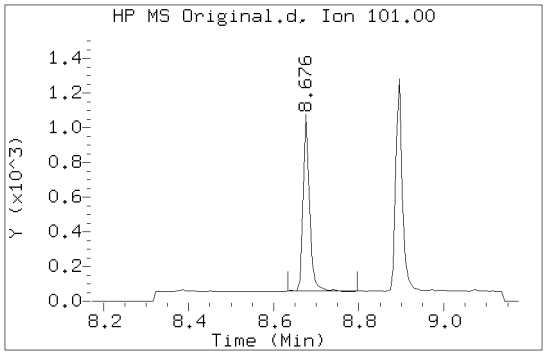
AFTER

MASS
202
AREA
15163
HEIGHT
14061
18-Dec-2023
10:16
linh
pham



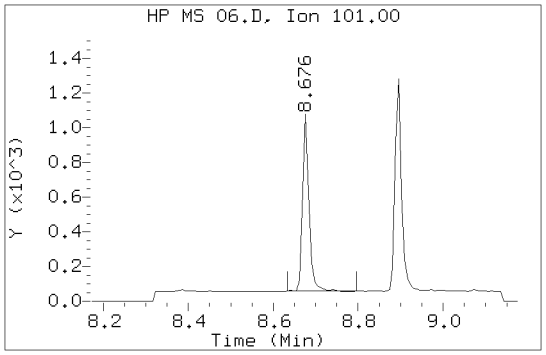
BEFORE

MASS
101
AREA
1063
HEIGHT
1018
18-Dec-2023
10:16
linh
pham



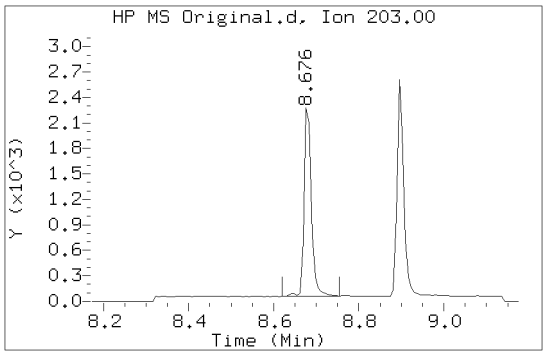
AFTER

MASS
101
AREA
1063
HEIGHT
1018
18-Dec-2023
10:16
linh
pham



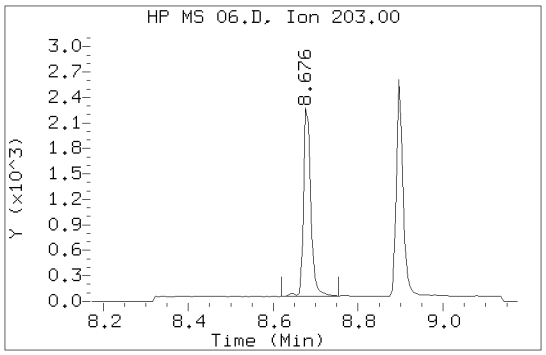
BEFORE

MASS
203
AREA
2620
HEIGHT
2220
18-Dec-2023
10:16
linh
pham



AFTER

MASS
203
AREA
2620
HEIGHT
2220
18-Dec-2023
10:16
linh
pham



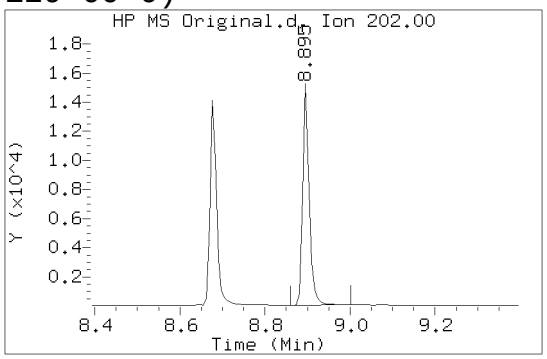
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Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

Pyrene (129-00-0)

Reason Code:

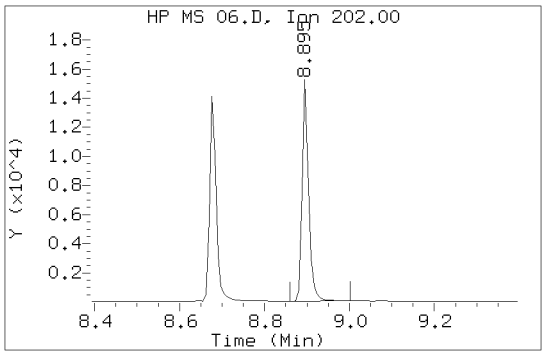
BEFORE

MASS
202
AREA
15971
HEIGHT
15202
18-Dec-2023
10:16
linh
pham



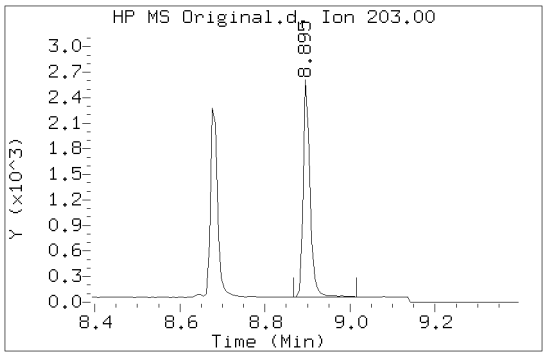
AFTER

MASS
202
AREA
15971
HEIGHT
15202
18-Dec-2023
10:16
linh
pham



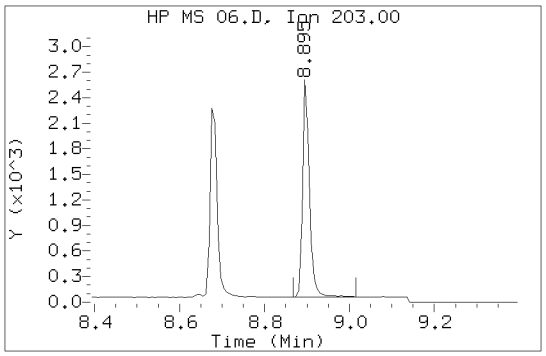
BEFORE

MASS
203
AREA
2799
HEIGHT
2547
18-Dec-2023
10:16
linh
pham



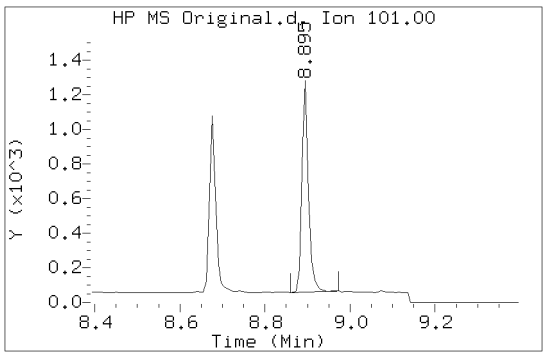
AFTER

MASS
203
AREA
2799
HEIGHT
2547
18-Dec-2023
10:16
linh
pham



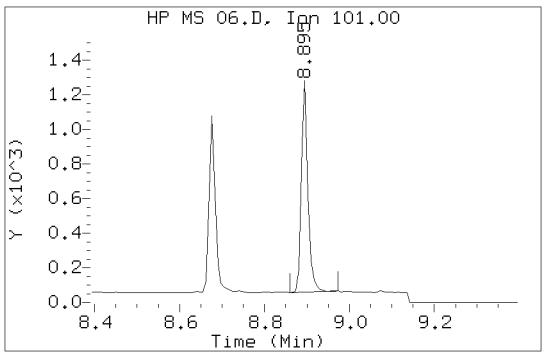
BEFORE

MASS
101
AREA
1305
HEIGHT
1223
18-Dec-2023
10:16
linh
pham



AFTER

MASS
101
AREA
1305
HEIGHT
1223
18-Dec-2023
10:16
linh
pham

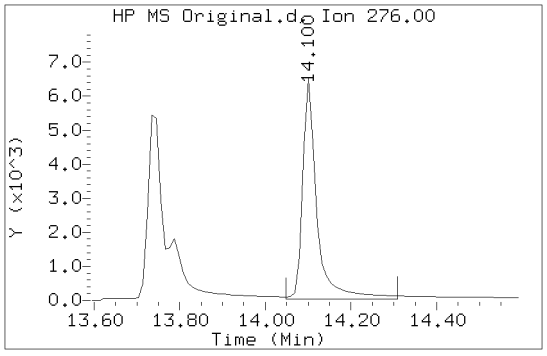


Benzo(g,h,i)perylene (191-24-2)

Reason Code:

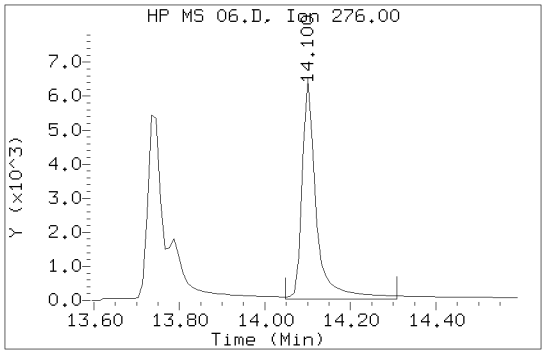
BEFORE

MASS
276
AREA
14984
HEIGHT
6473
18-Dec-2023
10:16
linh
pham



AFTER

MASS
276
AREA
14984
HEIGHT
6473
18-Dec-2023
10:16
linh
pham



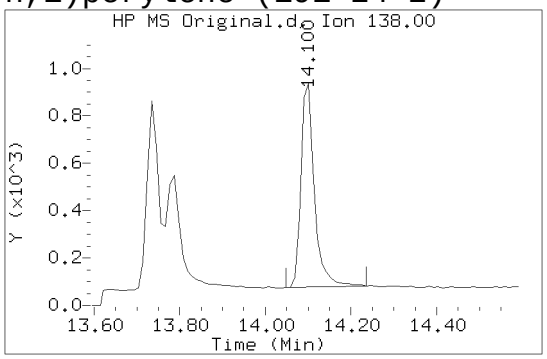
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Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

Benzo(g,h,i)perylene (191-24-2)

Reason Code:

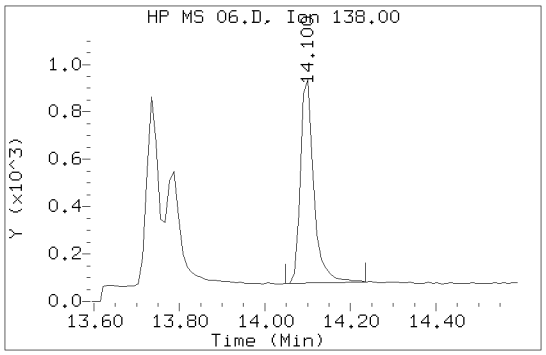
BEFORE

MASS
138
AREA
1867
HEIGHT
859
18-Dec-2023
10:16
linh
pham



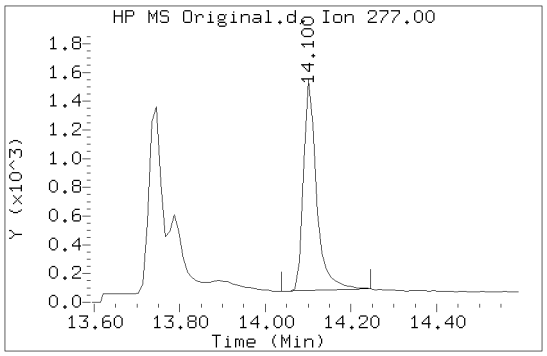
AFTER

MASS
138
AREA
1867
HEIGHT
859
18-Dec-2023
10:16
linh
pham



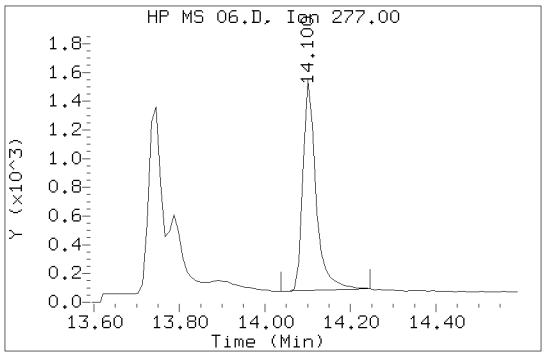
BEFORE

MASS
277
AREA
3106
HEIGHT
1466
18-Dec-2023
10:16
linh
pham



AFTER

MASS
277
AREA
3106
HEIGHT
1466
18-Dec-2023
10:16
linh
pham

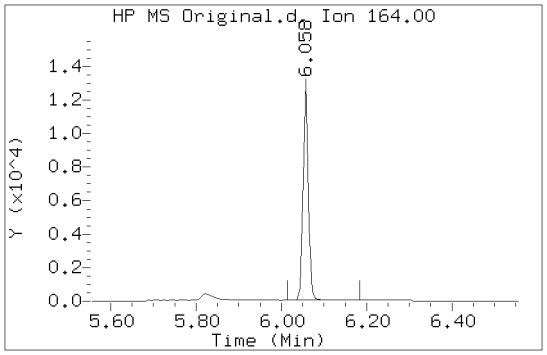


Acenaphthene-d10 (15067-26-2)

Reason Code:

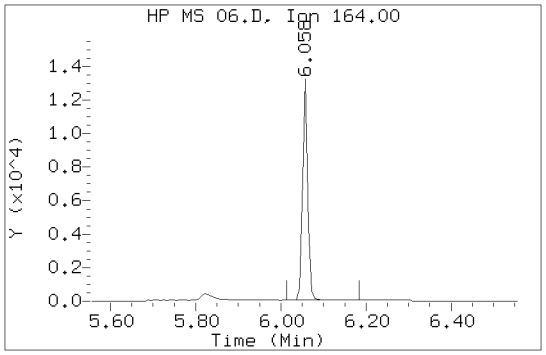
BEFORE

MASS
164
AREA
11683
HEIGHT
13197
18-Dec-2023
10:16
linh
pham



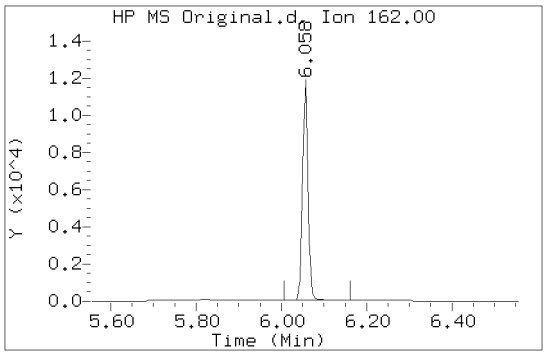
AFTER

MASS
164
AREA
11683
HEIGHT
13197
18-Dec-2023
10:16
linh
pham



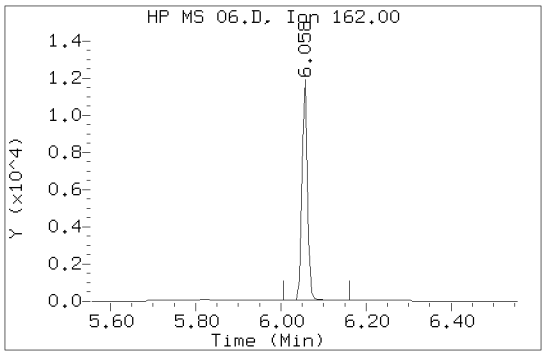
BEFORE

MASS
162
AREA
11274
HEIGHT
11862
18-Dec-2023
10:16
linh
pham



AFTER

MASS
162
AREA
11274
HEIGHT
11862
18-Dec-2023
10:16
linh
pham



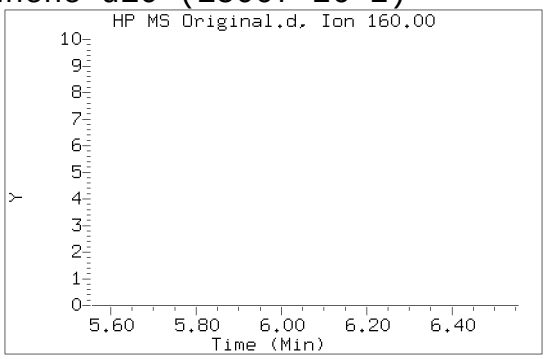
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\06.D
Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

Acenaphthene-d10 (15067-26-2)

Reason Code:

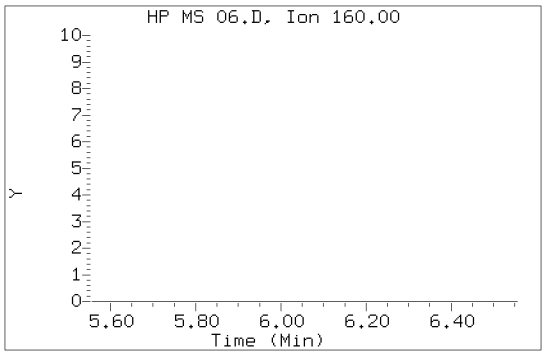
BEFORE

MASS
160
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
160
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham

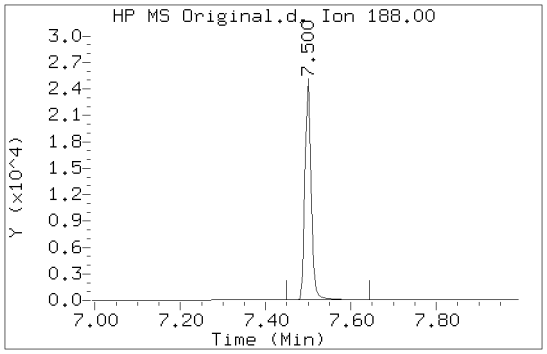


Phenanthrene-d10 (1517-22-2)

Reason Code:

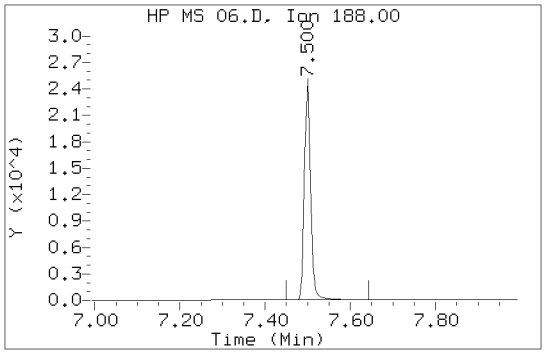
BEFORE

MASS
188
AREA
24303
HEIGHT
25107
18-Dec-2023
10:16
linh
pham



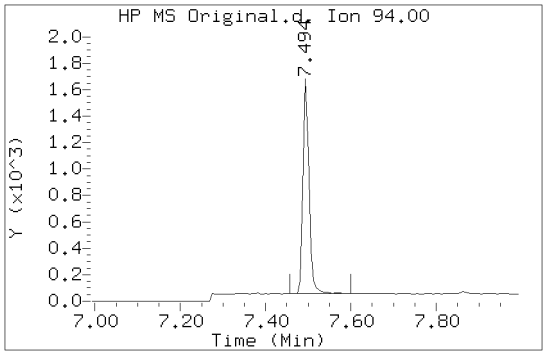
AFTER

MASS
188
AREA
24303
HEIGHT
25107
18-Dec-2023
10:16
linh
pham



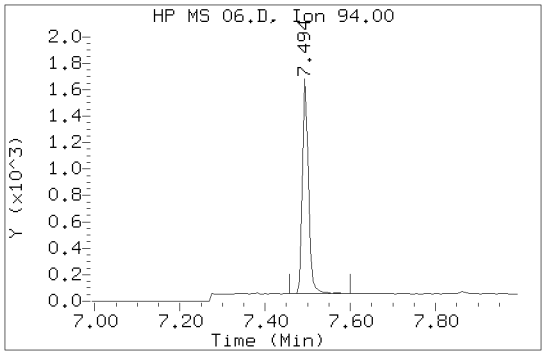
BEFORE

MASS
94
AREA
1558
HEIGHT
1625
18-Dec-2023
10:16
linh
pham



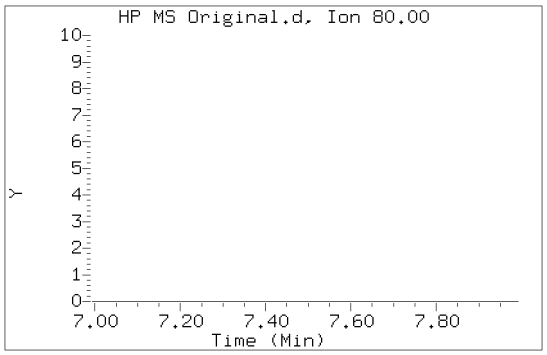
AFTER

MASS
94
AREA
1558
HEIGHT
1625
18-Dec-2023
10:16
linh
pham



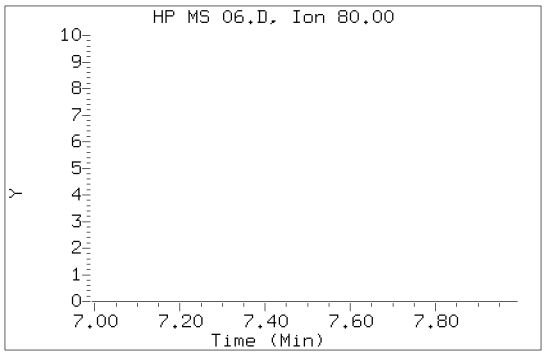
BEFORE

MASS
80
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
80
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



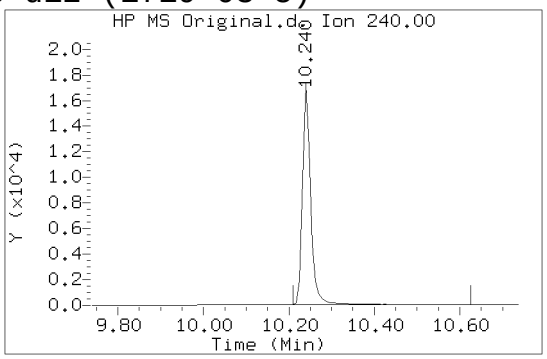
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\06.D
Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

Chrysene-d12 (1719-03-5)

Reason Code:

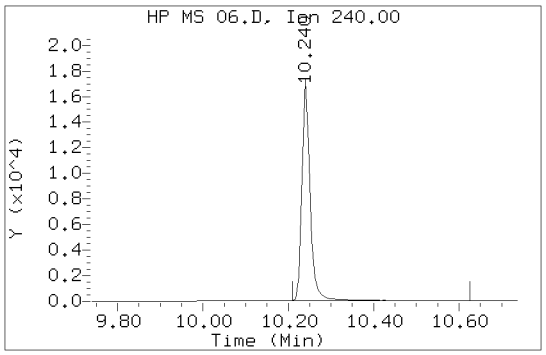
BEFORE

MASS
240
AREA
22699
HEIGHT
17265
18-Dec-2023
10:16
linh
pham



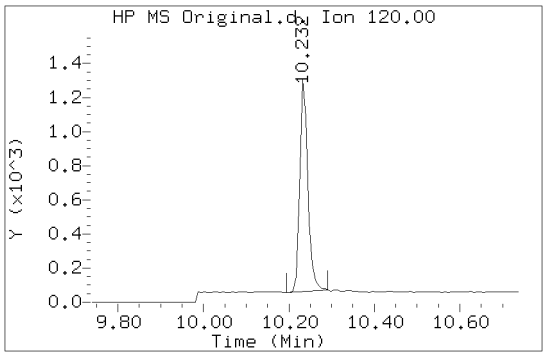
AFTER

MASS
240
AREA
22699
HEIGHT
17265
18-Dec-2023
10:16
linh
pham



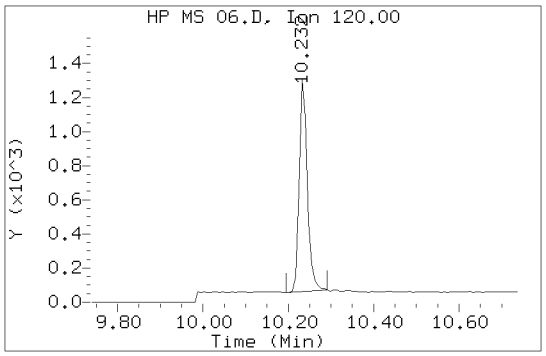
BEFORE

MASS
120
AREA
1613
HEIGHT
1240
18-Dec-2023
10:16
linh
pham



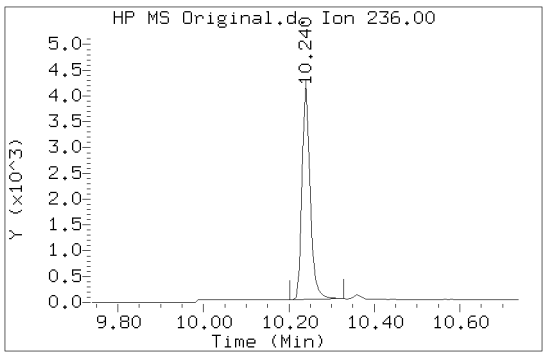
AFTER

MASS
120
AREA
1613
HEIGHT
1240
18-Dec-2023
10:16
linh
pham



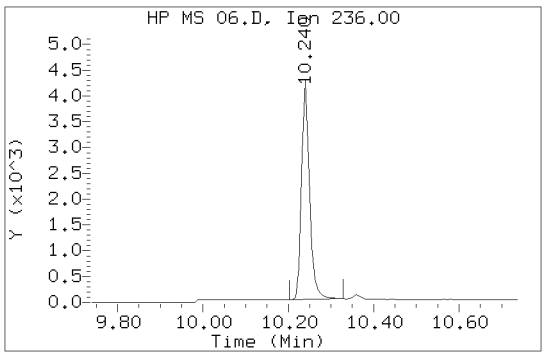
BEFORE

MASS
236
AREA
5480
HEIGHT
4241
18-Dec-2023
10:16
linh
pham



AFTER

MASS
236
AREA
5480
HEIGHT
4241
18-Dec-2023
10:16
linh
pham

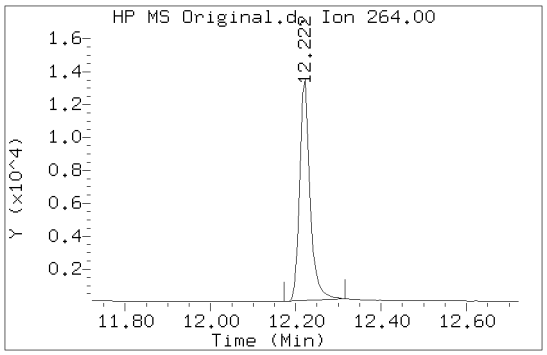


Perylene-d12 (1520-96-3)

Reason Code:

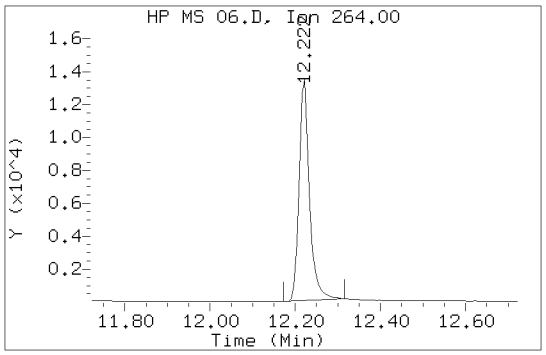
BEFORE

MASS
264
AREA
23087
HEIGHT
13412
18-Dec-2023
10:16
linh
pham



AFTER

MASS
264
AREA
23087
HEIGHT
13412
18-Dec-2023
10:16
linh
pham



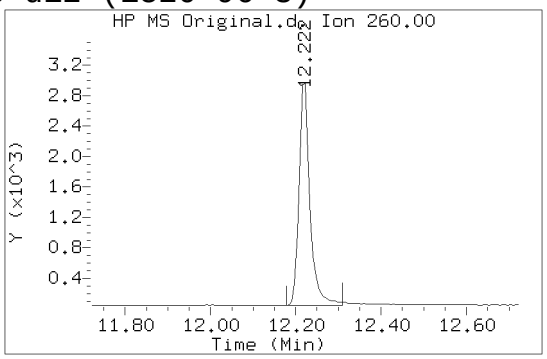
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\06.D
Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

Perylene-d12 (1520-96-3)

Reason Code:

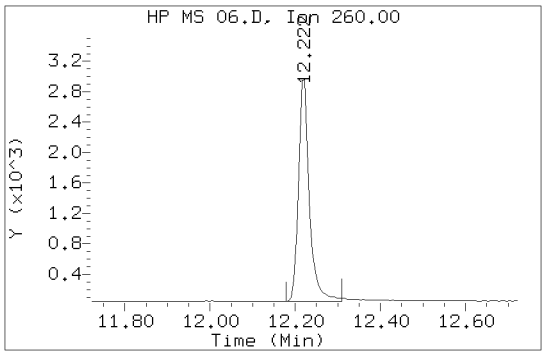
BEFORE

MASS
260
AREA
5258
HEIGHT
2908
18-Dec-2023
10:16
linh
pham



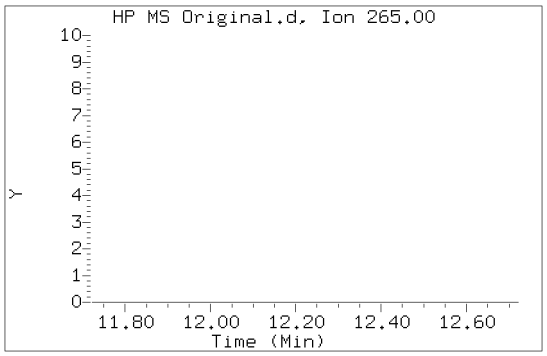
AFTER

MASS
260
AREA
5258
HEIGHT
2908
18-Dec-2023
10:16
linh
pham



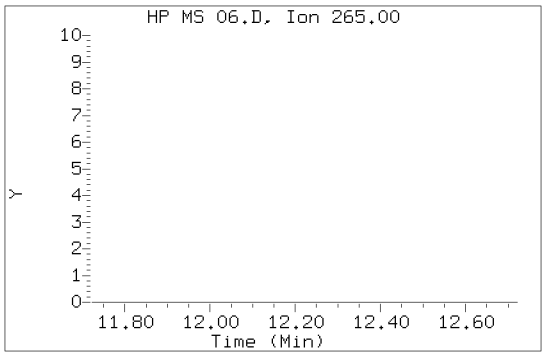
BEFORE

MASS
265
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
265
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham

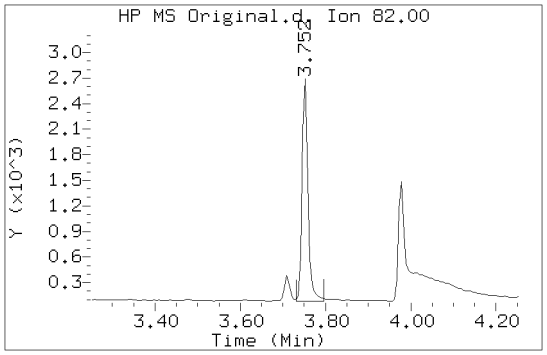


Nitrobenzene-d5 (4165-60-0)

Reason Code:

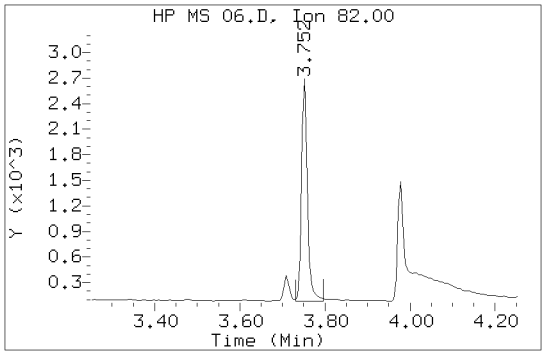
BEFORE

MASS
82
AREA
2458
HEIGHT
2608
18-Dec-2023
10:16
linh
pham



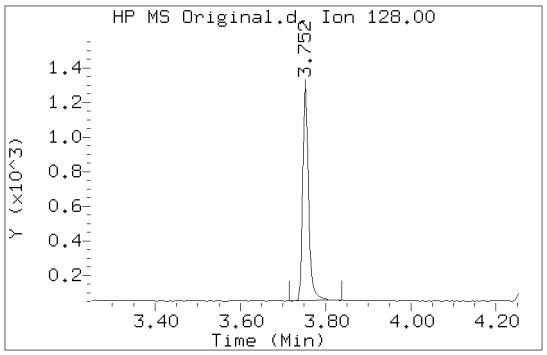
AFTER

MASS
82
AREA
2458
HEIGHT
2608
18-Dec-2023
10:16
linh
pham



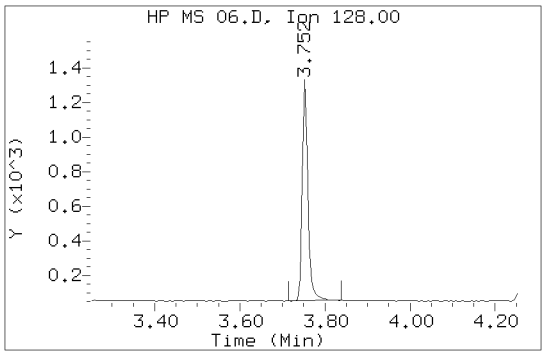
BEFORE

MASS
128
AREA
1148
HEIGHT
1278
18-Dec-2023
10:16
linh
pham



AFTER

MASS
128
AREA
1148
HEIGHT
1278
18-Dec-2023
10:16
linh
pham



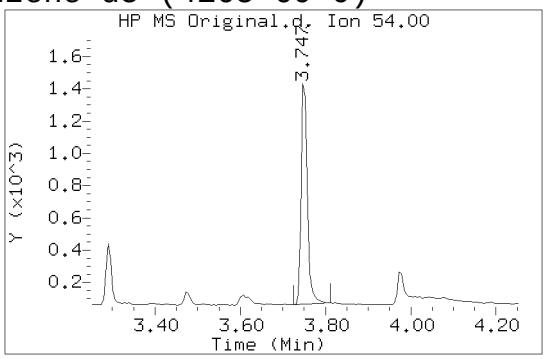
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\06.D
Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

Nitrobenzene-d5 (4165-60-0)

Reason Code:

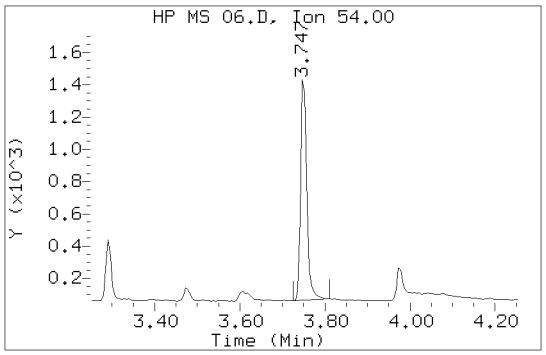
BEFORE

MASS
54
AREA
1358
HEIGHT
1367
18-Dec-2023
10:16
linh
pham



AFTER

MASS
54
AREA
1358
HEIGHT
1367
18-Dec-2023
10:16
linh
pham

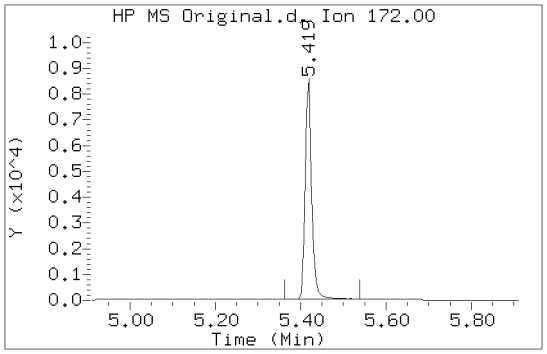


2-Fluorobiphenyl (321-60-8)

Reason Code:

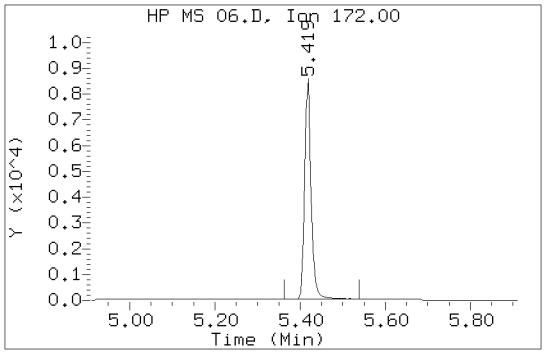
BEFORE

MASS
172
AREA
9114
HEIGHT
8547
18-Dec-2023
10:16
linh
pham



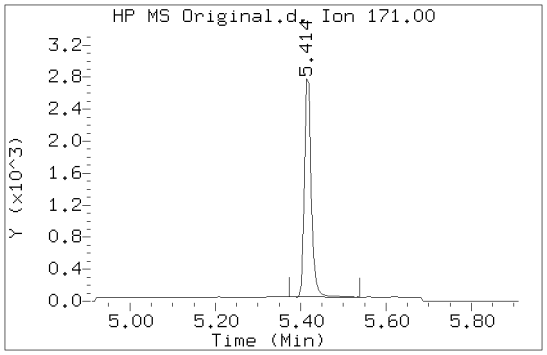
AFTER

MASS
172
AREA
9114
HEIGHT
8547
18-Dec-2023
10:16
linh
pham



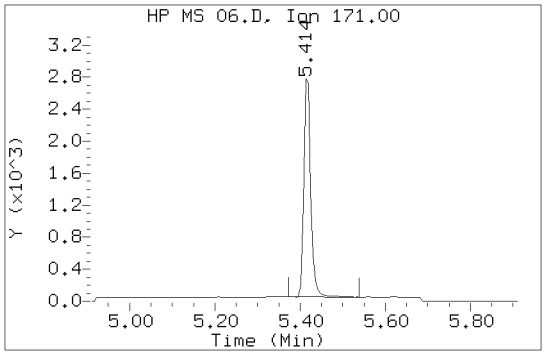
BEFORE

MASS
171
AREA
3093
HEIGHT
2724
18-Dec-2023
10:16
linh
pham



AFTER

MASS
171
AREA
3093
HEIGHT
2724
18-Dec-2023
10:16
linh
pham

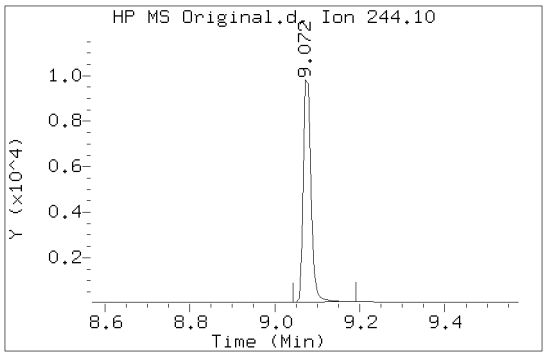


4-Terphenyl-d14 (1718-51-0)

Reason Code:

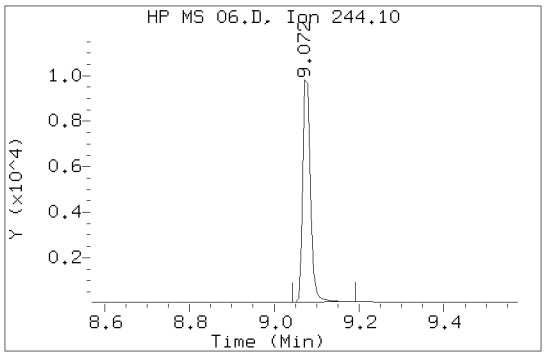
BEFORE

MASS
244.1
AREA
10988
HEIGHT
9765
18-Dec-2023
10:16
linh
pham



AFTER

MASS
244.1
AREA
10988
HEIGHT
9765
18-Dec-2023
10:16
linh
pham



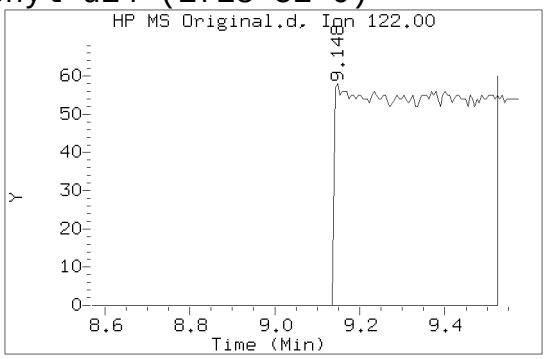
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Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

4-Terphenyl-d14 (1718-51-0)

Reason Code:

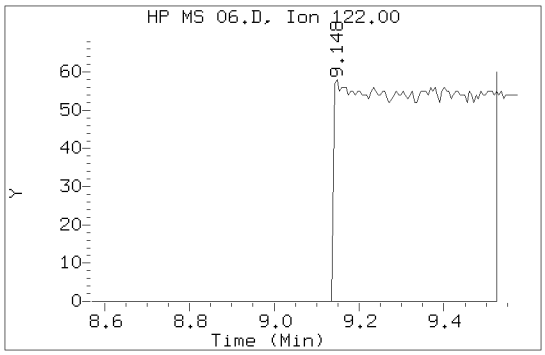
BEFORE

MASS
122
AREA
1270
HEIGHT
58
18-Dec-2023
10:16
linh
pham



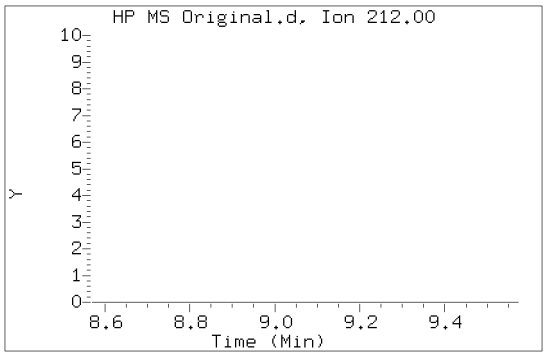
AFTER

MASS
122
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1270
HEIGHT
58
18-Dec-2023
10:16
linh
pham



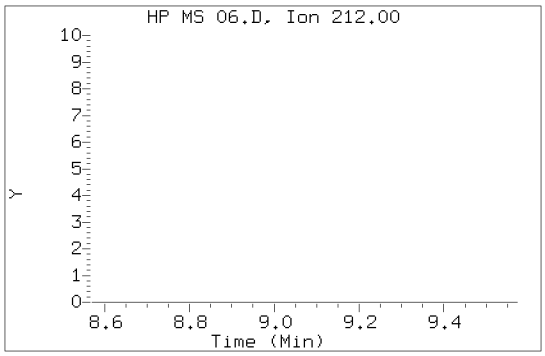
BEFORE

MASS
212
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
212
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\231212.b\07.D
Lab Smp Id: PAHSIM-0.10 Client Smp ID: PAHSIM-0.10
Inj Date : 12-DEC-2023 14:59
Operator : LG Inst ID: SV6.i
Smp Info : PAHSIM-0.10
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\231212.b\PAHSIM1.m
Meth Date : 18-Dec-2023 10:17 SV6.i Quant Type: ISTD
Cal Date : 12-DEC-2023 14:39 Cal File: 06.D
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: llpahdbf.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 45 Naphthalene-d8	136	4.391	4.391	(1.000)	19512	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.752	3.752	(0.854)	5270	0.10000	0.09795(M)
* 86 Acenaphthene-d10	164	6.058	6.058	(1.000)	11904	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	5.413	5.413	(0.894)	18822	0.10000	0.09929
* 126 Phenanthrene-d10	188	7.499	7.499	(1.000)	24679	0.10000	(M)
* 182 Chrysene-d12	240	10.239	10.239	(1.000)	22845	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.071	9.071	(0.886)	22359	0.10000	0.09638(M)
* 198 Perylene-d12	264	12.216	12.216	(1.000)	23969	0.10000	(M)
46 Naphthalene	128	4.407	4.407	(1.004)	21296	0.10000	0.09948(M)
61 2-Methylnaphthalene	142	5.059	5.059	(1.152)	14233	0.10000	0.09942(M)
62 1-Methylnaphthalene	142	5.150	5.150	(1.173)	13318	0.10000	0.09970(M)
83 Acenaphthylene	152	5.917	5.917	(0.977)	21551	0.10000	0.09901
88 Acenaphthene	154	6.080	6.080	(1.004)	13603	0.10000	0.09912(M)
98 Fluorene	166	6.583	6.583	(1.087)	16702	0.10000	0.09899
92 Dibenzofuran	168	6.718	6.718	(1.109)	8792	0.10000	0.09881(M)
128 Phenanthrene	178	7.518	7.518	(1.002)	26664	0.10000	0.09871(M)
130 Anthracene	178	7.568	7.568	(1.009)	26722	0.10000	0.09927(M)
149 Fluoranthene	202	8.676	8.676	(1.157)	31373	0.10000	0.09765(M)
155 Pyrene	202	8.895	8.895	(0.869)	33015	0.10000	0.09940(M)

181 Benzo(a)Anthracene	228	10.224	10.224 (0.999)	30502	0.10000	0.09846
183 Chrysene	228	10.269	10.269 (1.003)	34289	0.10000	0.09930(M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
192 Benzo(b)fluoranthene	252	11.672	11.672	(0.956)	28420	0.10000	0.09552
195 Benzo(k)fluoranthene	252	11.710	11.710	(0.959)	35938	0.10000	0.09982(M)
197 Benzo(a)pyrene	252	12.134	12.134	(0.993)	27584	0.10000	0.09565(M)
209 Indeno(1,2,3-cd)pyrene	276	13.735	13.735	(1.124)	33508	0.10000	0.09710(M)
210 Dibenzo(a,h)anthracene	278	13.787	13.787	(1.129)	28282	0.10000	0.09867(M)
212 Benzo(g,h,i)perylene	276	14.100	14.100	(1.154)	30097	0.10000	0.09765(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\231212.b\07.D

Date : 12-DEC-2023 14:59

Client ID: PAHSIM-0.10

Instrument: SV6.i

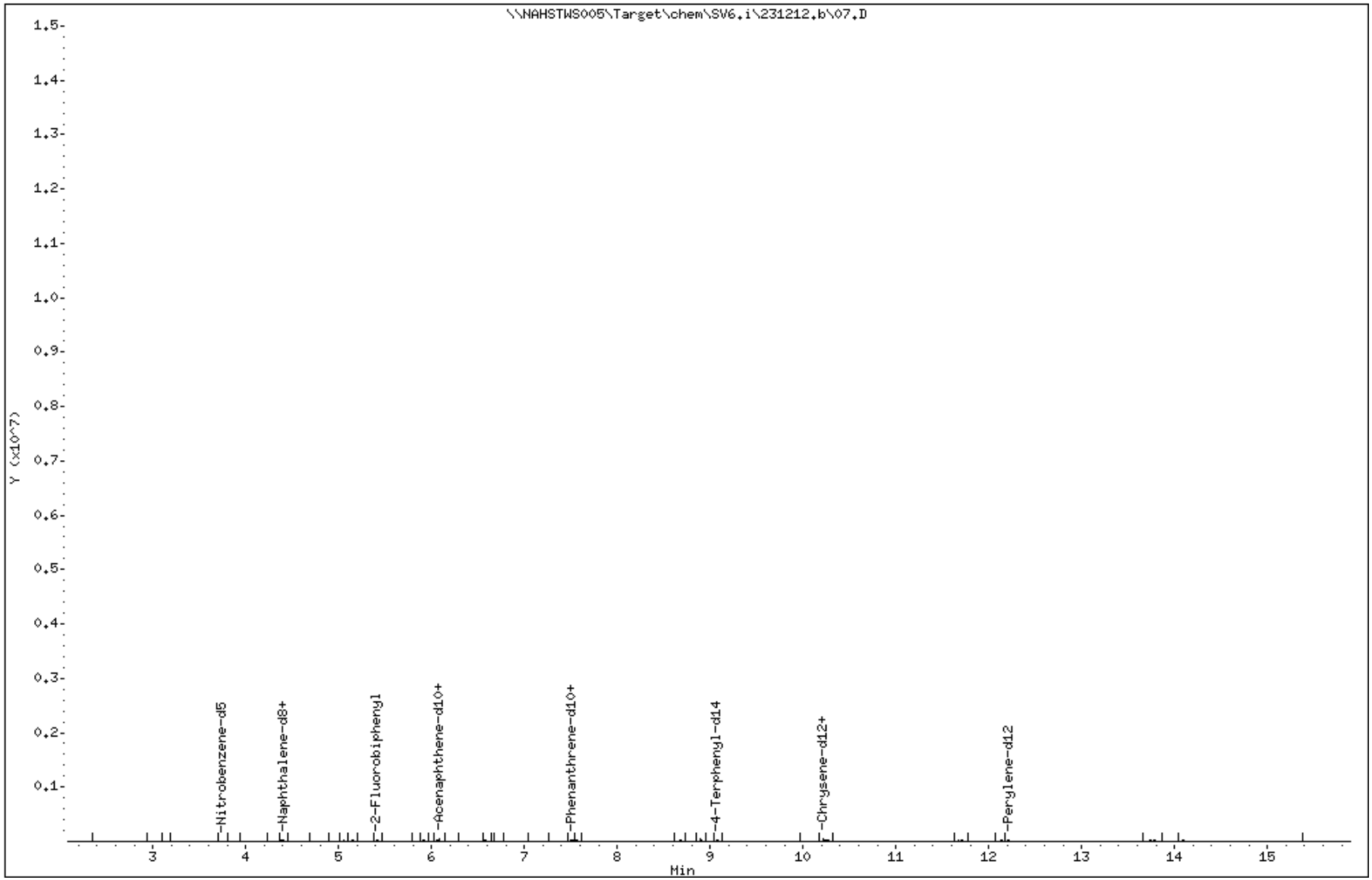
Sample Info: PAHSIM-0.10

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



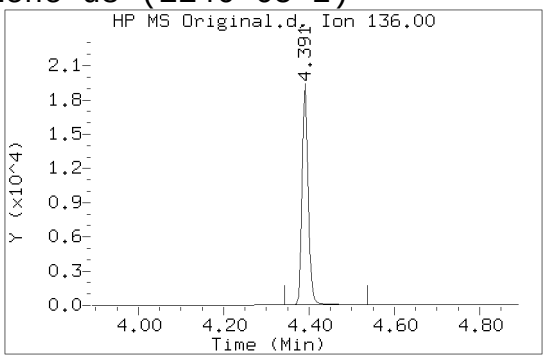
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Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

Naphthalene-d8 (1146-65-2)

Reason Code:

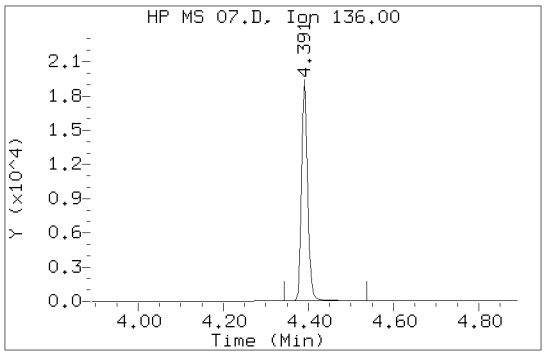
BEFORE

MASS
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AREA
19512
HEIGHT
19368
18-Dec-2023
10:16
linh
pham



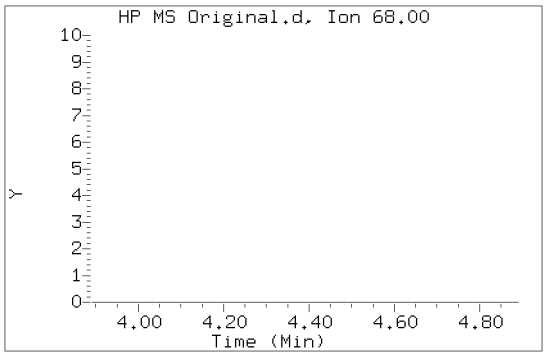
AFTER

MASS
136
AREA
19512
HEIGHT
19368
18-Dec-2023
10:16
linh
pham



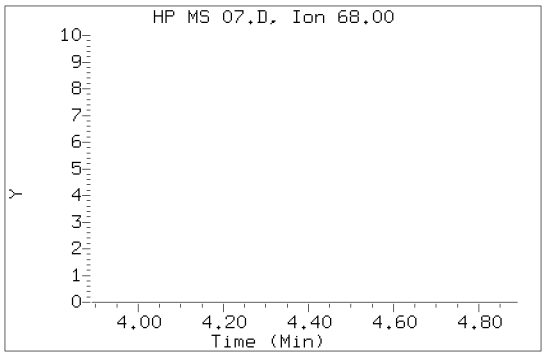
BEFORE

MASS
68
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
68
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham

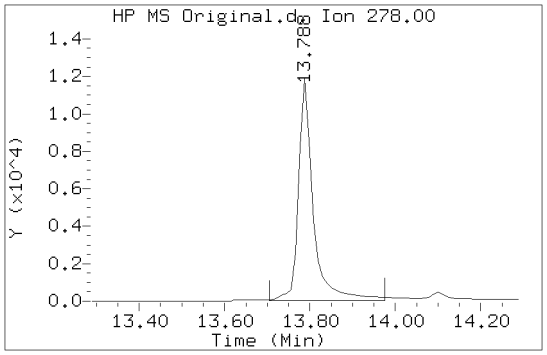


Dibenzo(a,h)anthracene (53-70-3)

Reason Code:

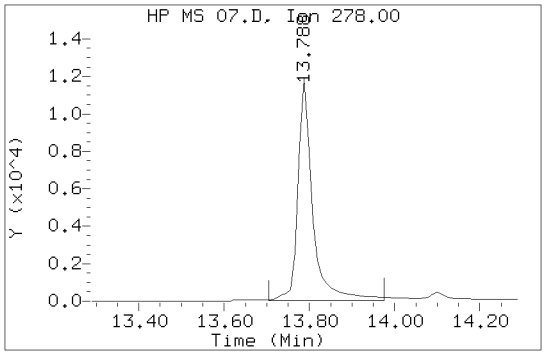
BEFORE

MASS
278
AREA
28282
HEIGHT
11824
18-Dec-2023
10:16
linh
pham



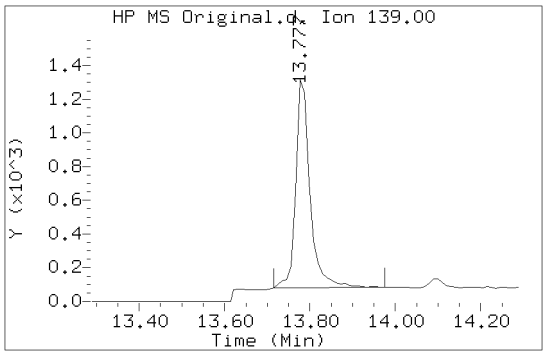
AFTER

MASS
278
AREA
28282
HEIGHT
11824
18-Dec-2023
10:16
linh
pham



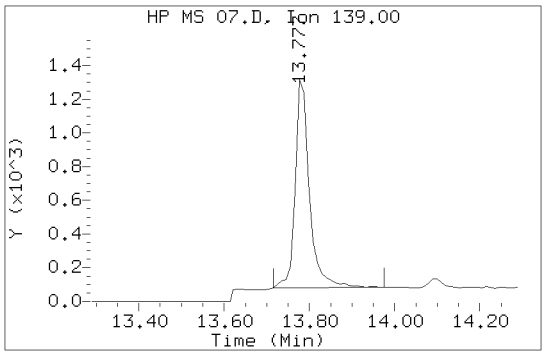
BEFORE

MASS
139
AREA
2840
HEIGHT
1234
18-Dec-2023
10:16
linh
pham



AFTER

MASS
139
AREA
2840
HEIGHT
1234
18-Dec-2023
10:16
linh
pham



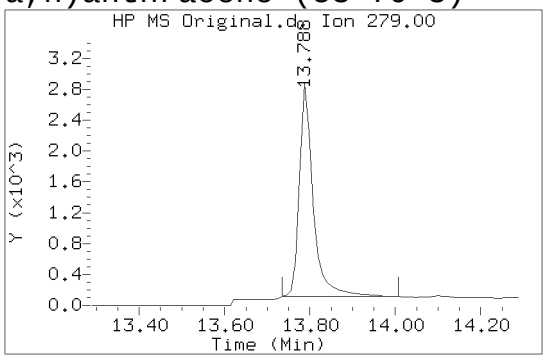
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Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

Dibenzo(a,h)anthracene (53-70-3)

Reason Code:

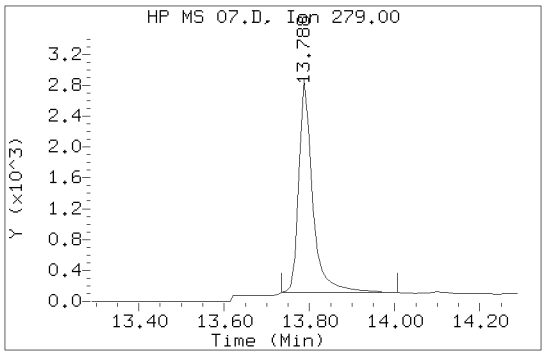
BEFORE

MASS
279
AREA
6189
HEIGHT
2758
18-Dec-2023
10:16
linh
pham



AFTER

MASS
279
AREA
6189
HEIGHT
2758
18-Dec-2023
10:16
linh
pham

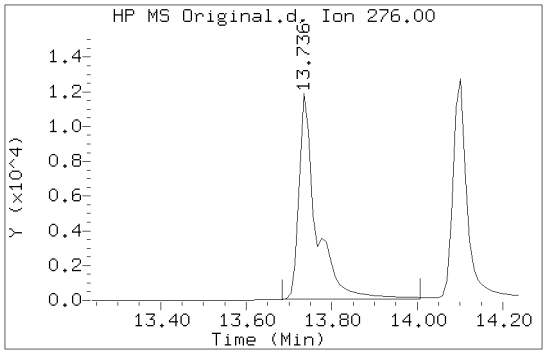


Indeno(1,2,3-cd)pyrene (193-39-5)

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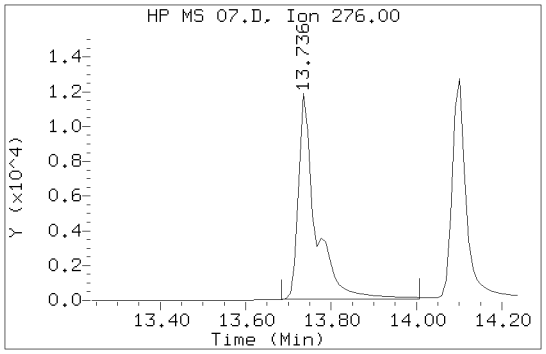
BEFORE

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276
AREA
33508
HEIGHT
11840
18-Dec-2023
10:16
linh
pham



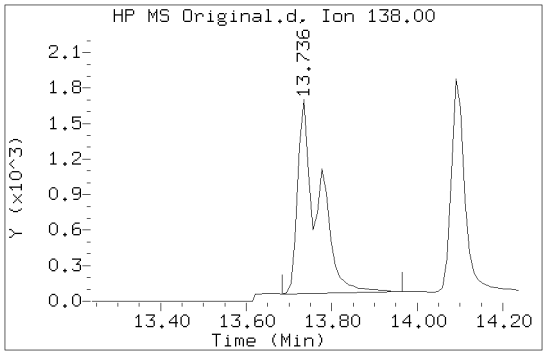
AFTER

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276
AREA
33508
HEIGHT
11840
18-Dec-2023
10:16
linh
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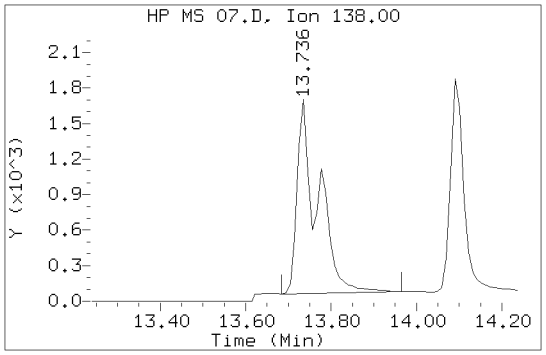
BEFORE

MASS
138
AREA
5471
HEIGHT
1640
18-Dec-2023
10:16
linh
pham



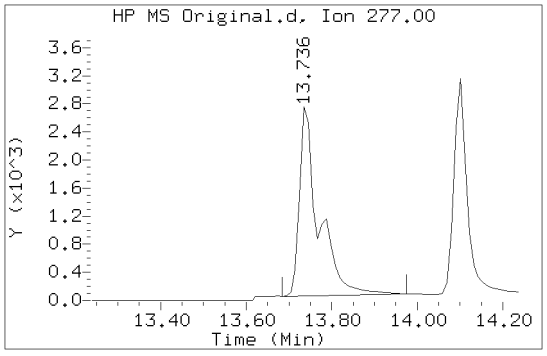
AFTER

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HEIGHT
1640
18-Dec-2023
10:16
linh
pham



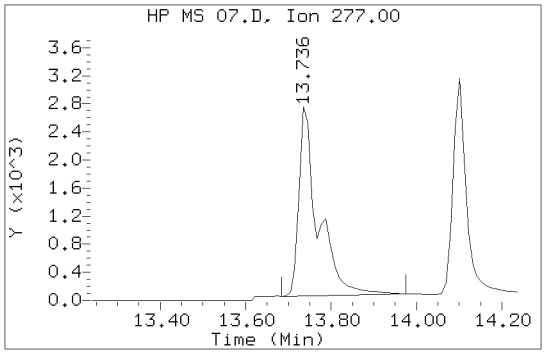
BEFORE

MASS
277
AREA
8388
HEIGHT
2697
18-Dec-2023
10:16
linh
pham



AFTER

MASS
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AREA
8388
HEIGHT
2697
18-Dec-2023
10:16
linh
pham



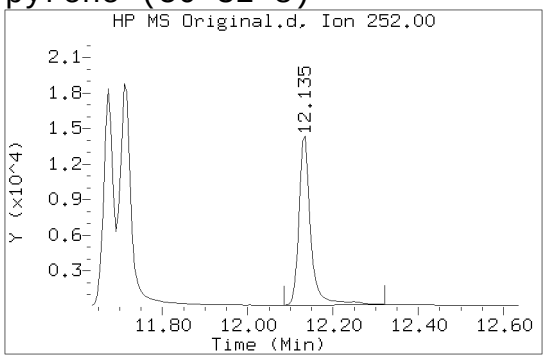
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Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

Benzo(a)pyrene (50-32-8)

Reason Code:

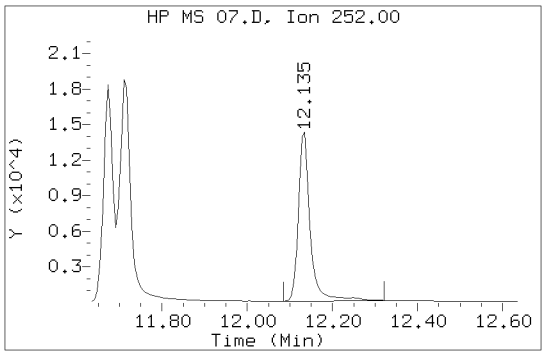
BEFORE

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AREA
27584
HEIGHT
14228
18-Dec-2023
10:16
linh
pham



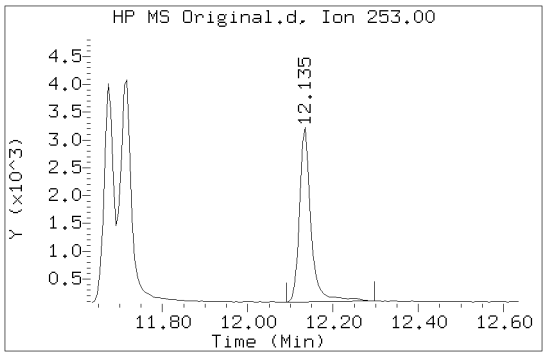
AFTER

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27584
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14228
18-Dec-2023
10:16
linh
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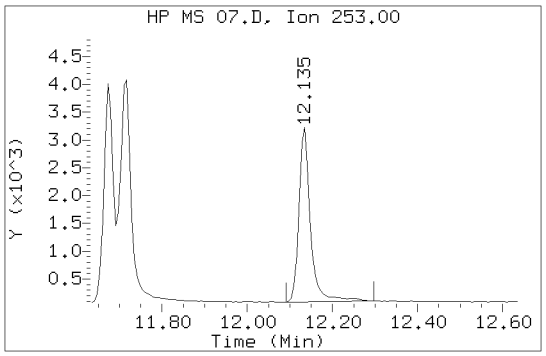
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AREA
5979
HEIGHT
3142
18-Dec-2023
10:16
linh
pham



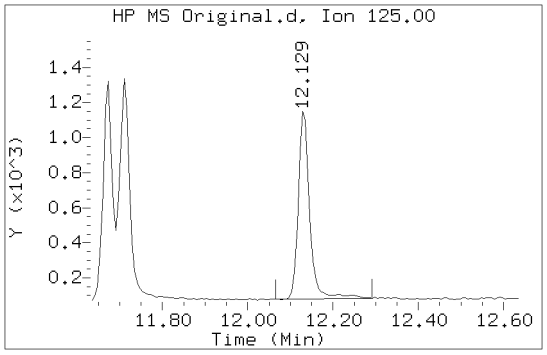
AFTER

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253
AREA
5979
HEIGHT
3142
18-Dec-2023
10:16
linh
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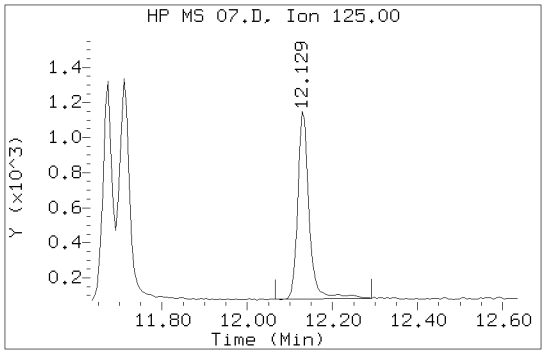
BEFORE

MASS
125
AREA
2024
HEIGHT
1072
18-Dec-2023
10:16
linh
pham



AFTER

MASS
125
AREA
2024
HEIGHT
1072
18-Dec-2023
10:16
linh
pham

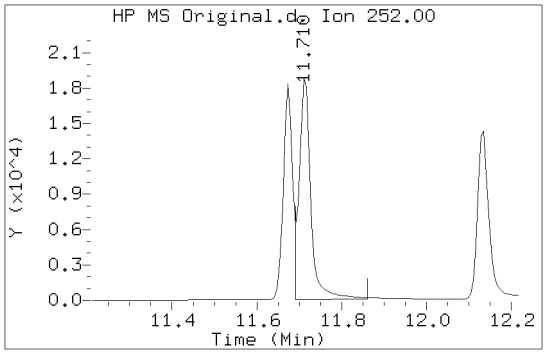


Benzo(k)fluoranthene (207-08-9)

Reason Code:

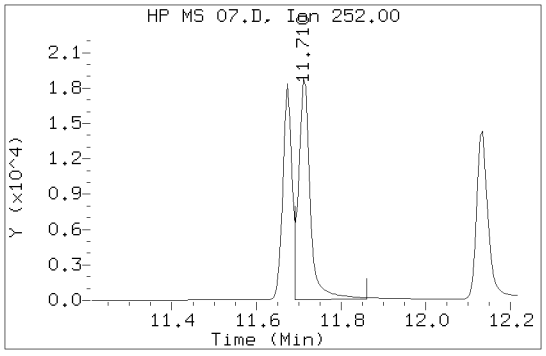
BEFORE

MASS
252
AREA
35938
HEIGHT
18711
18-Dec-2023
10:16
linh
pham



AFTER

MASS
252
AREA
35938
HEIGHT
18711
18-Dec-2023
10:16
linh
pham



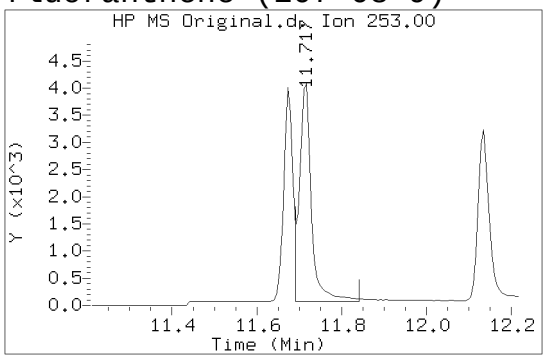
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Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

Benzo(k)fluoranthene (207-08-9)

Reason Code:

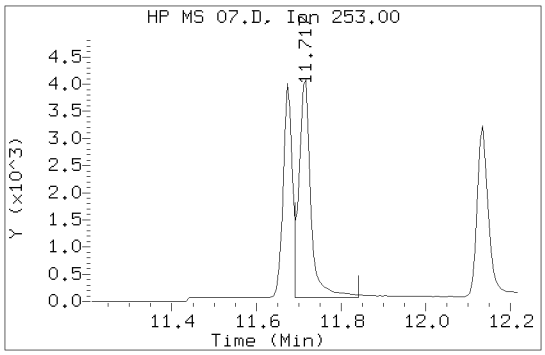
BEFORE

MASS
253
AREA
7883
HEIGHT
4006
18-Dec-2023
10:16
linh
pham



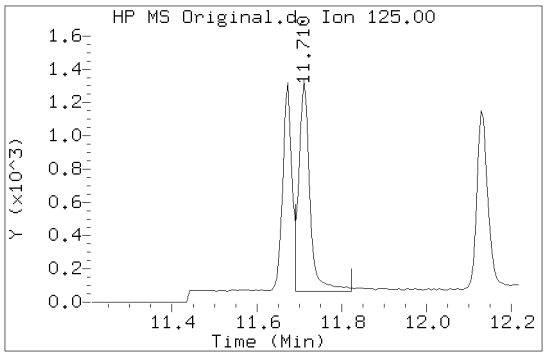
AFTER

MASS
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HEIGHT
4006
18-Dec-2023
10:16
linh
pham



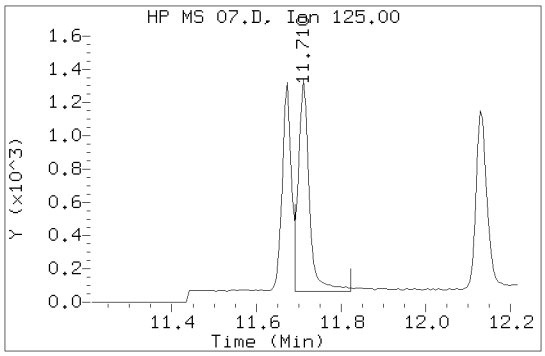
BEFORE

MASS
125
AREA
2290
HEIGHT
1271
18-Dec-2023
10:16
linh
pham



AFTER

MASS
125
AREA
2290
HEIGHT
1271
18-Dec-2023
10:16
linh
pham

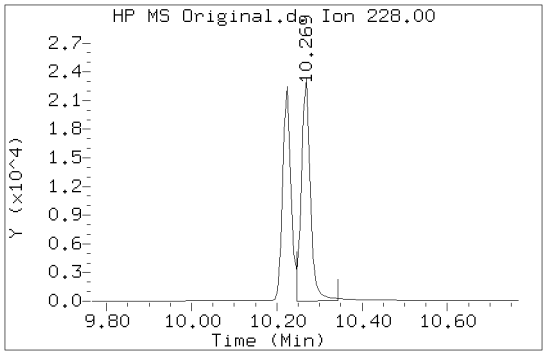


Chrysene (218-01-9)

Reason Code:

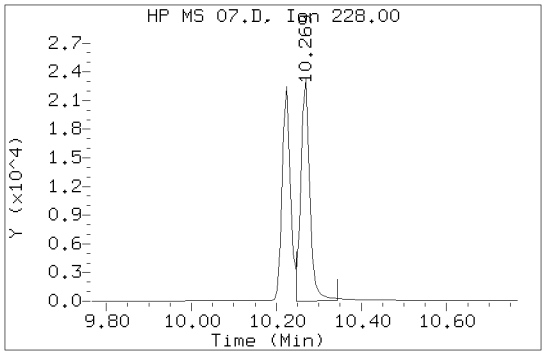
BEFORE

MASS
228
AREA
34289
HEIGHT
23251
18-Dec-2023
10:16
linh
pham



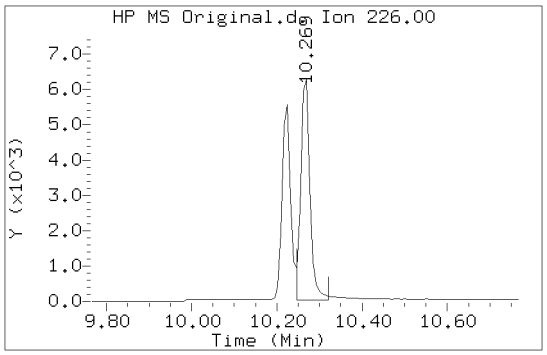
AFTER

MASS
228
AREA
34289
HEIGHT
23251
18-Dec-2023
10:16
linh
pham



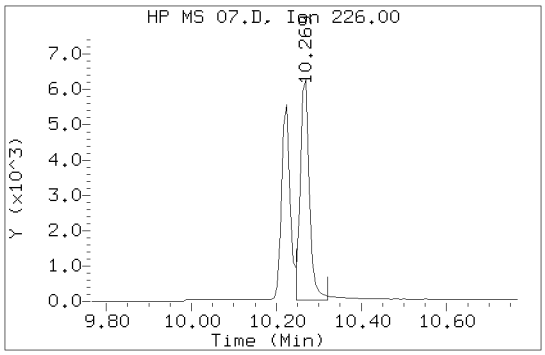
BEFORE

MASS
226
AREA
9345
HEIGHT
6231
18-Dec-2023
10:16
linh
pham



AFTER

MASS
226
AREA
9345
HEIGHT
6231
18-Dec-2023
10:16
linh
pham



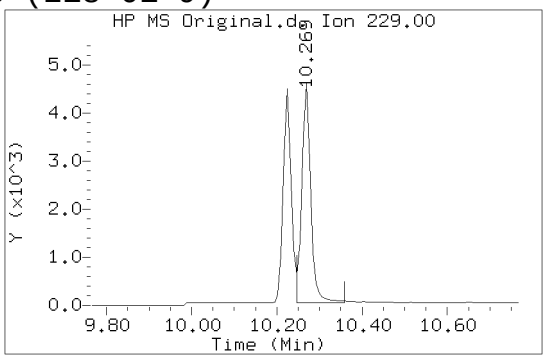
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Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

Chrysene (218-01-9)

Reason Code:

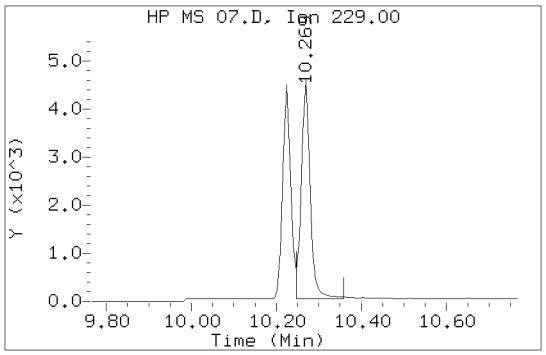
BEFORE

MASS
229
AREA
6617
HEIGHT
4549
18-Dec-2023
10:16
linh
pham



AFTER

MASS
229
AREA
6617
HEIGHT
4549
18-Dec-2023
10:16
linh
pham

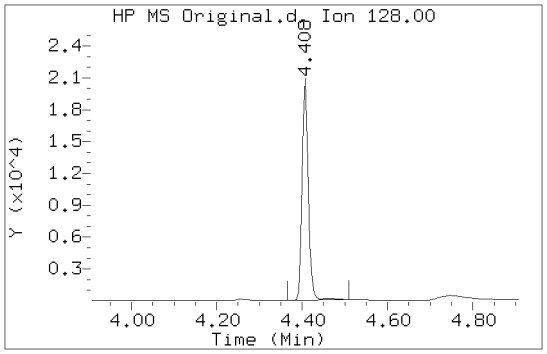


Naphthalene (91-20-3)

Reason Code:

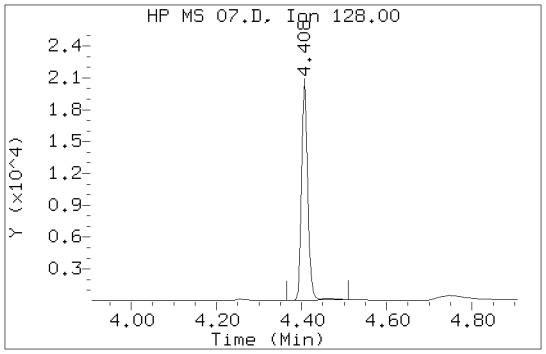
BEFORE

MASS
128
AREA
21296
HEIGHT
20843
18-Dec-2023
10:16
linh
pham



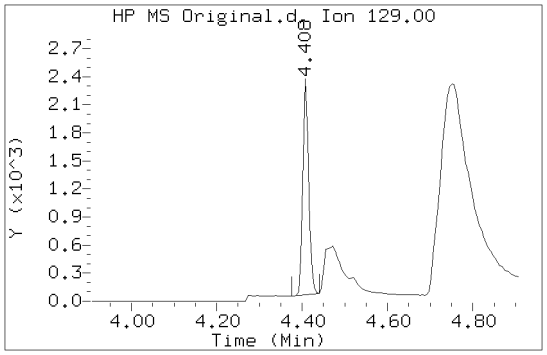
AFTER

MASS
128
AREA
21296
HEIGHT
20843
18-Dec-2023
10:16
linh
pham



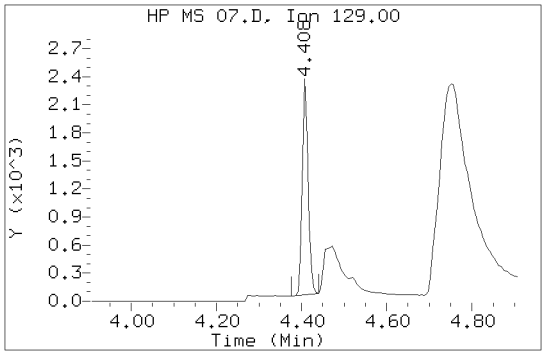
BEFORE

MASS
129
AREA
2240
HEIGHT
2307
18-Dec-2023
10:16
linh
pham



AFTER

MASS
129
AREA
2240
HEIGHT
2307
18-Dec-2023
10:16
linh
pham

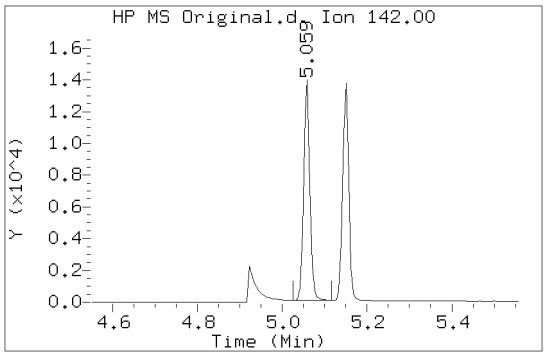


2-Methylnaphthalene (91-57-6)

Reason Code:

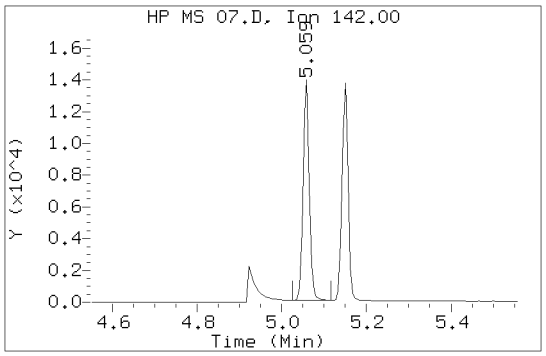
BEFORE

MASS
142
AREA
14233
HEIGHT
13888
18-Dec-2023
10:16
linh
pham



AFTER

MASS
142
AREA
14233
HEIGHT
13888
18-Dec-2023
10:16
linh
pham



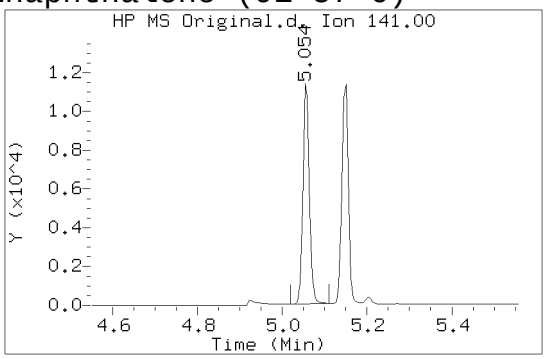
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\07.D
Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

2-Methylnaphthalene (91-57-6)

Reason Code:

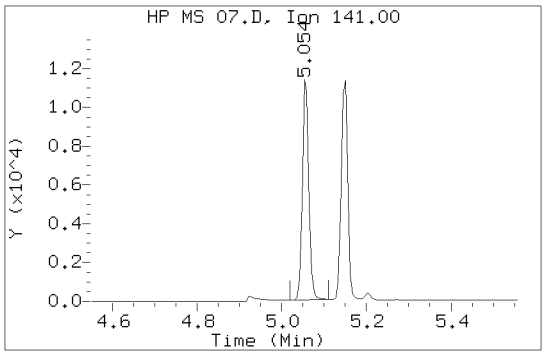
BEFORE

MASS
141
AREA
12052
HEIGHT
11352
18-Dec-2023
10:16
linh
pham



AFTER

MASS
141
AREA
12052
HEIGHT
11352
18-Dec-2023
10:16
linh
pham

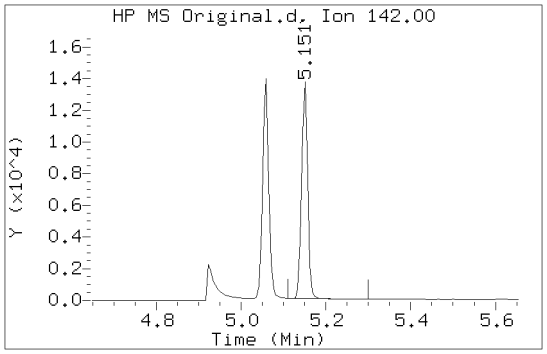


1-Methylnaphthalene (90-12-0)

Reason Code:

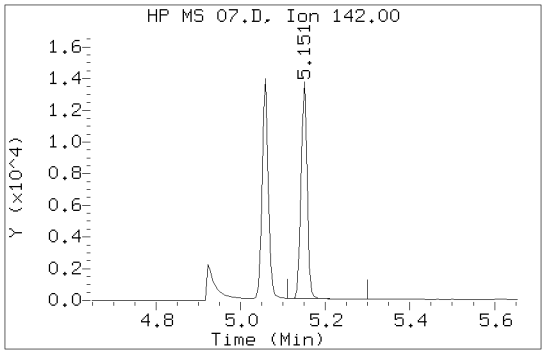
BEFORE

MASS
142
AREA
13318
HEIGHT
13673
18-Dec-2023
10:16
linh
pham



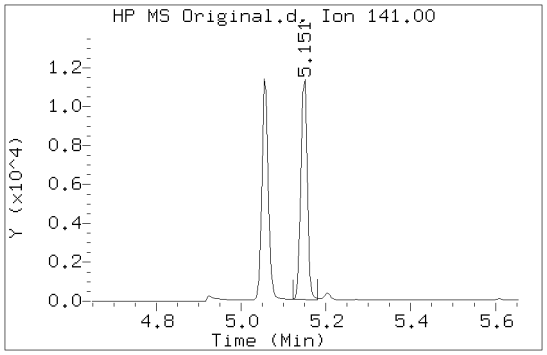
AFTER

MASS
142
AREA
13318
HEIGHT
13673
18-Dec-2023
10:16
linh
pham



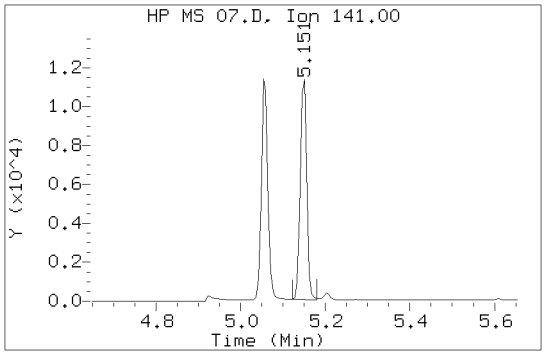
BEFORE

MASS
141
AREA
11830
HEIGHT
11336
18-Dec-2023
10:16
linh
pham



AFTER

MASS
141
AREA
11830
HEIGHT
11336
18-Dec-2023
10:16
linh
pham

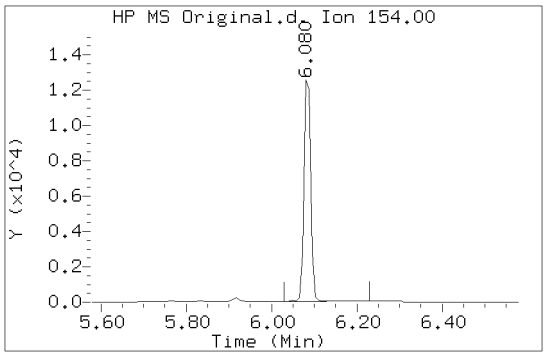


Acenaphthene (83-32-9)

Reason Code:

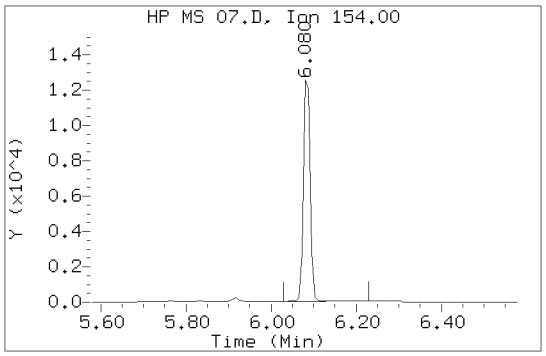
BEFORE

MASS
154
AREA
13603
HEIGHT
12524
18-Dec-2023
10:16
linh
pham



AFTER

MASS
154
AREA
13603
HEIGHT
12524
18-Dec-2023
10:16
linh
pham



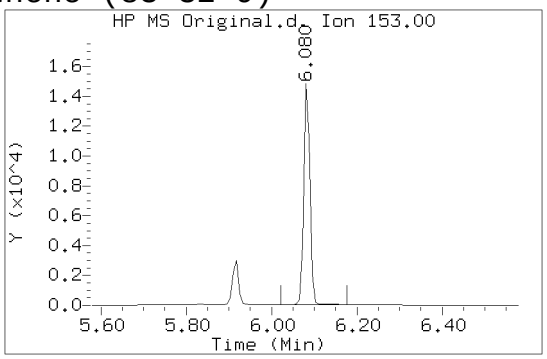
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\07.D
Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

Acenaphthene (83-32-9)

Reason Code:

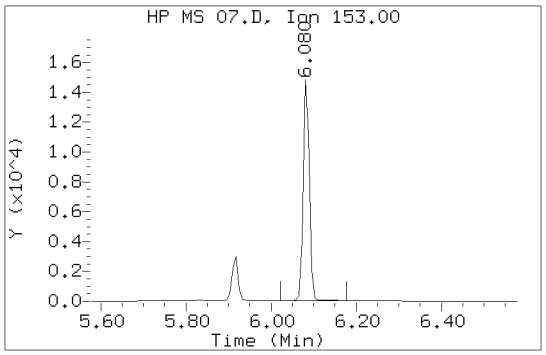
BEFORE

MASS
153
AREA
14490
HEIGHT
14790
18-Dec-2023
10:16
linh
pham



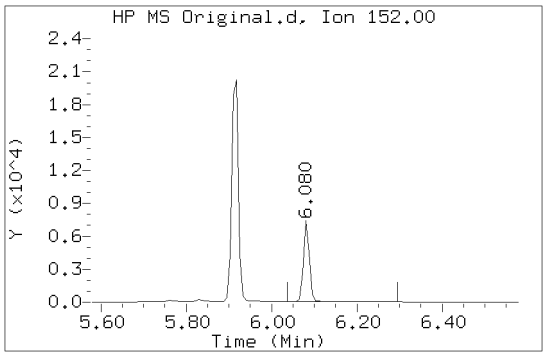
AFTER

MASS
153
AREA
14490
HEIGHT
14790
18-Dec-2023
10:16
linh
pham



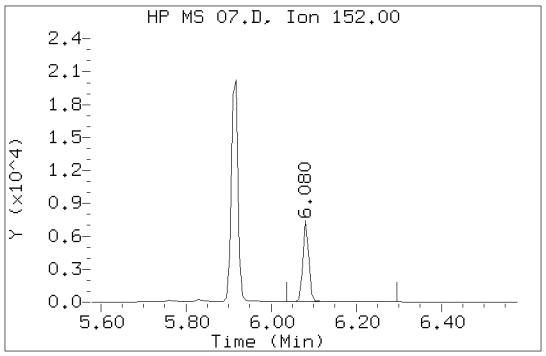
BEFORE

MASS
152
AREA
6880
HEIGHT
7355
18-Dec-2023
10:16
linh
pham



AFTER

MASS
152
AREA
6880
HEIGHT
7355
18-Dec-2023
10:16
linh
pham

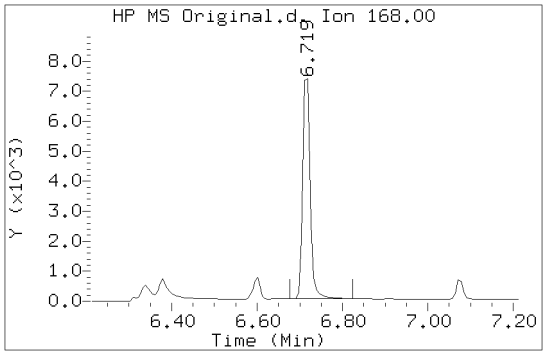


Dibenzofuran (132-64-9)

Reason Code:

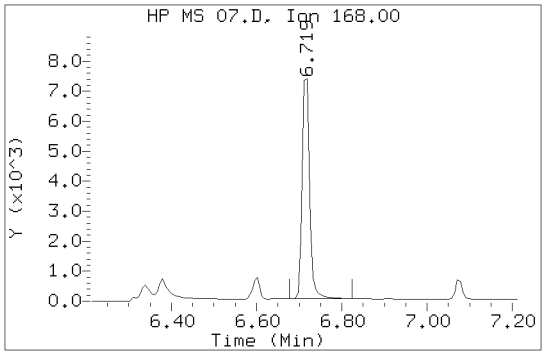
BEFORE

MASS
168
AREA
8792
HEIGHT
7327
18-Dec-2023
10:16
linh
pham



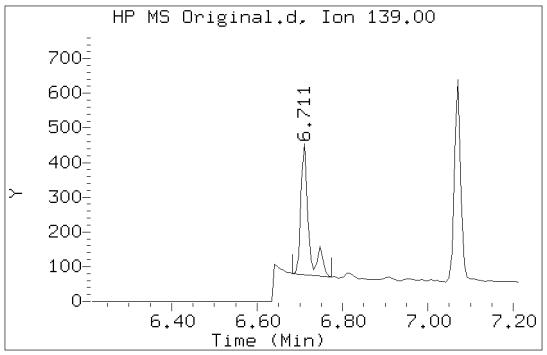
AFTER

MASS
168
AREA
8792
HEIGHT
7327
18-Dec-2023
10:16
linh
pham



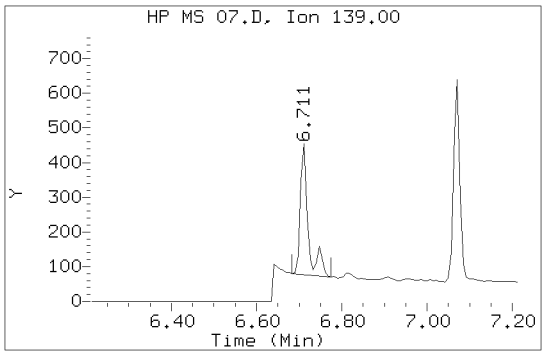
BEFORE

MASS
139
AREA
473
HEIGHT
378
18-Dec-2023
10:16
linh
pham



AFTER

MASS
139
AREA
473
HEIGHT
378
18-Dec-2023
10:16
linh
pham



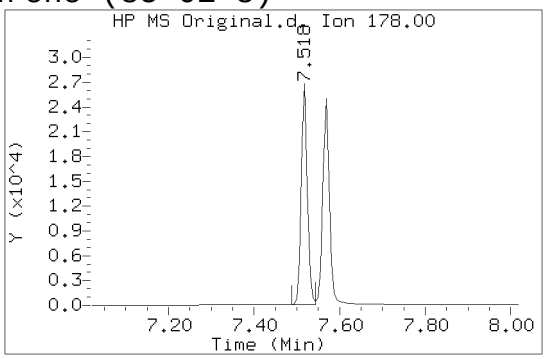
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Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

Phenanthrene (85-01-8)

Reason Code:

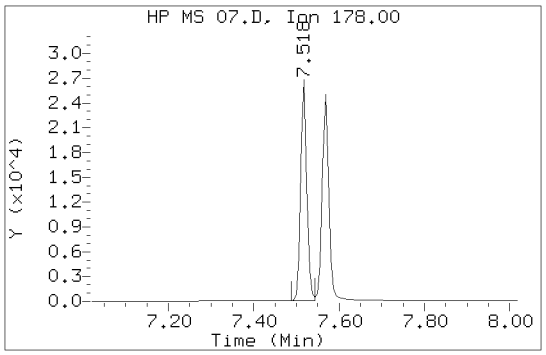
BEFORE

MASS
178
AREA
26664
HEIGHT
26751
18-Dec-2023
10:16
linh
pham



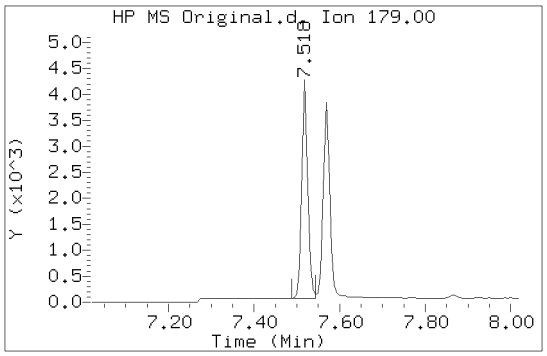
AFTER

MASS
178
AREA
26664
HEIGHT
26751
18-Dec-2023
10:16
linh
pham



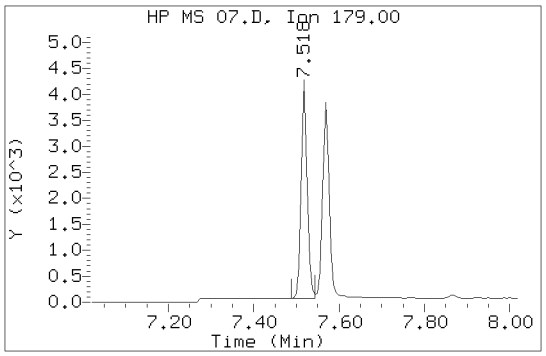
BEFORE

MASS
179
AREA
4073
HEIGHT
4203
18-Dec-2023
10:16
linh
pham



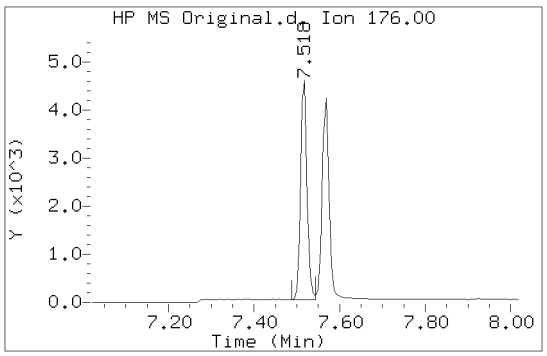
AFTER

MASS
179
AREA
4073
HEIGHT
4203
18-Dec-2023
10:16
linh
pham



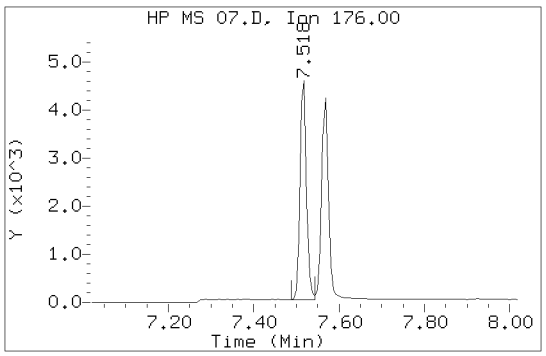
BEFORE

MASS
176
AREA
4840
HEIGHT
4560
18-Dec-2023
10:16
linh
pham



AFTER

MASS
176
AREA
4840
HEIGHT
4560
18-Dec-2023
10:16
linh
pham

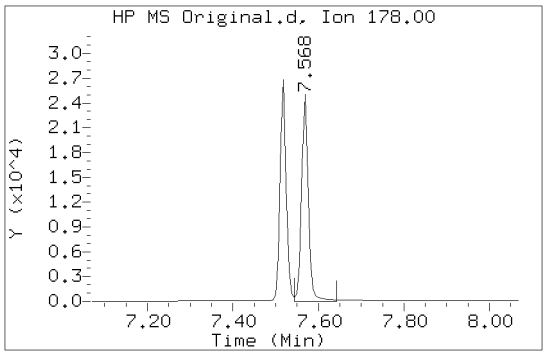


Anthracene (120-12-7)

Reason Code:

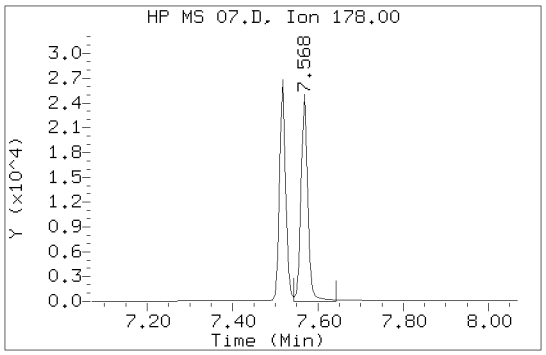
BEFORE

MASS
178
AREA
26722
HEIGHT
24990
18-Dec-2023
10:16
linh
pham



AFTER

MASS
178
AREA
26722
HEIGHT
24990
18-Dec-2023
10:16
linh
pham



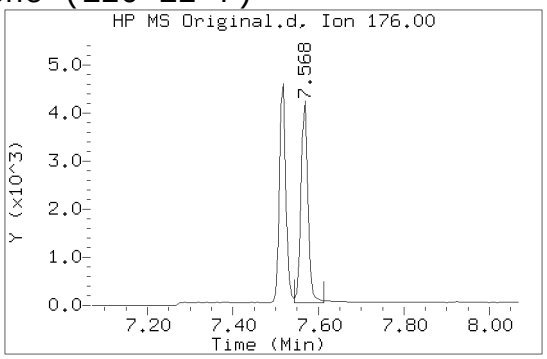
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Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

Anthracene (120-12-7)

Reason Code:

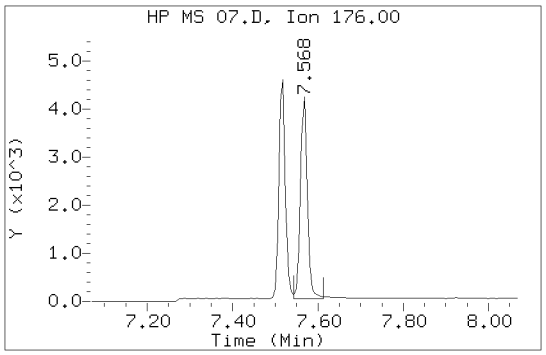
BEFORE

MASS
176
AREA
4599
HEIGHT
4199
18-Dec-2023
10:16
linh
pham



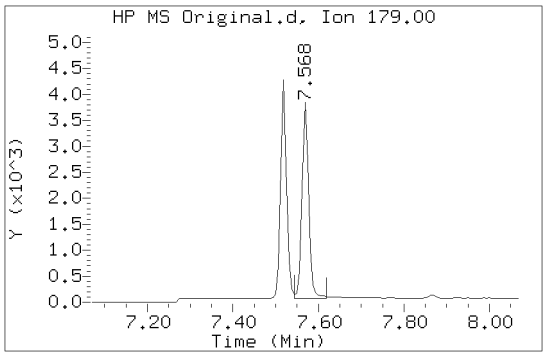
AFTER

MASS
176
AREA
4599
HEIGHT
4199
18-Dec-2023
10:16
linh
pham



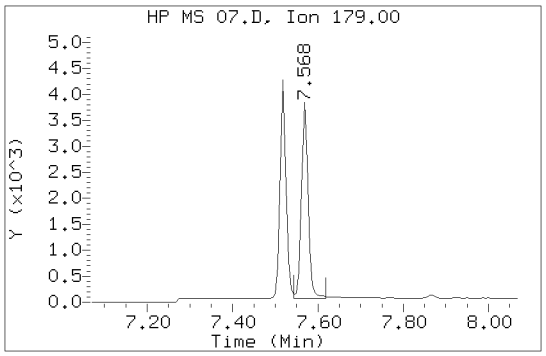
BEFORE

MASS
179
AREA
4004
HEIGHT
3773
18-Dec-2023
10:16
linh
pham



AFTER

MASS
179
AREA
4004
HEIGHT
3773
18-Dec-2023
10:16
linh
pham

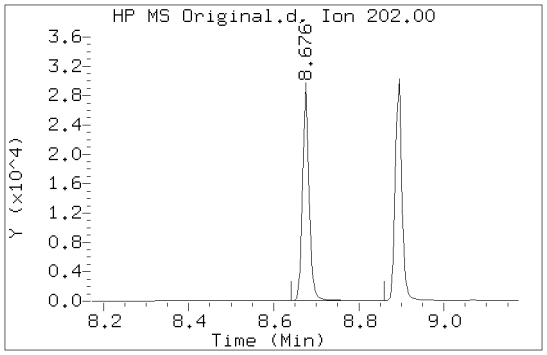


Fluoranthene (206-44-0)

Reason Code:

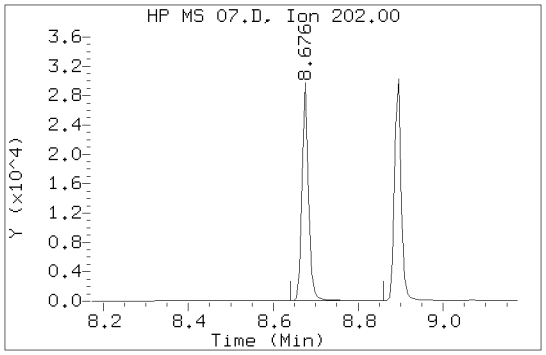
BEFORE

MASS
202
AREA
31373
HEIGHT
29653
18-Dec-2023
10:16
linh
pham



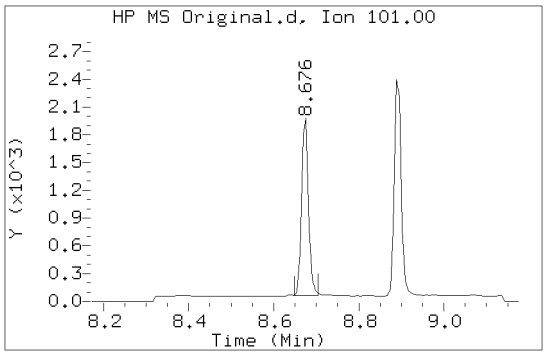
AFTER

MASS
202
AREA
31373
HEIGHT
29653
18-Dec-2023
10:16
linh
pham



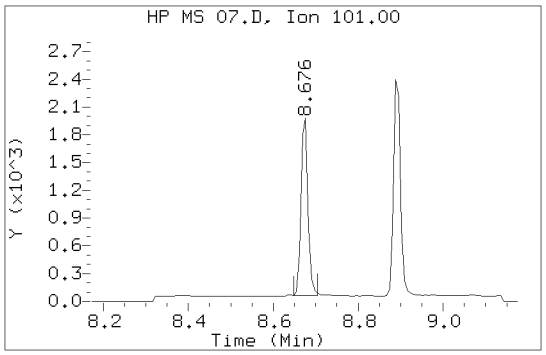
BEFORE

MASS
101
AREA
2172
HEIGHT
1917
18-Dec-2023
10:16
linh
pham



AFTER

MASS
101
AREA
2172
HEIGHT
1917
18-Dec-2023
10:16
linh
pham



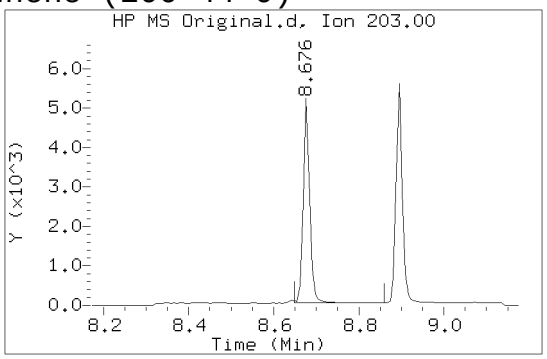
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\07.D
Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

Fluoranthene (206-44-0)

Reason Code:

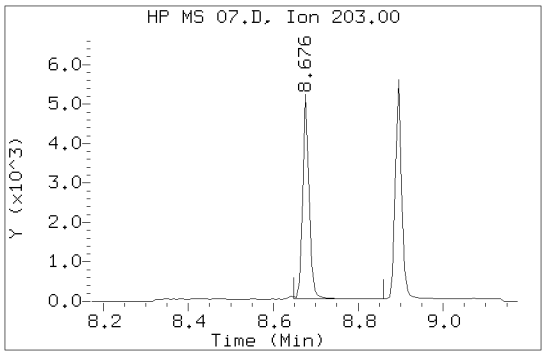
BEFORE

MASS
203
AREA
5447
HEIGHT
5185
18-Dec-2023
10:16
linh
pham



AFTER

MASS
203
AREA
5447
HEIGHT
5185
18-Dec-2023
10:16
linh
pham

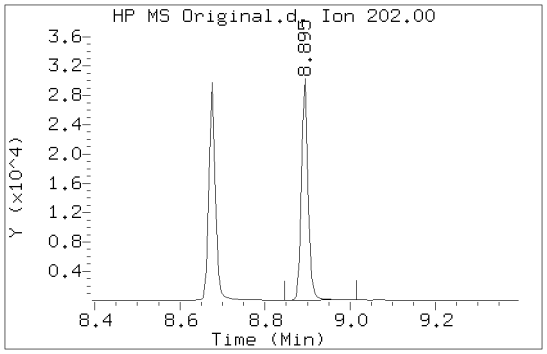


Pyrene (129-00-0)

Reason Code:

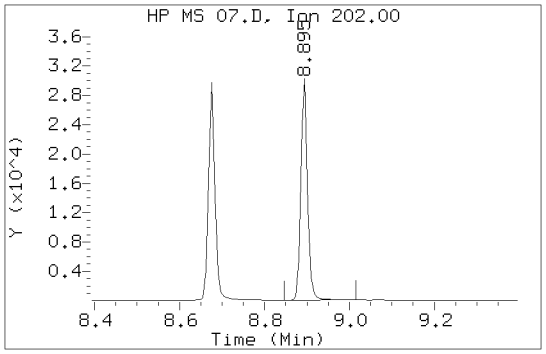
BEFORE

MASS
202
AREA
33015
HEIGHT
30195
18-Dec-2023
10:16
linh
pham



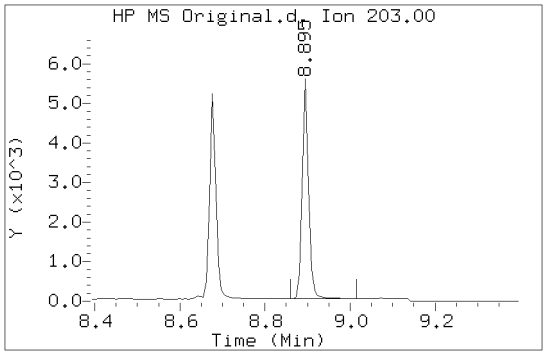
AFTER

MASS
202
AREA
33015
HEIGHT
30195
18-Dec-2023
10:16
linh
pham



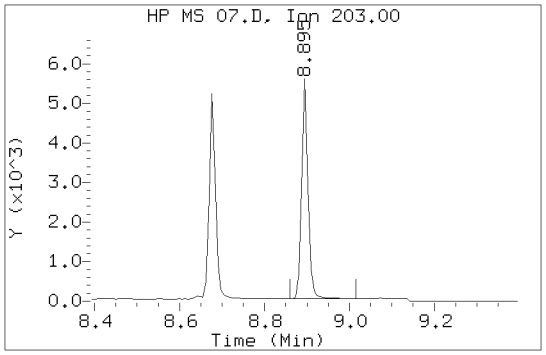
BEFORE

MASS
203
AREA
5785
HEIGHT
5558
18-Dec-2023
10:16
linh
pham



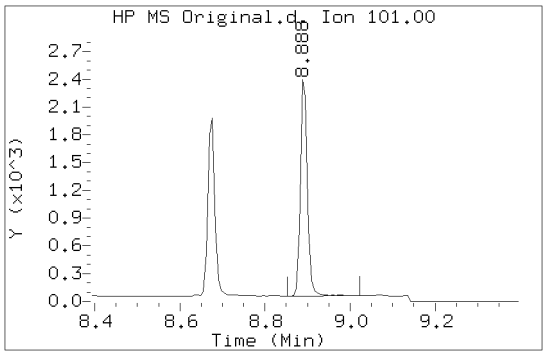
AFTER

MASS
203
AREA
5785
HEIGHT
5558
18-Dec-2023
10:16
linh
pham



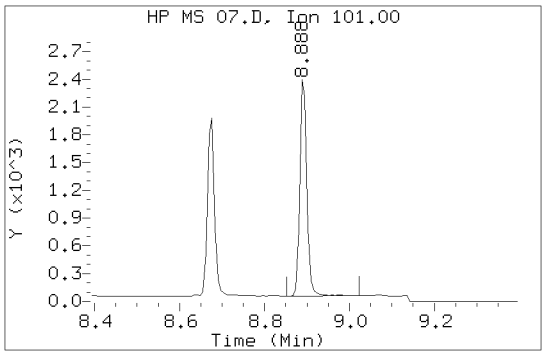
BEFORE

MASS
101
AREA
2688
HEIGHT
2337
18-Dec-2023
10:16
linh
pham



AFTER

MASS
101
AREA
2688
HEIGHT
2337
18-Dec-2023
10:16
linh
pham



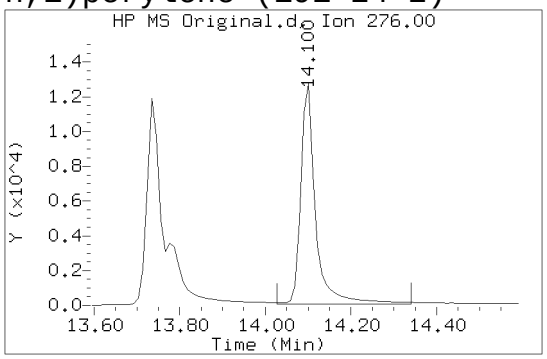
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\07.D
Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

Benzo(g,h,i)perylene (191-24-2)

Reason Code:

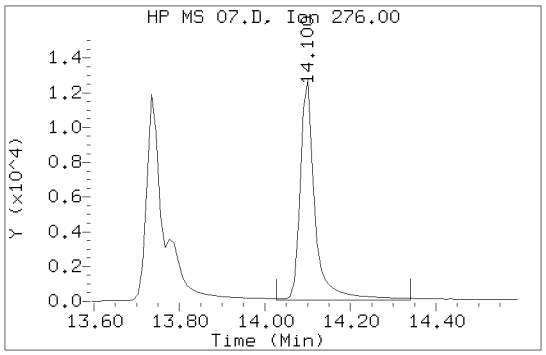
BEFORE

MASS
276
AREA
30097
HEIGHT
12666
18-Dec-2023
10:16
linh
pham



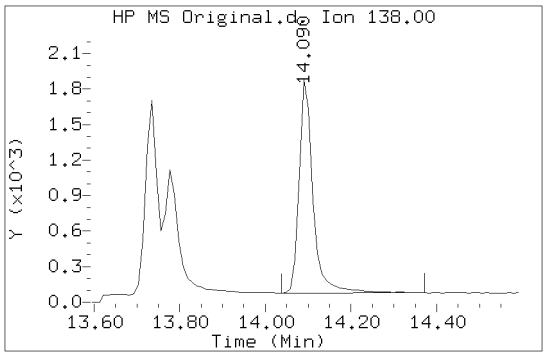
AFTER

MASS
276
AREA
30097
HEIGHT
12666
18-Dec-2023
10:16
linh
pham



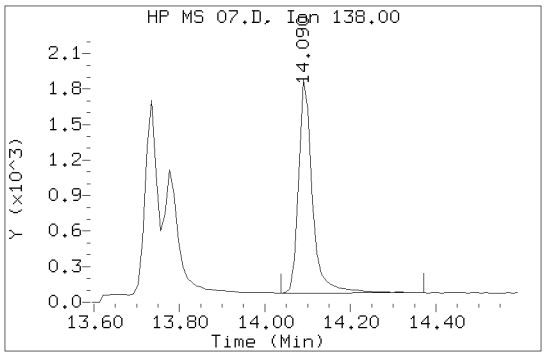
BEFORE

MASS
138
AREA
4031
HEIGHT
1800
18-Dec-2023
10:16
linh
pham



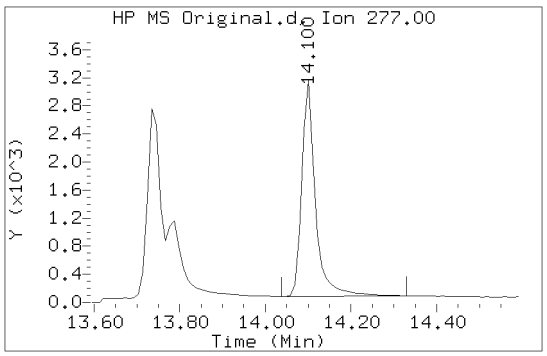
AFTER

MASS
138
AREA
4031
HEIGHT
1800
18-Dec-2023
10:16
linh
pham



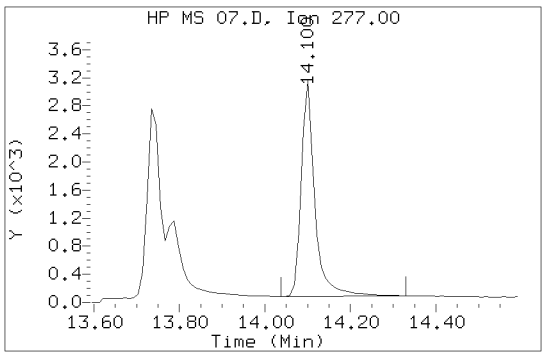
BEFORE

MASS
277
AREA
6760
HEIGHT
3073
18-Dec-2023
10:16
linh
pham



AFTER

MASS
277
AREA
6760
HEIGHT
3073
18-Dec-2023
10:16
linh
pham

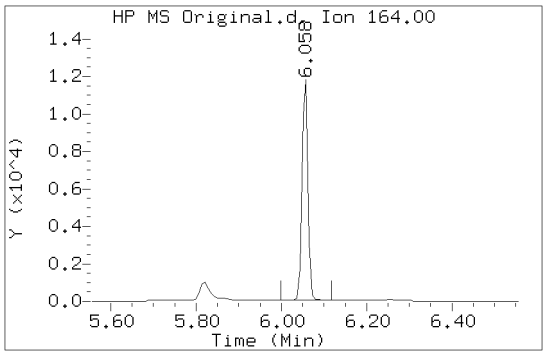


Acenaphthene-d10 (15067-26-2)

Reason Code:

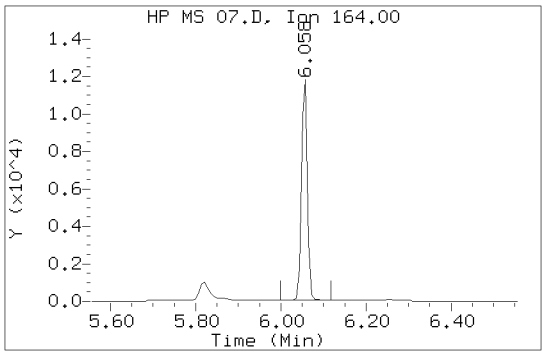
BEFORE

MASS
164
AREA
11904
HEIGHT
11762
18-Dec-2023
10:16
linh
pham



AFTER

MASS
164
AREA
11904
HEIGHT
11762
18-Dec-2023
10:16
linh
pham



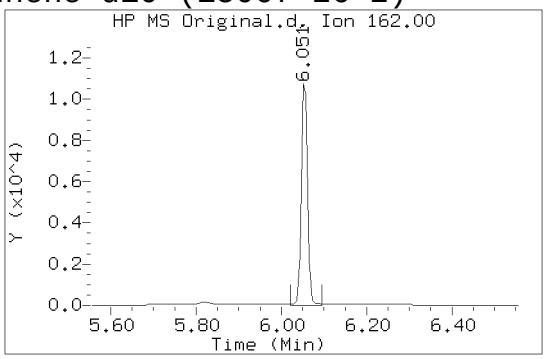
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\07.D
Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

Acenaphthene-d10 (15067-26-2)

Reason Code:

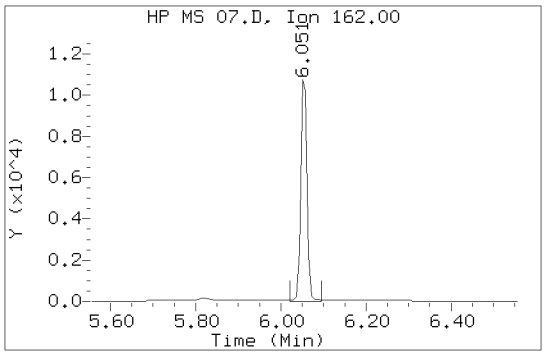
BEFORE

MASS
162
AREA
11741
HEIGHT
10753
18-Dec-2023
10:16
linh
pham



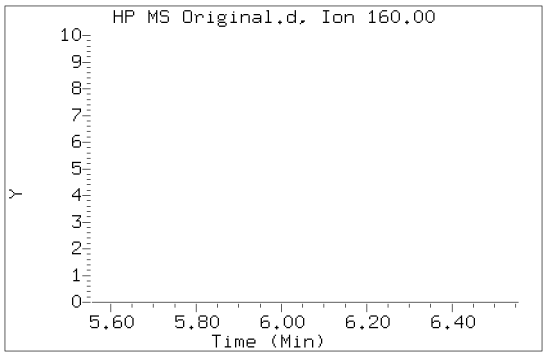
AFTER

MASS
162
AREA
11741
HEIGHT
10753
18-Dec-2023
10:16
linh
pham



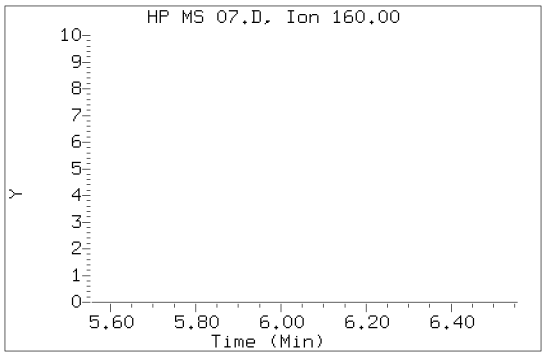
BEFORE

MASS
160
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
160
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham

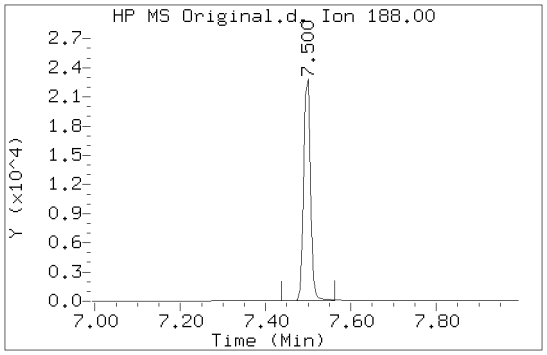


Phenanthrene-d10 (1517-22-2)

Reason Code:

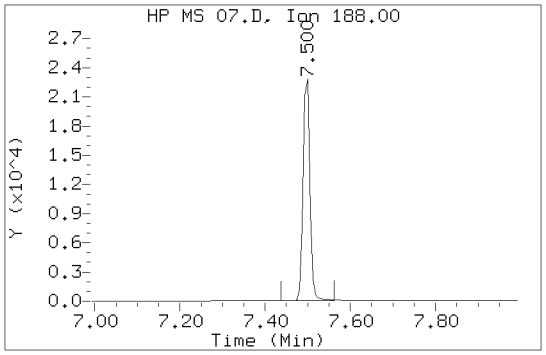
BEFORE

MASS
188
AREA
24679
HEIGHT
22800
18-Dec-2023
10:16
linh
pham



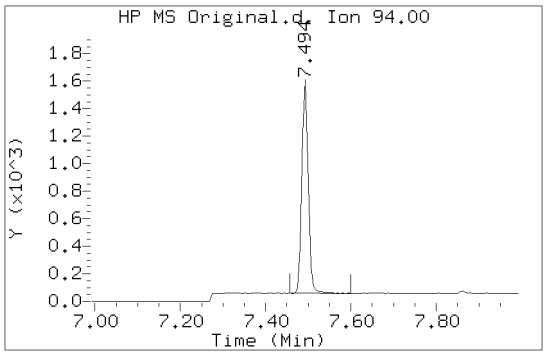
AFTER

MASS
188
AREA
24679
HEIGHT
22800
18-Dec-2023
10:16
linh
pham



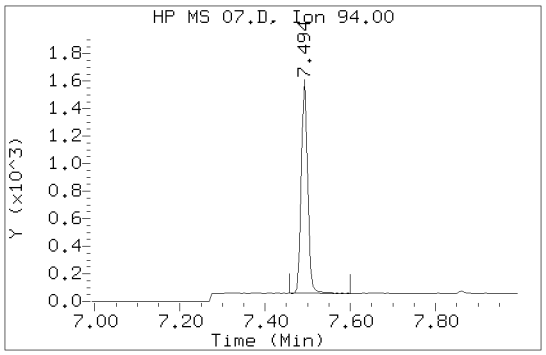
BEFORE

MASS
94
AREA
1578
HEIGHT
1551
18-Dec-2023
10:16
linh
pham



AFTER

MASS
94
AREA
1578
HEIGHT
1551
18-Dec-2023
10:16
linh
pham



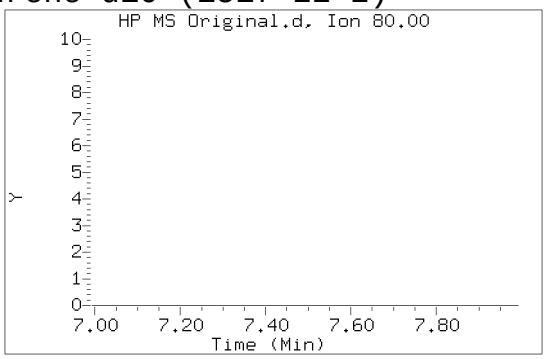
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\07.D
Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

Phenanthrene-d10 (1517-22-2)

Reason Code:

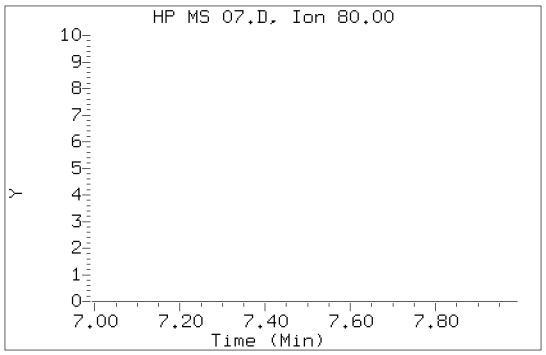
BEFORE

MASS
80
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
80
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham

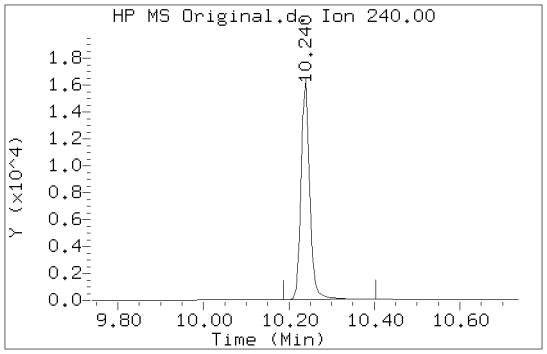


Chrysene-d12 (1719-03-5)

Reason Code:

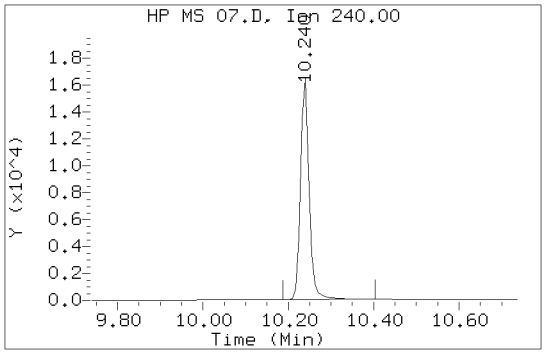
BEFORE

MASS
240
AREA
22845
HEIGHT
16421
18-Dec-2023
10:16
linh
pham



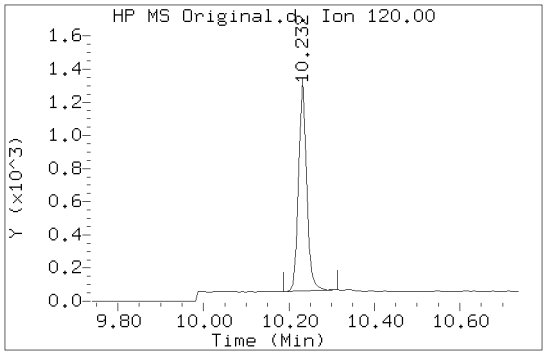
AFTER

MASS
240
AREA
22845
HEIGHT
16421
18-Dec-2023
10:16
linh
pham



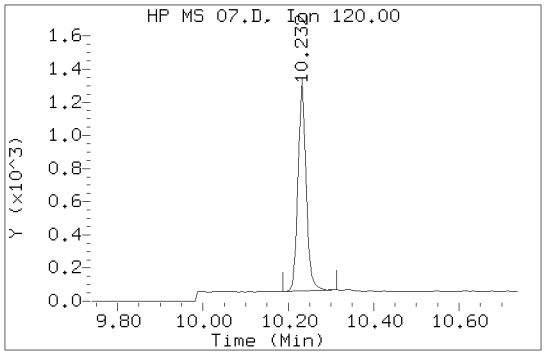
BEFORE

MASS
120
AREA
1643
HEIGHT
1278
18-Dec-2023
10:16
linh
pham



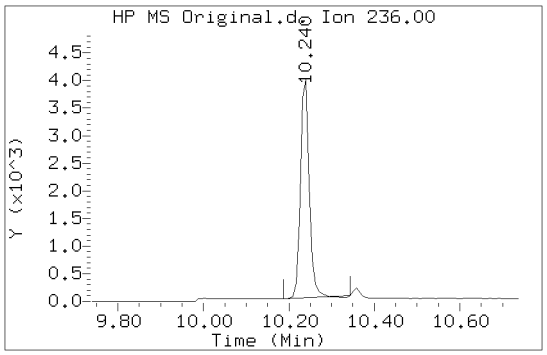
AFTER

MASS
120
AREA
1643
HEIGHT
1278
18-Dec-2023
10:16
linh
pham



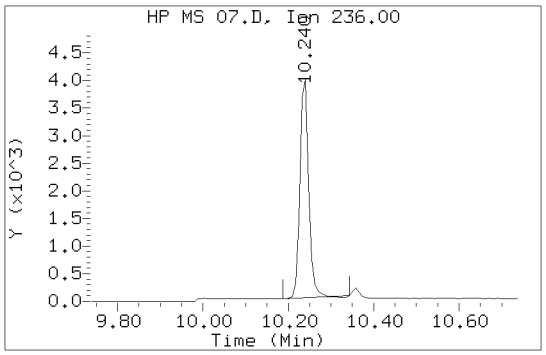
BEFORE

MASS
236
AREA
5496
HEIGHT
3946
18-Dec-2023
10:16
linh
pham



AFTER

MASS
236
AREA
5496
HEIGHT
3946
18-Dec-2023
10:16
linh
pham



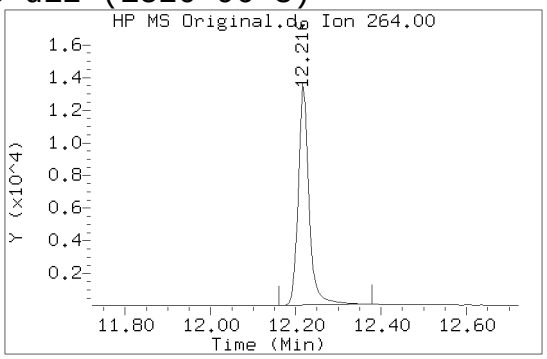
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\07.D
Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

Perylene-d12 (1520-96-3)

Reason Code:

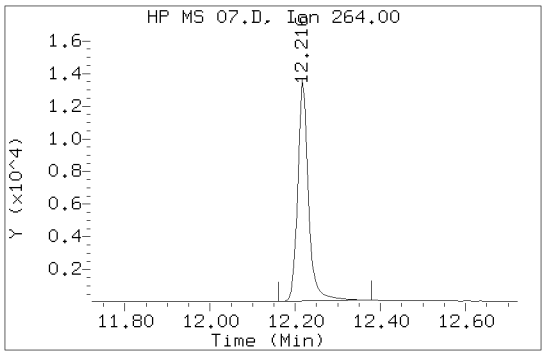
BEFORE

MASS
264
AREA
23969
HEIGHT
13558
18-Dec-2023
10:16
linh
pham



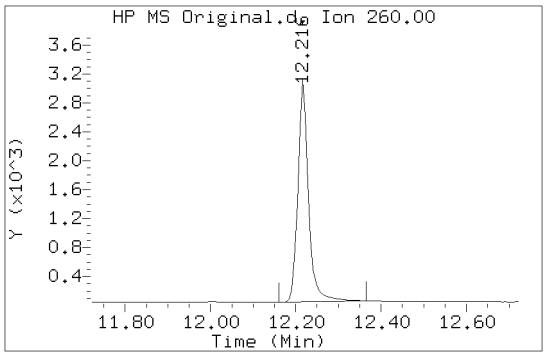
AFTER

MASS
264
AREA
23969
HEIGHT
13558
18-Dec-2023
10:16
linh
pham



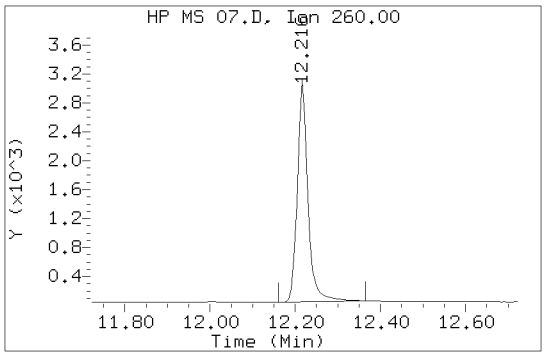
BEFORE

MASS
260
AREA
5333
HEIGHT
3065
18-Dec-2023
10:16
linh
pham



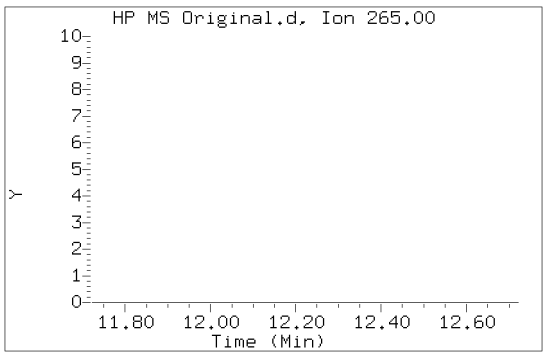
AFTER

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5333
HEIGHT
3065
18-Dec-2023
10:16
linh
pham



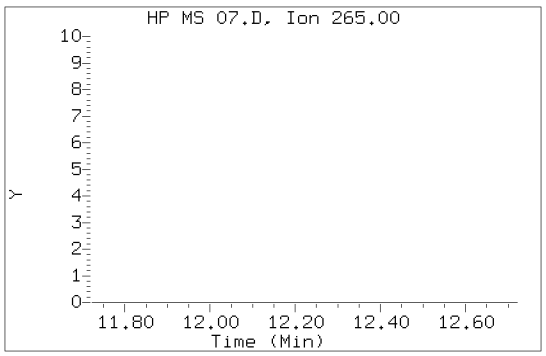
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HEIGHT
0
18-Dec-2023
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pham



AFTER

MASS
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AREA
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HEIGHT
0
18-Dec-2023
10:16
linh
pham

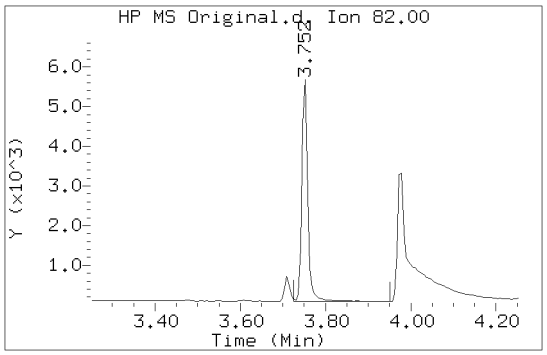


Nitrobenzene-d5 (4165-60-0)

Reason Code:

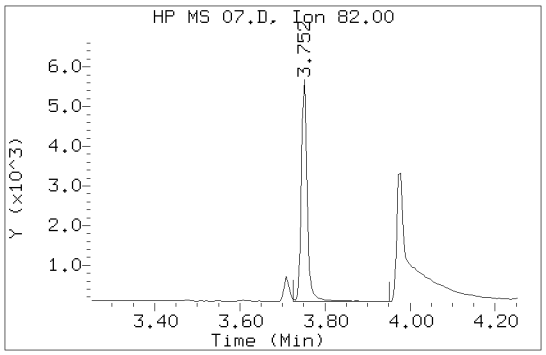
BEFORE

MASS
82
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HEIGHT
5585
18-Dec-2023
10:16
linh
pham



AFTER

MASS
82
AREA
5270
HEIGHT
5585
18-Dec-2023
10:16
linh
pham



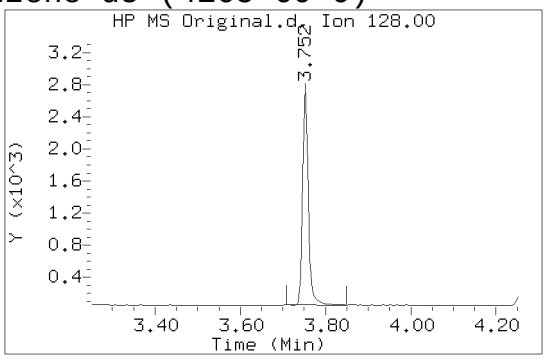
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Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

Nitrobenzene-d5 (4165-60-0)

Reason Code:

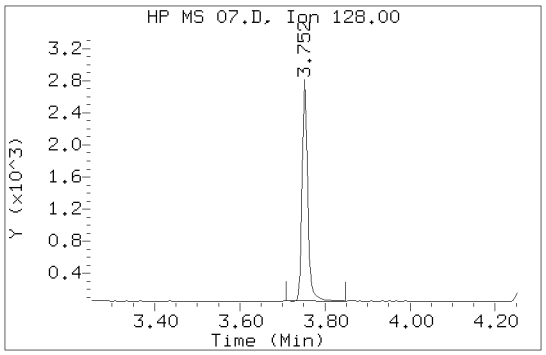
BEFORE

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AREA
2446
HEIGHT
2758
18-Dec-2023
10:16
linh
pham



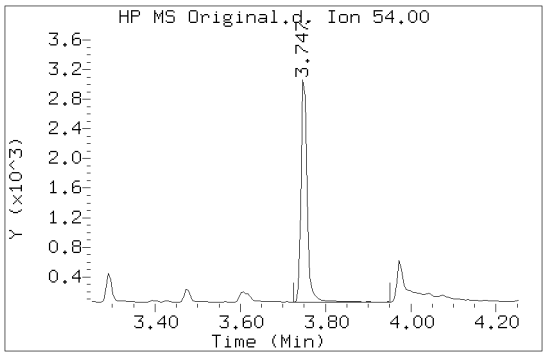
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MASS
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AREA
2446
HEIGHT
2758
18-Dec-2023
10:16
linh
pham



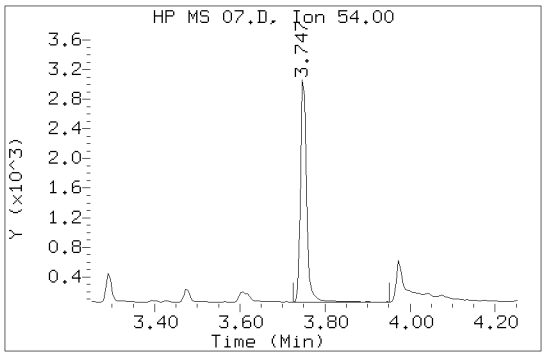
BEFORE

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HEIGHT
3000
18-Dec-2023
10:16
linh
pham



AFTER

MASS
54
AREA
2977
HEIGHT
3000
18-Dec-2023
10:16
linh
pham

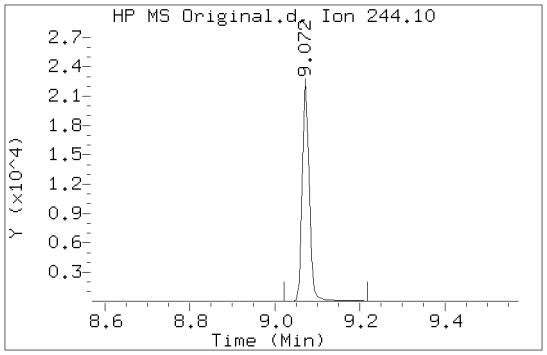


4-Terphenyl-d14 (1718-51-0)

Reason Code:

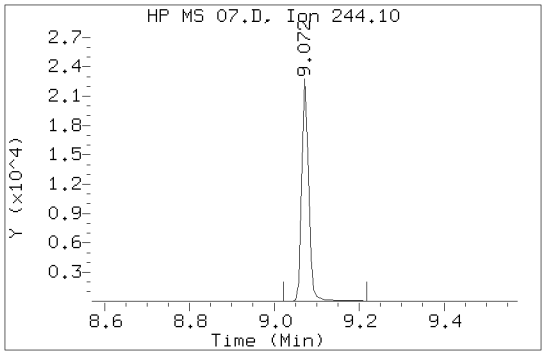
BEFORE

MASS
244.1
AREA
22359
HEIGHT
22705
18-Dec-2023
10:16
linh
pham



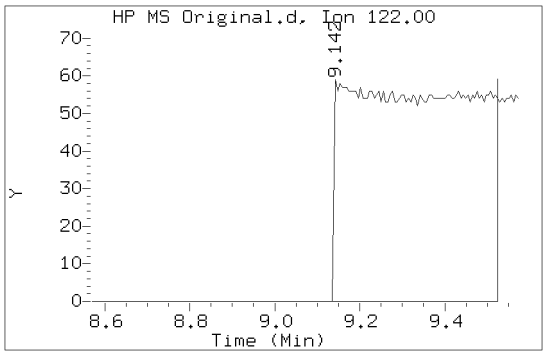
AFTER

MASS
244.1
AREA
22359
HEIGHT
22705
18-Dec-2023
10:16
linh
pham



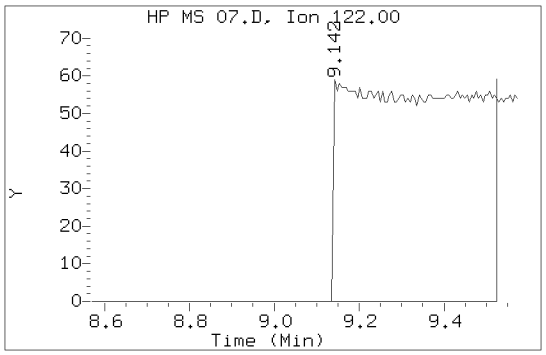
BEFORE

MASS
122
AREA
1277
HEIGHT
59
18-Dec-2023
10:16
linh
pham



AFTER

MASS
122
AREA
1277
HEIGHT
59
18-Dec-2023
10:16
linh
pham



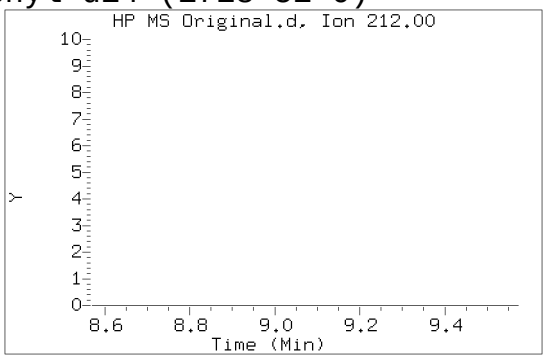
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Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

4-Terphenyl-d14 (1718-51-0)

Reason Code:

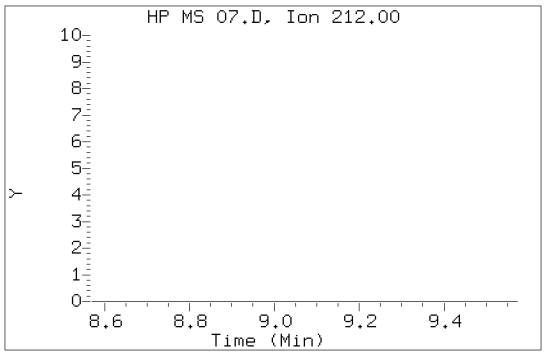
BEFORE

MASS
212
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
212
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\231212.b\08.D
Lab Smp Id: PAHSIM-0.15 Client Smp ID: PAHSIM-0.15
Inj Date : 12-DEC-2023 15:19
Operator : LG Inst ID: SV6.i
Smp Info : PAHSIM-0.15
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\231212.b\PAHSIM1.m
Meth Date : 18-Dec-2023 10:17 SV6.i Quant Type: ISTD
Cal Date : 12-DEC-2023 14:59 Cal File: 07.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: llpahdbf.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 45 Naphthalene-d8	136	4.391	4.391	(1.000)	17703	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.752	3.752	(0.854)	7134	0.15000	0.1461(M)
* 86 Acenaphthene-d10	164	6.058	6.058	(1.000)	10954	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	5.419	5.419	(0.895)	25774	0.15000	0.1478
* 126 Phenanthrene-d10	188	7.498	7.498	(1.000)	22321	0.10000	(M)
* 182 Chrysene-d12	240	10.243	10.243	(1.000)	20983	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.077	9.077	(0.886)	29263	0.15000	0.1373(M)
* 198 Perylene-d12	264	12.218	12.218	(1.000)	22219	0.10000	
46 Naphthalene	128	4.407	4.407	(1.004)	28695	0.15000	0.1477(M)
61 2-Methylnaphthalene	142	5.059	5.059	(1.184)	19417	0.15000	0.1495
62 1-Methylnaphthalene	142	5.151	5.151	(1.205)	18191	0.15000	0.1501
83 Acenaphthylene	152	5.917	5.917	(0.977)	29849	0.15000	0.1490
88 Acenaphthene	154	6.087	6.087	(1.005)	18502	0.15000	0.1465
98 Fluorene	166	6.588	6.588	(1.087)	22870	0.15000	0.1473
92 Dibenzofuran	168	6.717	6.717	(1.109)	12028	0.15000	0.1469(M)
128 Phenanthrene	178	7.517	7.517	(1.002)	36355	0.15000	0.1488
130 Anthracene	178	7.566	7.566	(1.009)	36102	0.15000	0.1483(M)
149 Fluoranthene	202	8.674	8.674	(1.157)	42723	0.15000	0.1470(M)
155 Pyrene	202	8.893	8.893	(0.868)	45084	0.15000	0.1478(M)

181 Benzo(a)Anthracene	228	10.228	10.228 (0.999)	42014	0.15000	0.1477(M)
183 Chrysene	228	10.265	10.265 (1.002)	46100	0.15000	0.1454(M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
192 Benzo(b)fluoranthene	252	11.675	11.675	(0.956)	39827	0.15000	0.1444(M)
195 Benzo(k)fluoranthene	252	11.712	11.712	(0.959)	50384	0.15000	0.1510
197 Benzo(a)pyrene	252	12.137	12.137	(0.993)	38902	0.15000	0.1455(M)
209 Indeno(1,2,3-cd)pyrene	276	13.738	13.738	(1.124)	46491	0.15000	0.1453(M)
210 Dibenzo(a,h)anthracene	278	13.790	13.790	(1.129)	39497	0.15000	0.1486(M)
212 Benzo(g,h,i)perylene	276	14.103	14.103	(1.154)	42774	0.15000	0.1497(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\231212.b\08.D

Date : 12-DEC-2023 15:19

Client ID: PAHSIM-0.15

Instrument: SV6.i

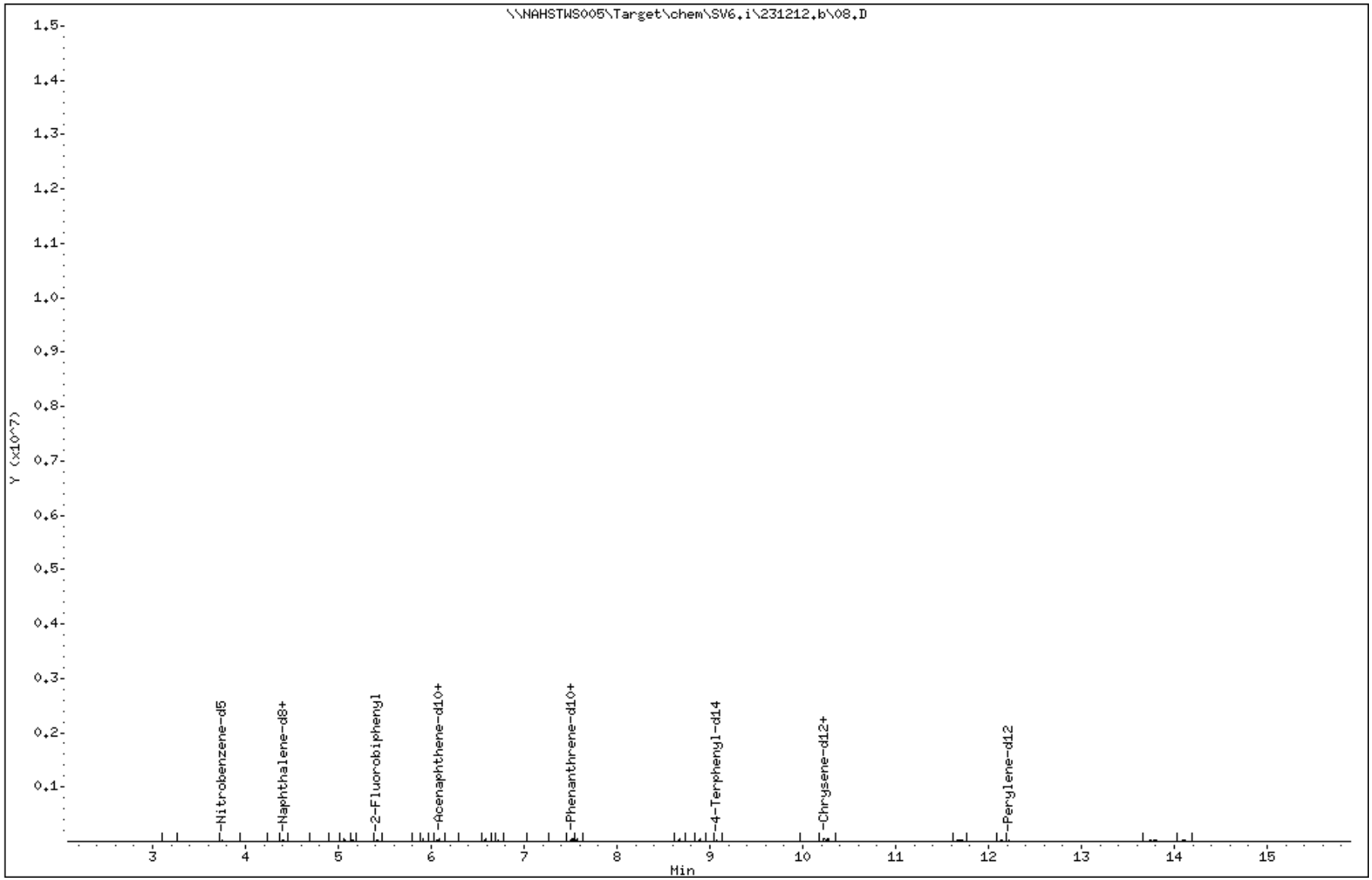
Sample Info: PAHSIM-0.15

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

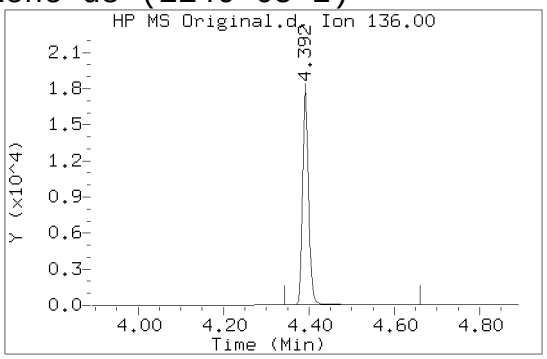


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Inj Date : 12-DEC-2023 15:19
InstruID : SV6.i
LabSampID : PAHSIM-0.15

Naphthalene-d8 (1146-65-2)

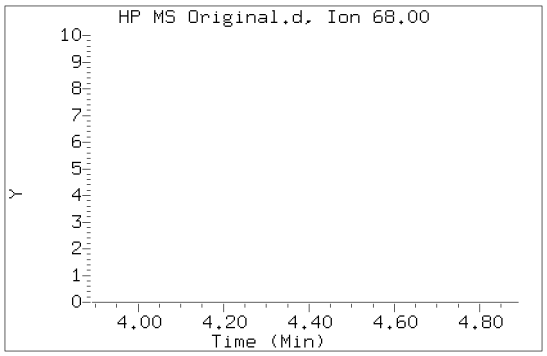
BEFORE

MASS
136
AREA
17703
HEIGHT
18361
18-Dec-2023
10:16
linh
pham



BEFORE

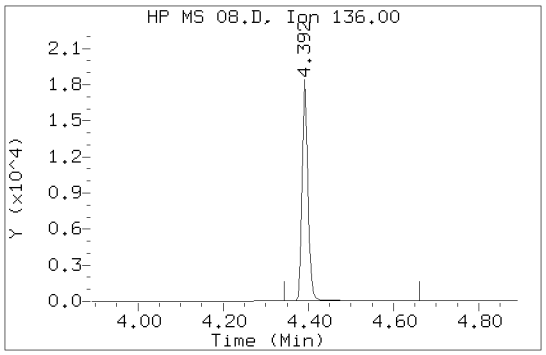
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68
AREA
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HEIGHT
0
18-Dec-2023
10:16
linh
pham



Reason Code:

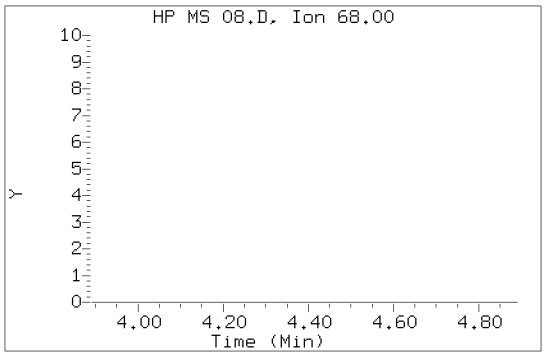
AFTER

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AREA
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HEIGHT
18361
18-Dec-2023
10:16
linh
pham



AFTER

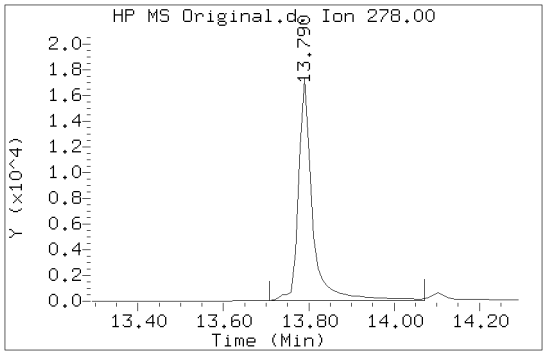
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HEIGHT
0
18-Dec-2023
10:16
linh
pham



Dibenzo(a,h)anthracene (53-70-3)

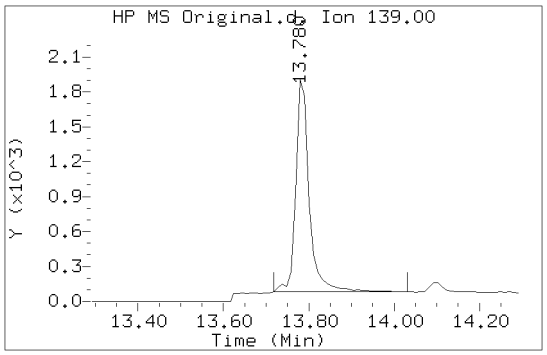
BEFORE

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39497
HEIGHT
17254
18-Dec-2023
10:16
linh
pham



BEFORE

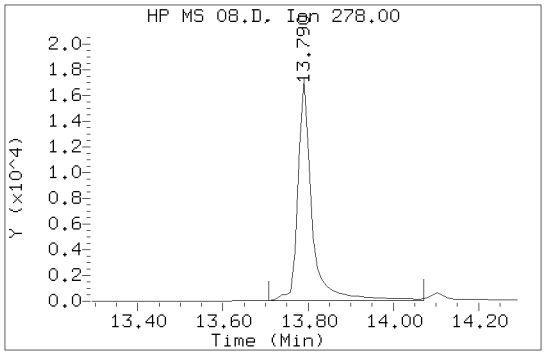
MASS
139
AREA
4012
HEIGHT
1825
18-Dec-2023
10:16
linh
pham



Reason Code:

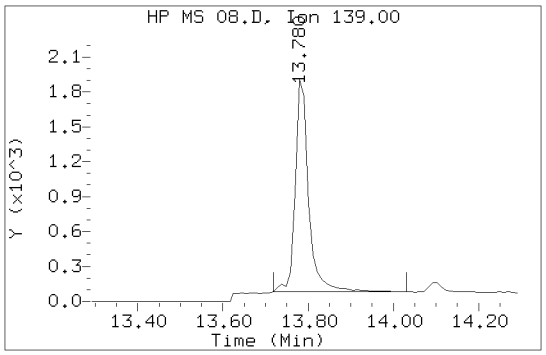
AFTER

MASS
278
AREA
39497
HEIGHT
17254
18-Dec-2023
10:16
linh
pham



AFTER

MASS
139
AREA
4012
HEIGHT
1825
18-Dec-2023
10:16
linh
pham



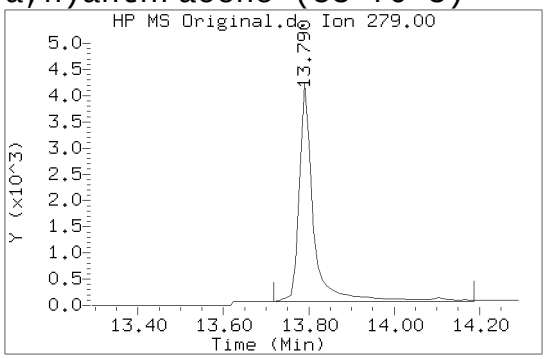
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Inj Date : 12-DEC-2023 15:19
InstruID : SV6.i
LabSampID : PAHSIM-0.15

Dibenzo(a,h)anthracene (53-70-3)

Reason Code:

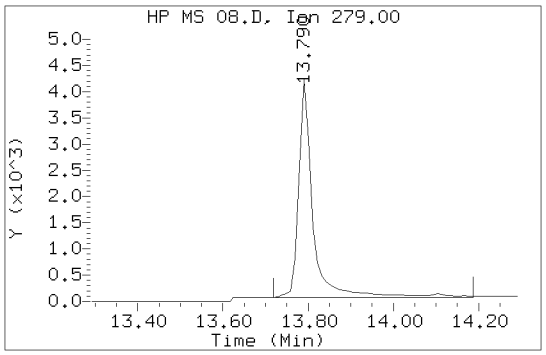
BEFORE

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AREA
9608
HEIGHT
4150
18-Dec-2023
10:16
linh
pham



AFTER

MASS
279
AREA
9608
HEIGHT
4150
18-Dec-2023
10:16
linh
pham

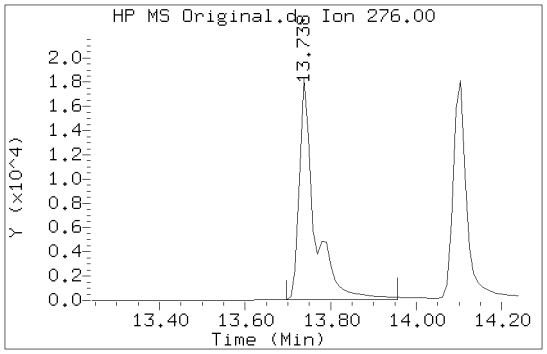


Indeno(1,2,3-cd)pyrene (193-39-5)

Reason Code:

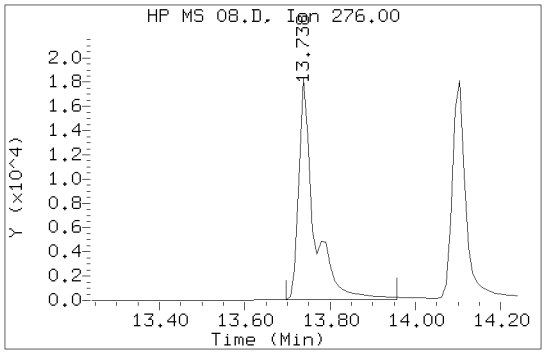
BEFORE

MASS
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HEIGHT
18252
18-Dec-2023
10:16
linh
pham



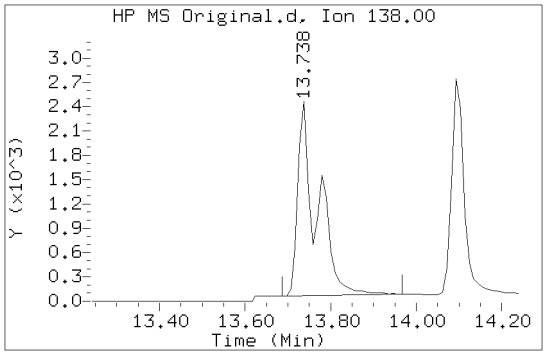
AFTER

MASS
276
AREA
46491
HEIGHT
18252
18-Dec-2023
10:16
linh
pham



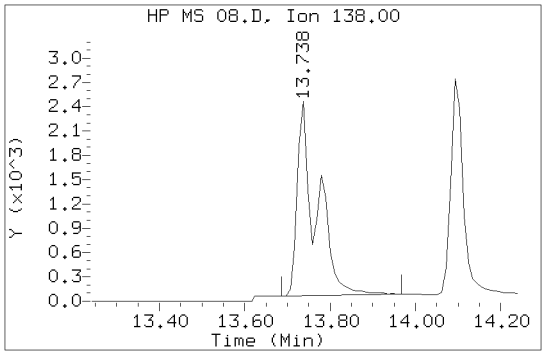
BEFORE

MASS
138
AREA
7473
HEIGHT
2397
18-Dec-2023
10:16
linh
pham



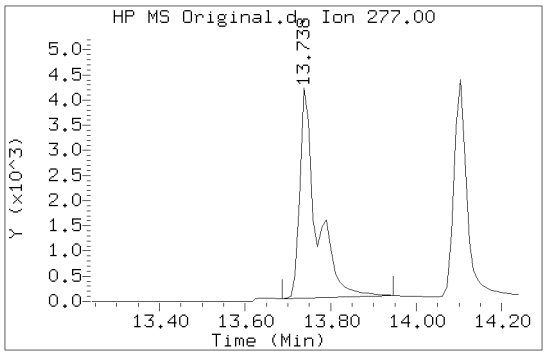
AFTER

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AREA
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HEIGHT
2397
18-Dec-2023
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linh
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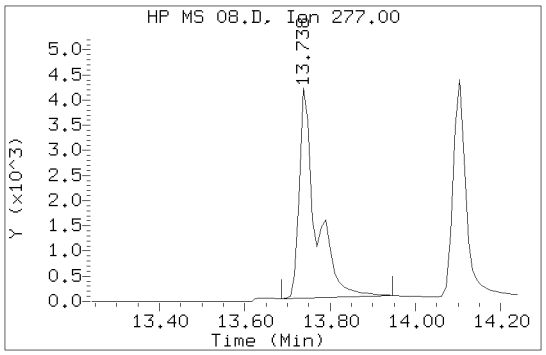
BEFORE

MASS
277
AREA
11364
HEIGHT
4172
18-Dec-2023
10:16
linh
pham



AFTER

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AREA
11364
HEIGHT
4172
18-Dec-2023
10:16
linh
pham



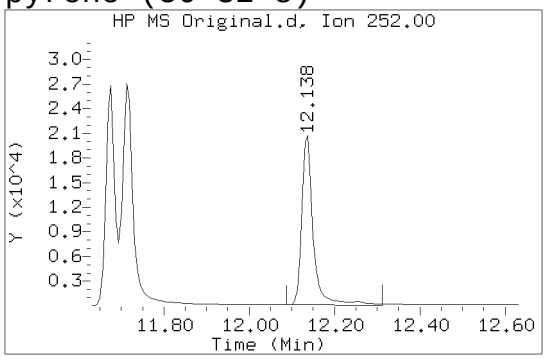
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Inj Date : 12-DEC-2023 15:19
InstruID : SV6.i
LabSampID : PAHSIM-0.15

Benzo(a)pyrene (50-32-8)

Reason Code:

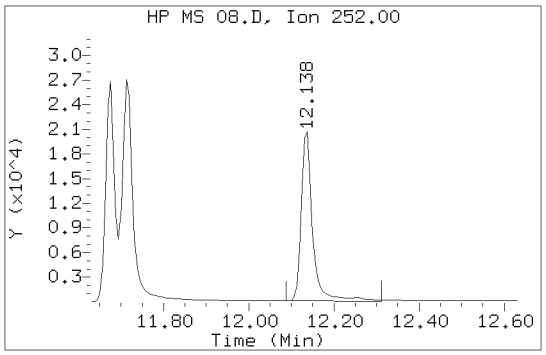
BEFORE

MASS
252
AREA
38902
HEIGHT
20639
18-Dec-2023
10:16
linh
pham



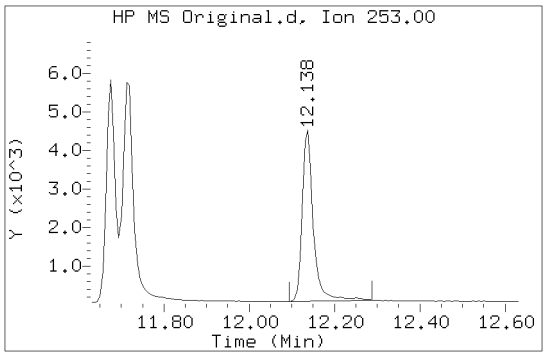
AFTER

MASS
252
AREA
38902
HEIGHT
20639
18-Dec-2023
10:16
linh
pham



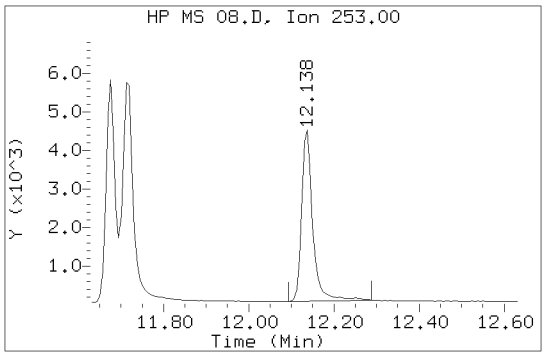
BEFORE

MASS
253
AREA
8136
HEIGHT
4443
18-Dec-2023
10:16
linh
pham



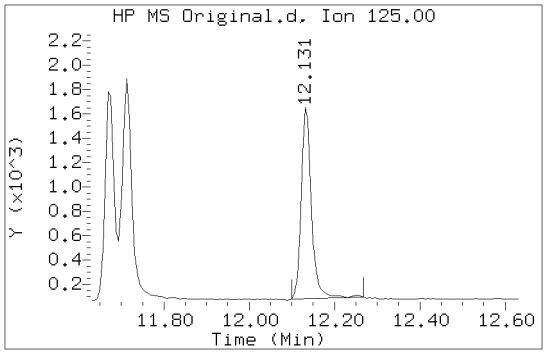
AFTER

MASS
253
AREA
8136
HEIGHT
4443
18-Dec-2023
10:16
linh
pham



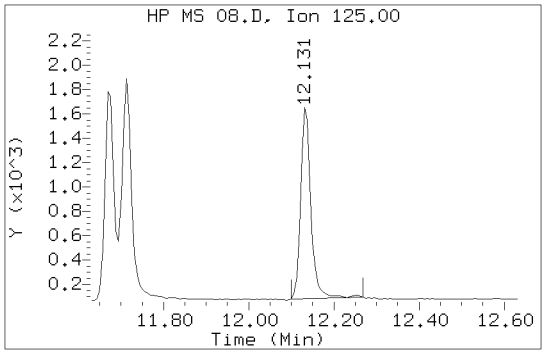
BEFORE

MASS
125
AREA
2667
HEIGHT
1572
18-Dec-2023
10:16
linh
pham



AFTER

MASS
125
AREA
2667
HEIGHT
1572
18-Dec-2023
10:16
linh
pham

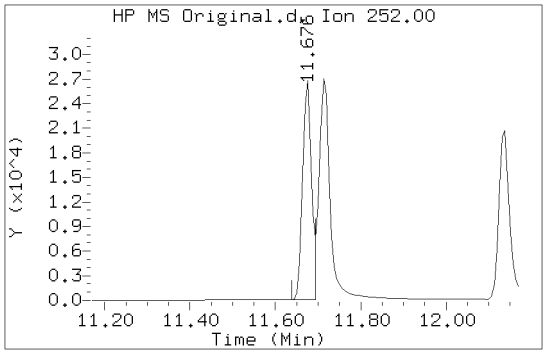


Benzo(b)fluoranthene (205-99-2)

Reason Code:

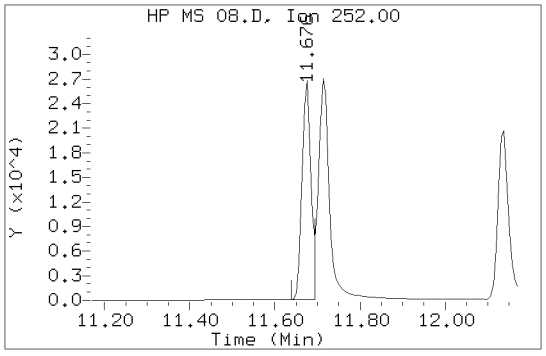
BEFORE

MASS
252
AREA
39827
HEIGHT
26824
18-Dec-2023
10:16
linh
pham



AFTER

MASS
252
AREA
39827
HEIGHT
26824
18-Dec-2023
10:16
linh
pham



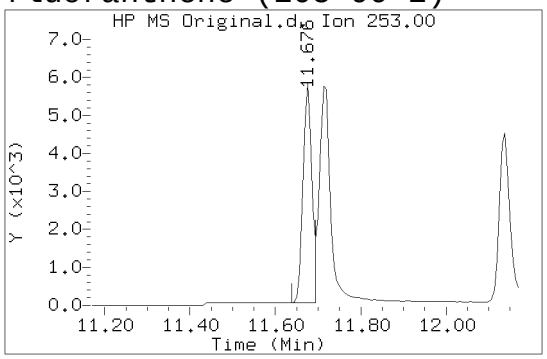
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\08.D
Inj Date : 12-DEC-2023 15:19
InstruID : SV6.i
LabSampID : PAHSIM-0.15

Benzo(b)fluoranthene (205-99-2)

Reason Code:

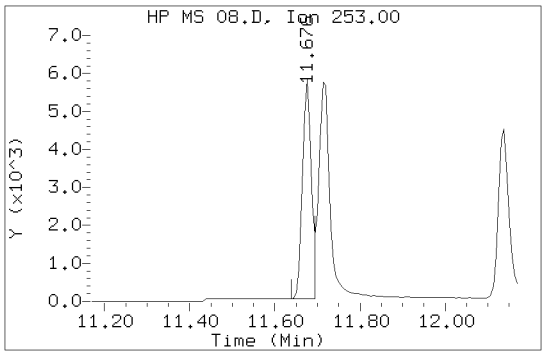
BEFORE

MASS
253
AREA
8483
HEIGHT
5763
18-Dec-2023
10:16
linh
pham



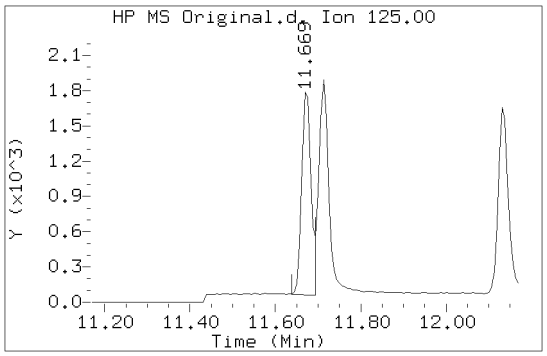
AFTER

MASS
253
AREA
8483
HEIGHT
5763
18-Dec-2023
10:16
linh
pham



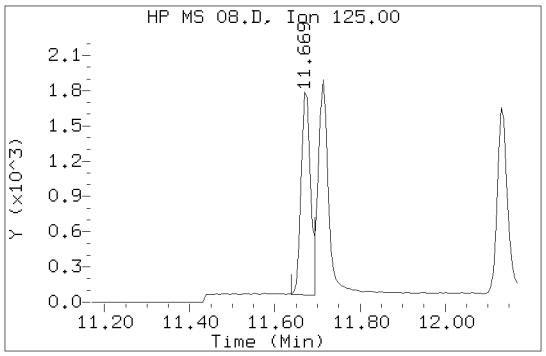
BEFORE

MASS
125
AREA
2701
HEIGHT
1722
18-Dec-2023
10:16
linh
pham



AFTER

MASS
125
AREA
2701
HEIGHT
1722
18-Dec-2023
10:16
linh
pham

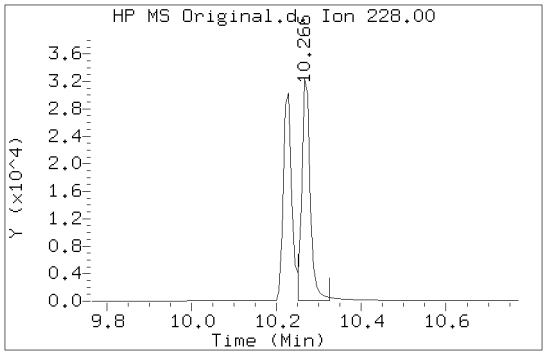


Chrysene (218-01-9)

Reason Code:

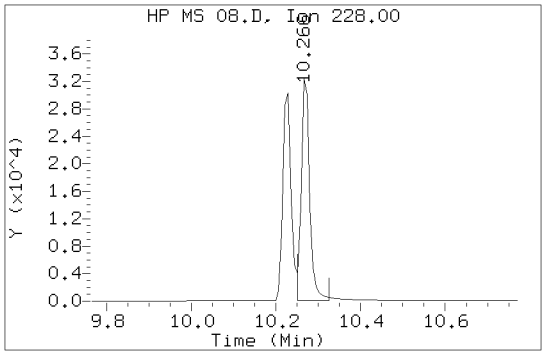
BEFORE

MASS
228
AREA
46100
HEIGHT
32289
18-Dec-2023
10:16
linh
pham



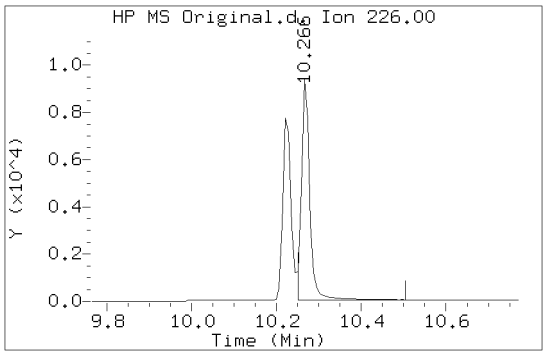
AFTER

MASS
228
AREA
46100
HEIGHT
32289
18-Dec-2023
10:16
linh
pham



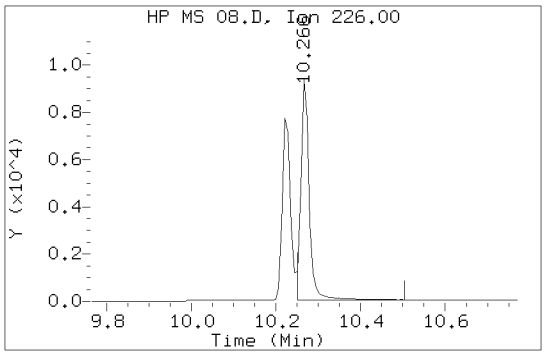
BEFORE

MASS
226
AREA
13053
HEIGHT
9330
18-Dec-2023
10:16
linh
pham



AFTER

MASS
226
AREA
13053
HEIGHT
9330
18-Dec-2023
10:16
linh
pham



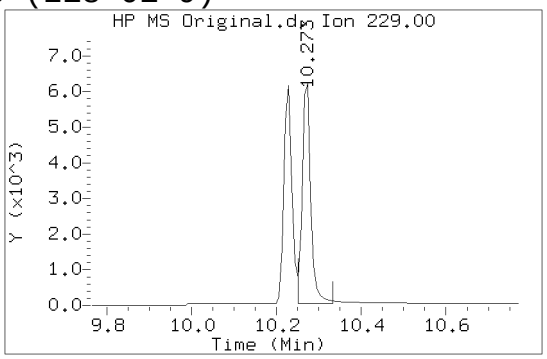
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\08.D
Inj Date : 12-DEC-2023 15:19
InstruID : SV6.i
LabSampID : PAHSIM-0.15

Chrysene (218-01-9)

Reason Code:

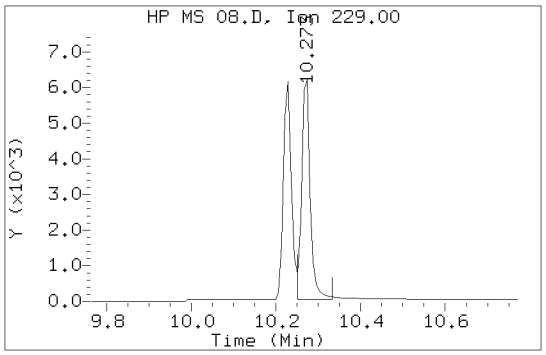
BEFORE

MASS
229
AREA
9005
HEIGHT
6168
18-Dec-2023
10:16
linh
pham



AFTER

MASS
229
AREA
9005
HEIGHT
6168
18-Dec-2023
10:16
linh
pham

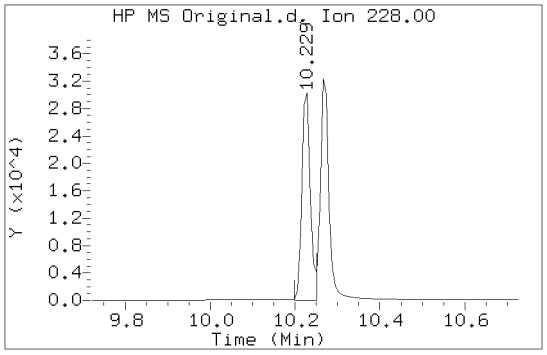


Benzo(a)Anthracene (56-55-3)

Reason Code:

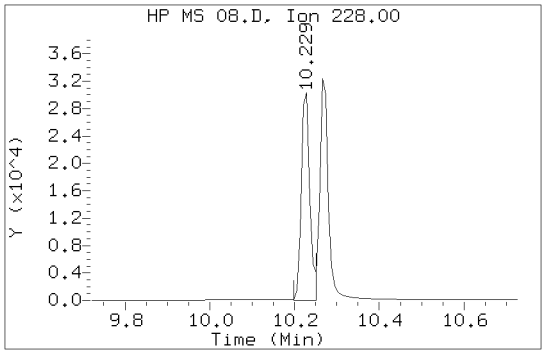
BEFORE

MASS
228
AREA
42014
HEIGHT
30307
18-Dec-2023
10:16
linh
pham



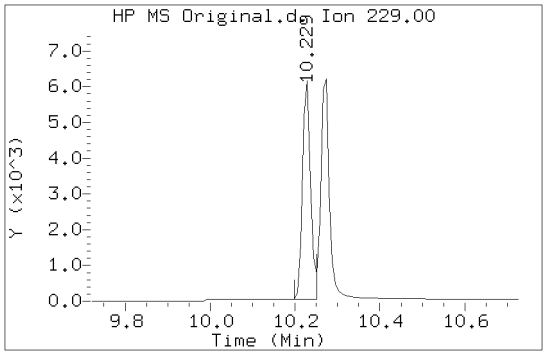
AFTER

MASS
228
AREA
42014
HEIGHT
30307
18-Dec-2023
10:16
linh
pham



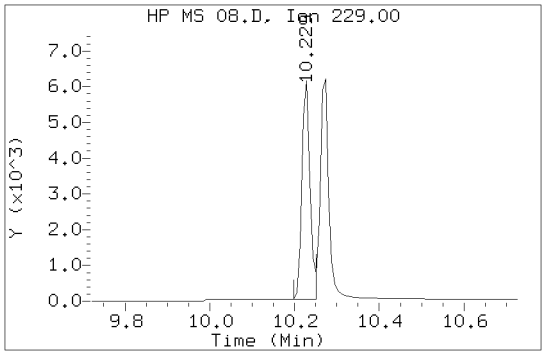
BEFORE

MASS
229
AREA
8083
HEIGHT
6107
18-Dec-2023
10:16
linh
pham



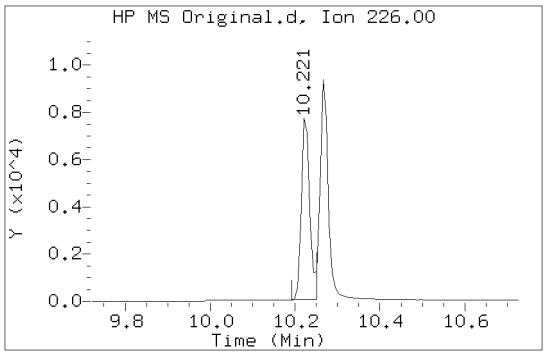
AFTER

MASS
229
AREA
8083
HEIGHT
6107
18-Dec-2023
10:16
linh
pham



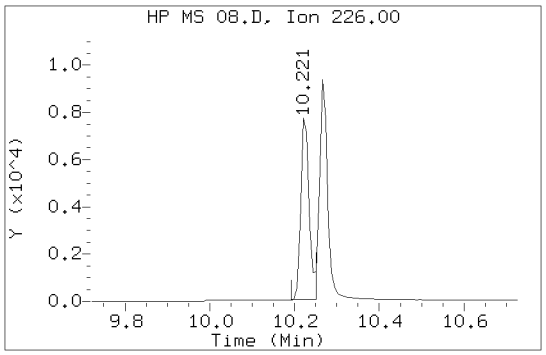
BEFORE

MASS
226
AREA
10572
HEIGHT
7672
18-Dec-2023
10:16
linh
pham



AFTER

MASS
226
AREA
10572
HEIGHT
7672
18-Dec-2023
10:16
linh
pham



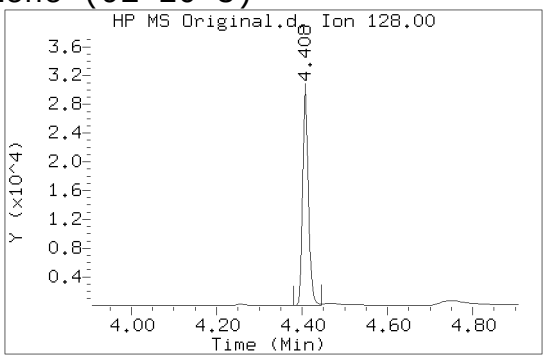
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\08.D
Inj Date : 12-DEC-2023 15:19
InstruID : SV6.i
LabSampID : PAHSIM-0.15

Naphthalene (91-20-3)

Reason Code:

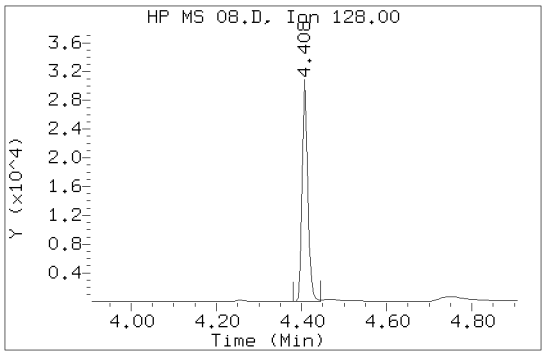
BEFORE

MASS
128
AREA
28695
HEIGHT
30803
18-Dec-2023
10:16
linh
pham



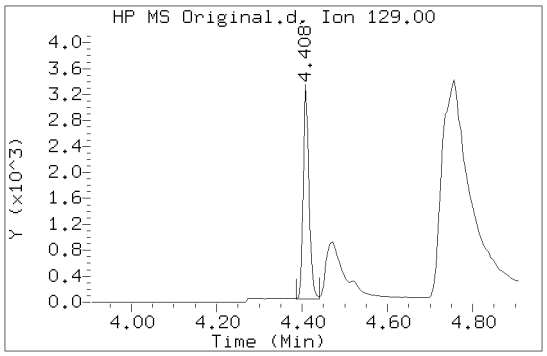
AFTER

MASS
128
AREA
28695
HEIGHT
30803
18-Dec-2023
10:16
linh
pham



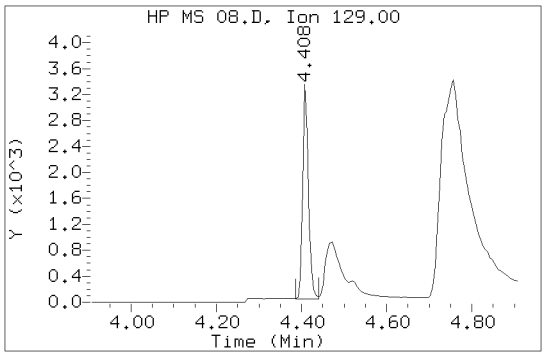
BEFORE

MASS
129
AREA
3124
HEIGHT
3303
18-Dec-2023
10:16
linh
pham



AFTER

MASS
129
AREA
3124
HEIGHT
3303
18-Dec-2023
10:16
linh
pham

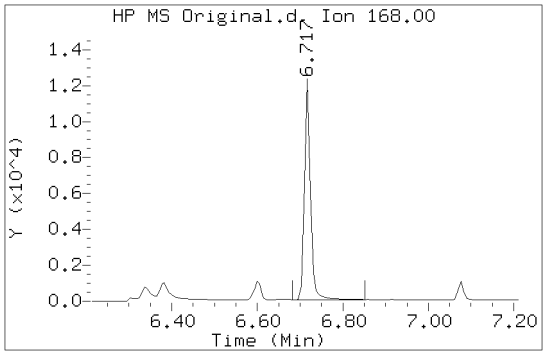


Dibenzofuran (132-64-9)

Reason Code:

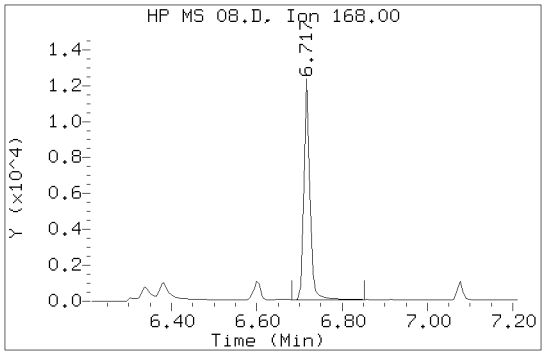
BEFORE

MASS
168
AREA
12028
HEIGHT
12288
18-Dec-2023
10:16
linh
pham



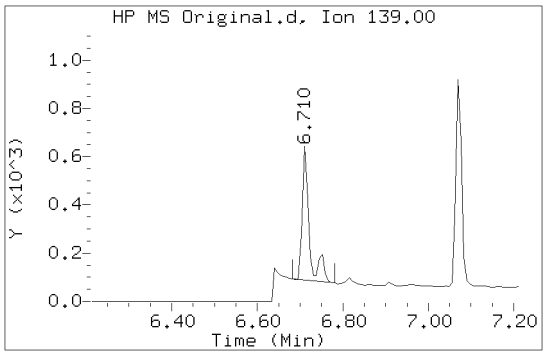
AFTER

MASS
168
AREA
12028
HEIGHT
12288
18-Dec-2023
10:16
linh
pham



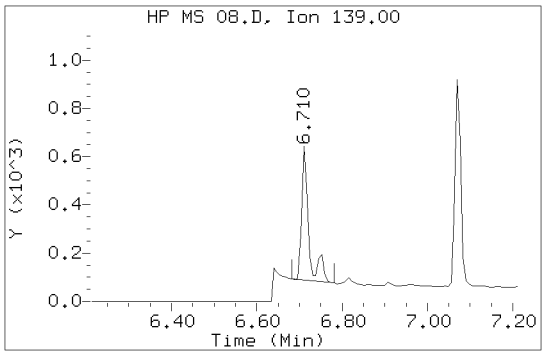
BEFORE

MASS
139
AREA
644
HEIGHT
554
18-Dec-2023
10:16
linh
pham



AFTER

MASS
139
AREA
644
HEIGHT
554
18-Dec-2023
10:16
linh
pham



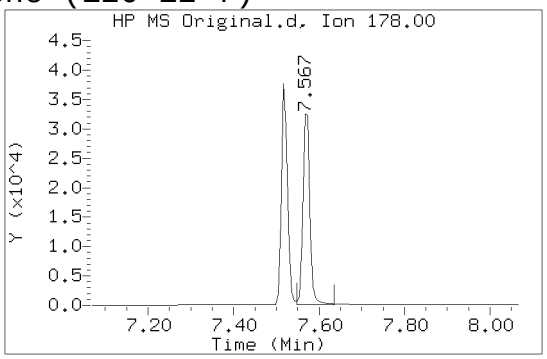
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\08.D
Inj Date : 12-DEC-2023 15:19
InstruID : SV6.i
LabSampID : PAHSIM-0.15

Anthracene (120-12-7)

Reason Code:

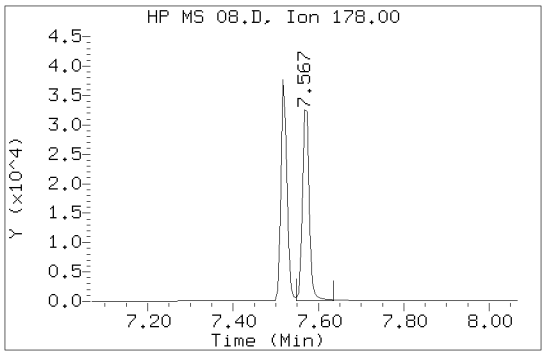
BEFORE

MASS
178
AREA
36102
HEIGHT
32533
18-Dec-2023
10:16
linh
pham



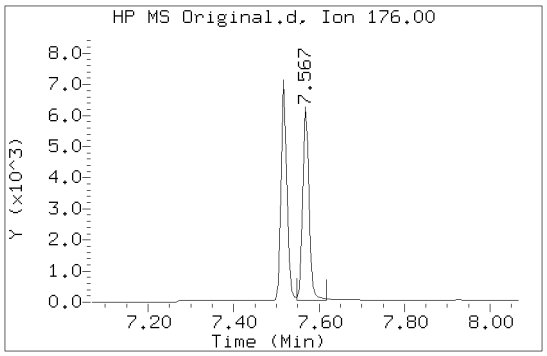
AFTER

MASS
178
AREA
36102
HEIGHT
32533
18-Dec-2023
10:16
linh
pham



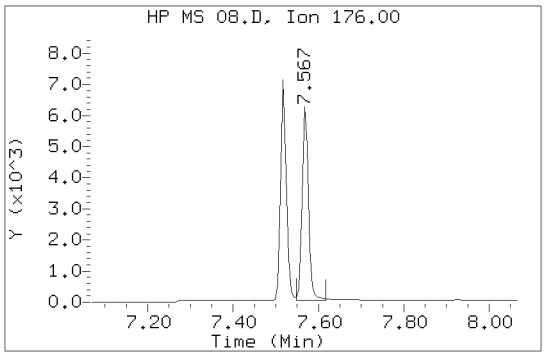
BEFORE

MASS
176
AREA
6322
HEIGHT
6225
18-Dec-2023
10:16
linh
pham



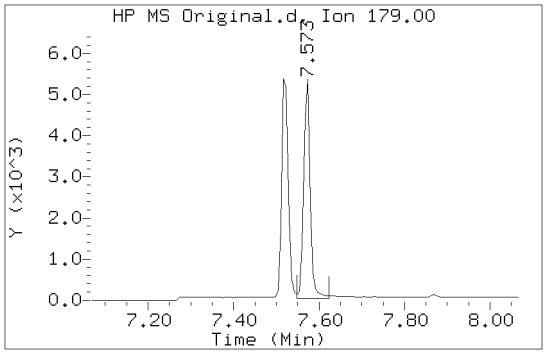
AFTER

MASS
176
AREA
6322
HEIGHT
6225
18-Dec-2023
10:16
linh
pham



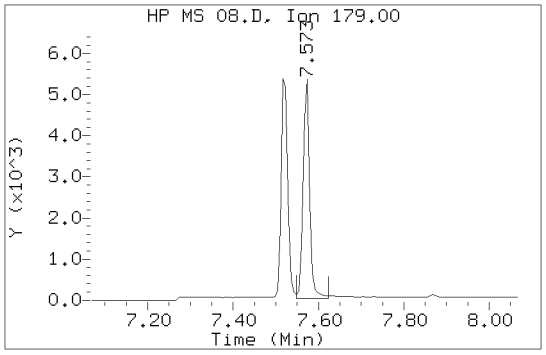
BEFORE

MASS
179
AREA
5546
HEIGHT
5321
18-Dec-2023
10:16
linh
pham



AFTER

MASS
179
AREA
5546
HEIGHT
5321
18-Dec-2023
10:16
linh
pham

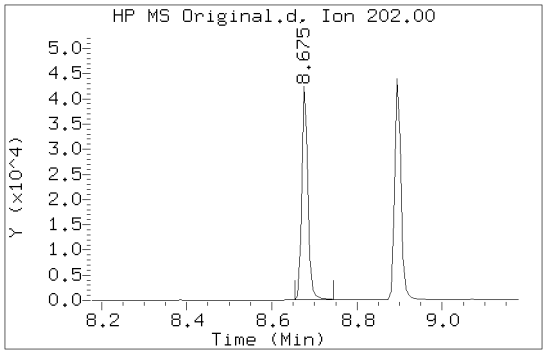


Fluoranthene (206-44-0)

Reason Code:

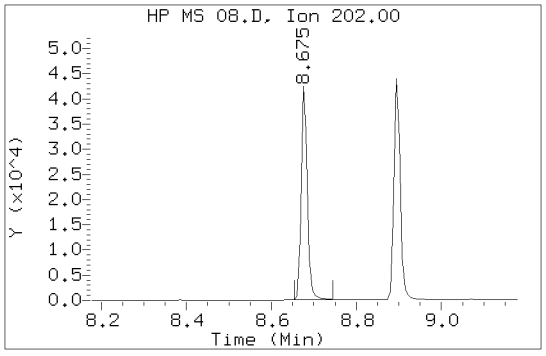
BEFORE

MASS
202
AREA
42723
HEIGHT
42362
18-Dec-2023
10:16
linh
pham



AFTER

MASS
202
AREA
42723
HEIGHT
42362
18-Dec-2023
10:16
linh
pham



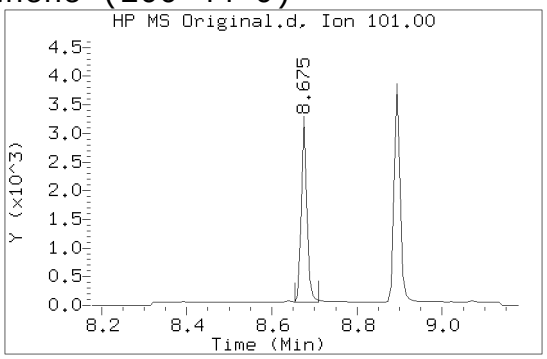
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\08.D
Inj Date : 12-DEC-2023 15:19
InstruID : SV6.i
LabSampID : PAHSIM-0.15

Fluoranthene (206-44-0)

Reason Code:

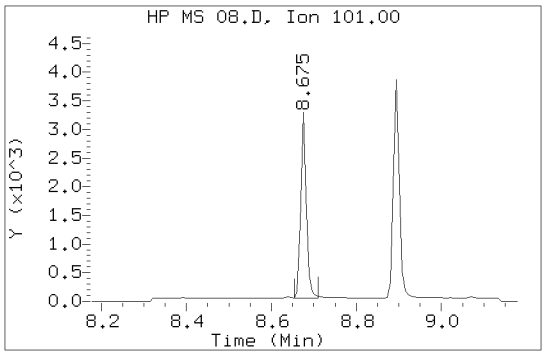
BEFORE

MASS
101
AREA
2971
HEIGHT
3235
18-Dec-2023
10:16
linh
pham



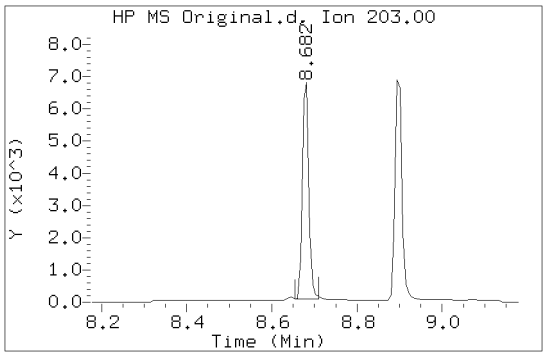
AFTER

MASS
101
AREA
2971
HEIGHT
3235
18-Dec-2023
10:16
linh
pham



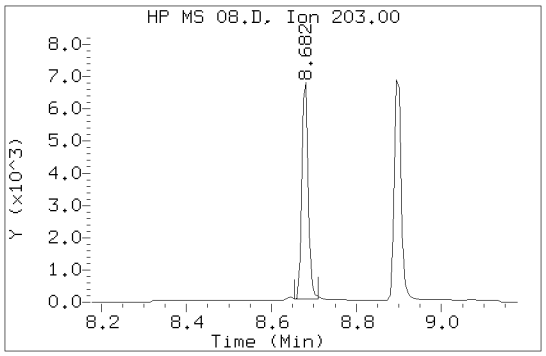
BEFORE

MASS
203
AREA
7180
HEIGHT
6726
18-Dec-2023
10:16
linh
pham



AFTER

MASS
203
AREA
7180
HEIGHT
6726
18-Dec-2023
10:16
linh
pham

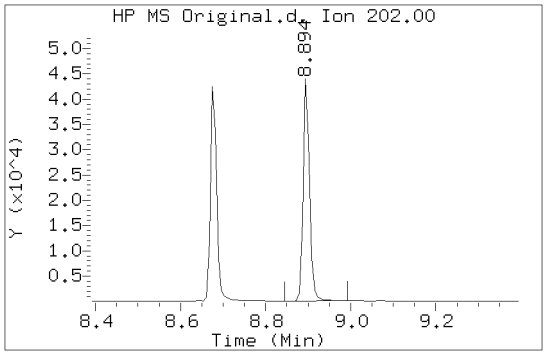


Pyrene (129-00-0)

Reason Code:

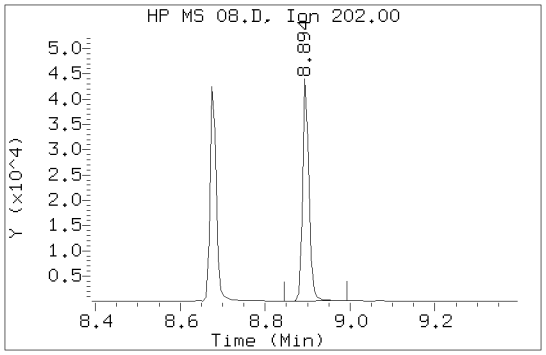
BEFORE

MASS
202
AREA
45084
HEIGHT
43896
18-Dec-2023
10:16
linh
pham



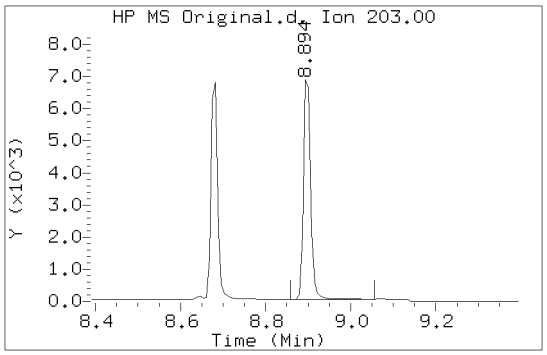
AFTER

MASS
202
AREA
45084
HEIGHT
43896
18-Dec-2023
10:16
linh
pham



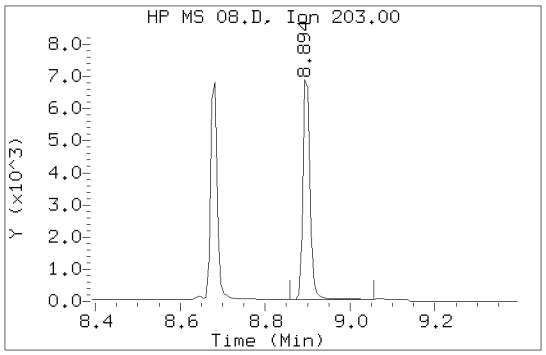
BEFORE

MASS
203
AREA
7919
HEIGHT
6836
18-Dec-2023
10:16
linh
pham



AFTER

MASS
203
AREA
7919
HEIGHT
6836
18-Dec-2023
10:16
linh
pham



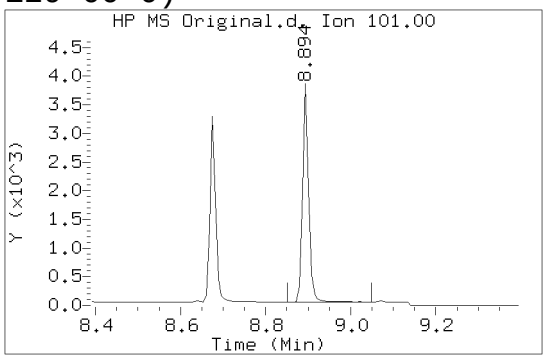
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Inj Date : 12-DEC-2023 15:19
InstruID : SV6.i
LabSampID : PAHSIM-0.15

Pyrene (129-00-0)

Reason Code:

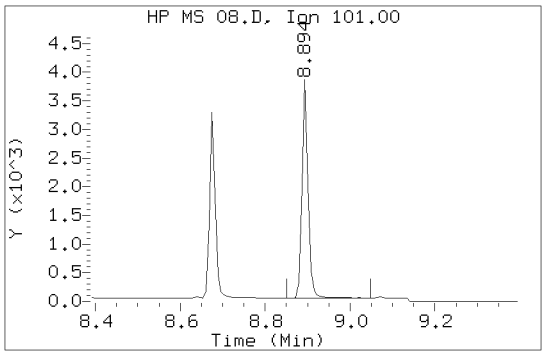
BEFORE

MASS
101
AREA
3749
HEIGHT
3812
18-Dec-2023
10:16
linh
pham



AFTER

MASS
101
AREA
3749
HEIGHT
3812
18-Dec-2023
10:16
linh
pham

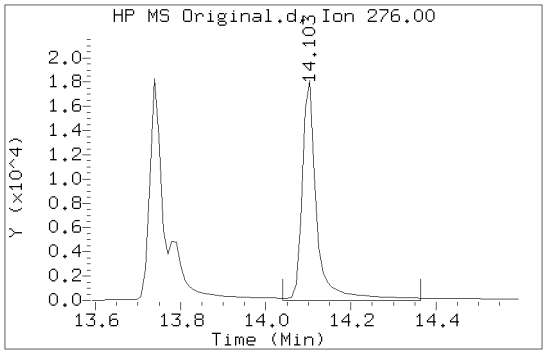


Benzo(g,h,i)perylene (191-24-2)

Reason Code:

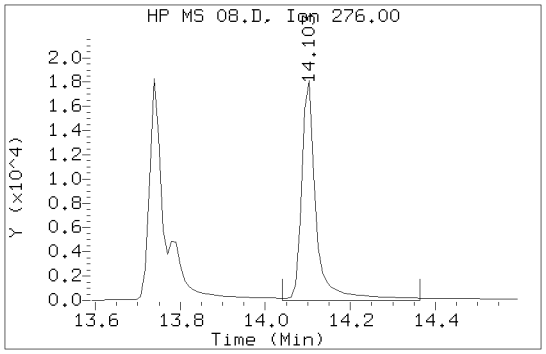
BEFORE

MASS
276
AREA
42774
HEIGHT
18111
18-Dec-2023
10:16
linh
pham



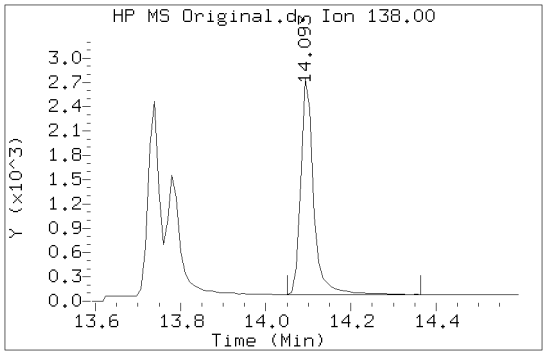
AFTER

MASS
276
AREA
42774
HEIGHT
18111
18-Dec-2023
10:16
linh
pham



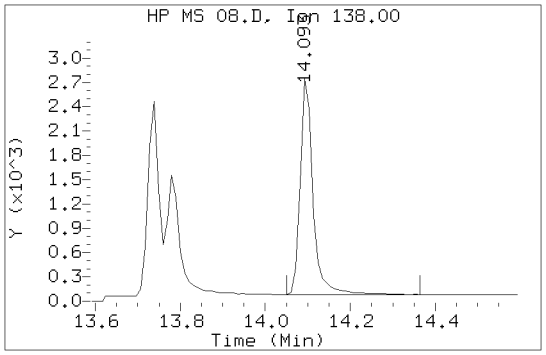
BEFORE

MASS
138
AREA
5536
HEIGHT
2662
18-Dec-2023
10:16
linh
pham



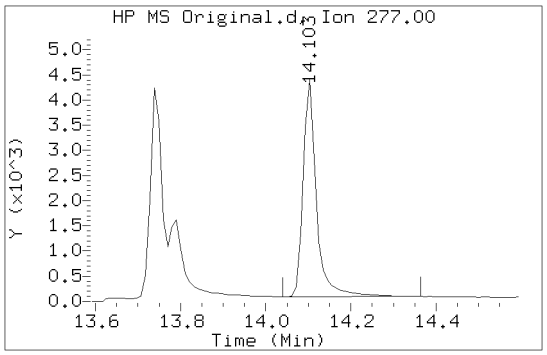
AFTER

MASS
138
AREA
5536
HEIGHT
2662
18-Dec-2023
10:16
linh
pham



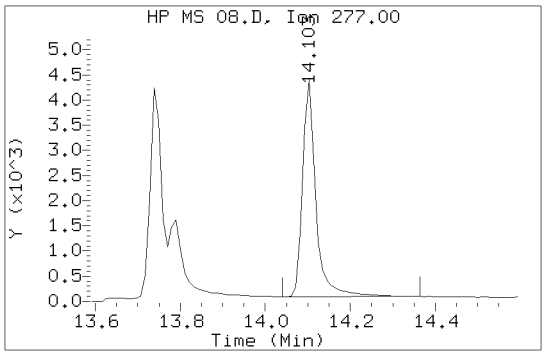
BEFORE

MASS
277
AREA
9389
HEIGHT
4317
18-Dec-2023
10:16
linh
pham



AFTER

MASS
277
AREA
9389
HEIGHT
4317
18-Dec-2023
10:16
linh
pham



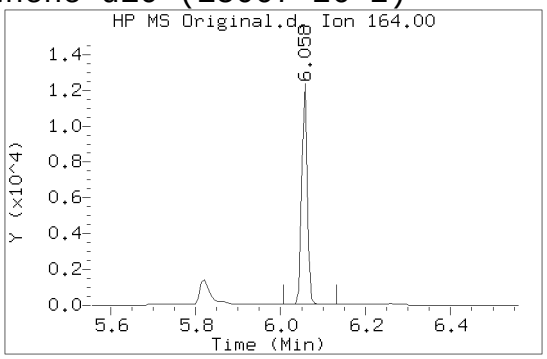
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Inj Date : 12-DEC-2023 15:19
InstruID : SV6.i
LabSampID : PAHSIM-0.15

Acenaphthene-d10 (15067-26-2)

Reason Code:

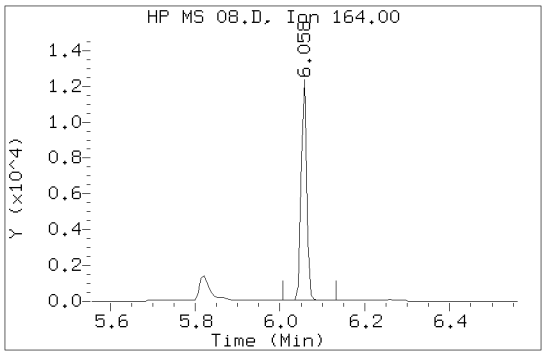
BEFORE

MASS
164
AREA
10954
HEIGHT
12313
18-Dec-2023
10:16
linh
pham



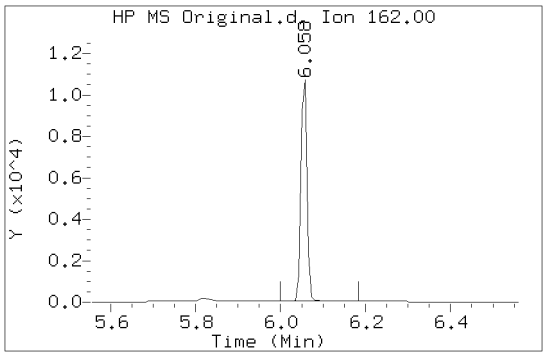
AFTER

MASS
164
AREA
10954
HEIGHT
12313
18-Dec-2023
10:16
linh
pham



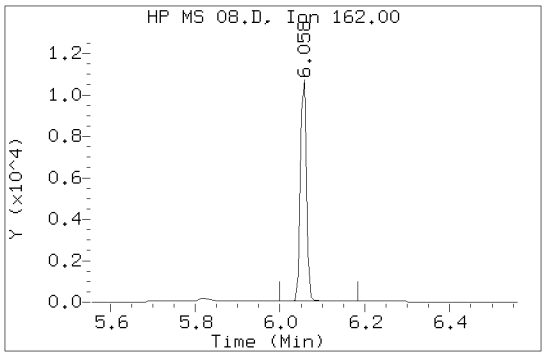
BEFORE

MASS
162
AREA
10539
HEIGHT
10667
18-Dec-2023
10:16
linh
pham



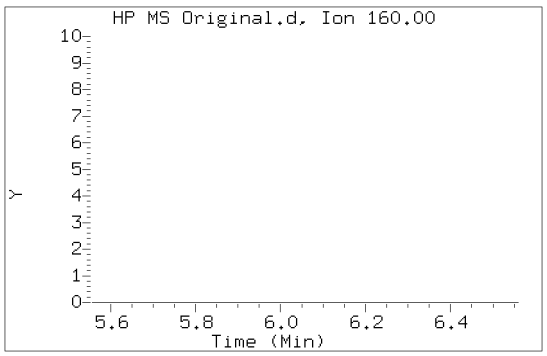
AFTER

MASS
162
AREA
10539
HEIGHT
10667
18-Dec-2023
10:16
linh
pham



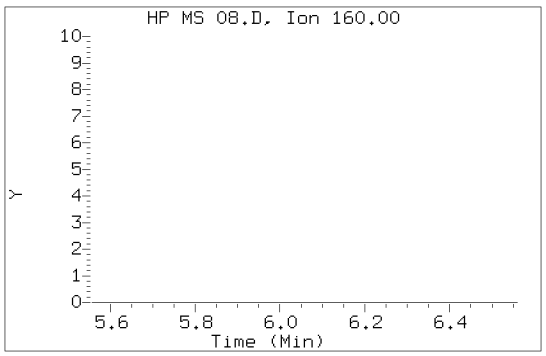
BEFORE

MASS
160
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
160
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham

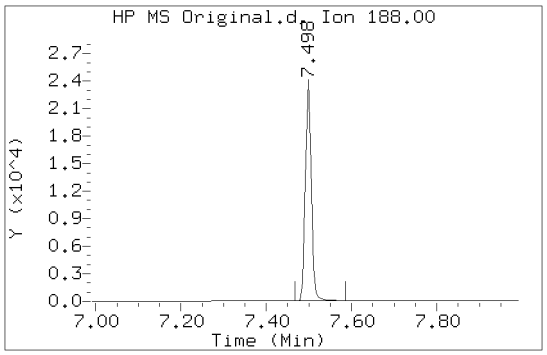


Phenanthrene-d10 (1517-22-2)

Reason Code:

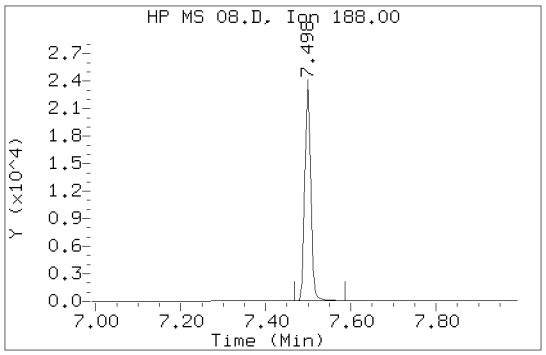
BEFORE

MASS
188
AREA
22321
HEIGHT
24096
18-Dec-2023
10:16
linh
pham



AFTER

MASS
188
AREA
22321
HEIGHT
24096
18-Dec-2023
10:16
linh
pham

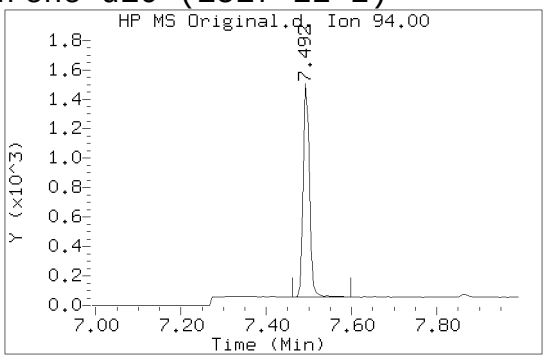


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Inj Date : 12-DEC-2023 15:19
InstruID : SV6.i
LabSampID : PAHSIM-0.15

Phenanthrene-d10 (1517-22-2)

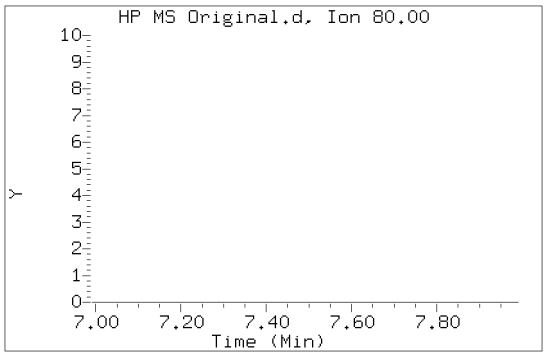
BEFORE

MASS
94
AREA
1436
HEIGHT
1450
18-Dec-2023
10:16
linh
pham



BEFORE

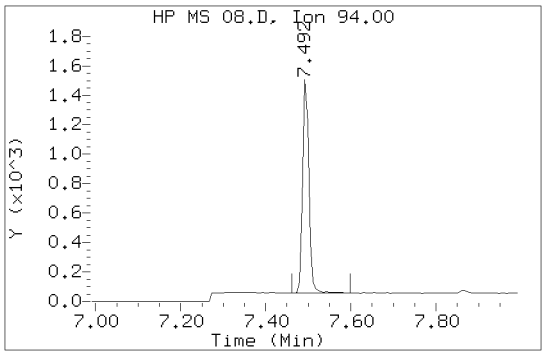
MASS
80
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



Reason Code:

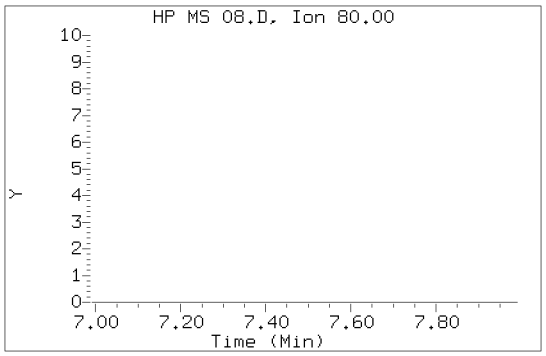
AFTER

MASS
94
AREA
1436
HEIGHT
1450
18-Dec-2023
10:16
linh
pham



AFTER

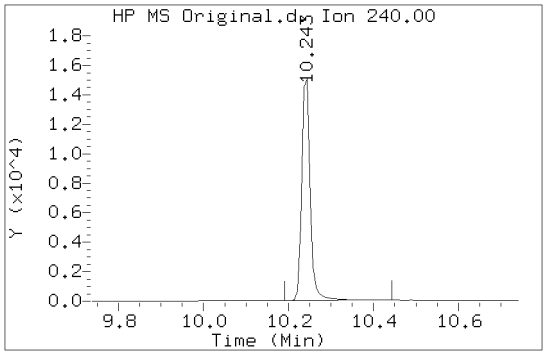
MASS
80
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



Chrysene-d12 (1719-03-5)

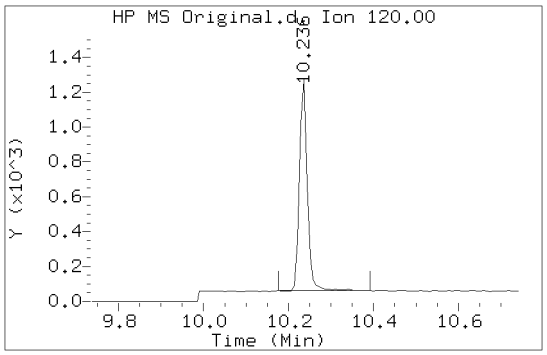
BEFORE

MASS
240
AREA
20983
HEIGHT
15023
18-Dec-2023
10:16
linh
pham



BEFORE

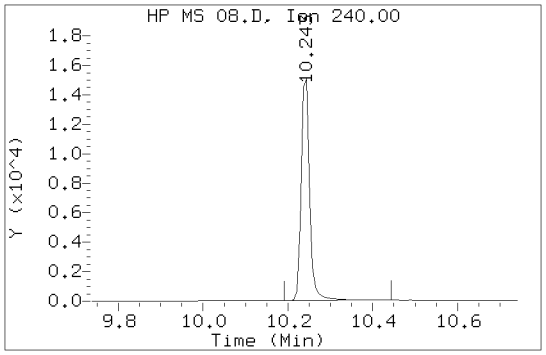
MASS
120
AREA
1547
HEIGHT
1211
18-Dec-2023
10:16
linh
pham



Reason Code:

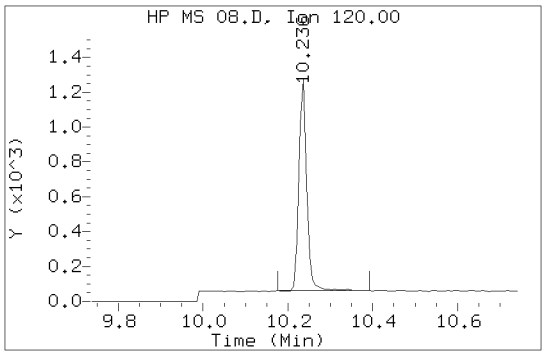
AFTER

MASS
240
AREA
20983
HEIGHT
15023
18-Dec-2023
10:16
linh
pham



AFTER

MASS
120
AREA
1547
HEIGHT
1211
18-Dec-2023
10:16
linh
pham



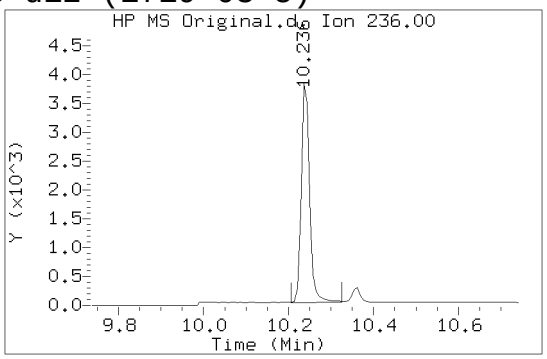
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Inj Date : 12-DEC-2023 15:19
InstruID : SV6.i
LabSampID : PAHSIM-0.15

Chrysene-d12 (1719-03-5)

Reason Code:

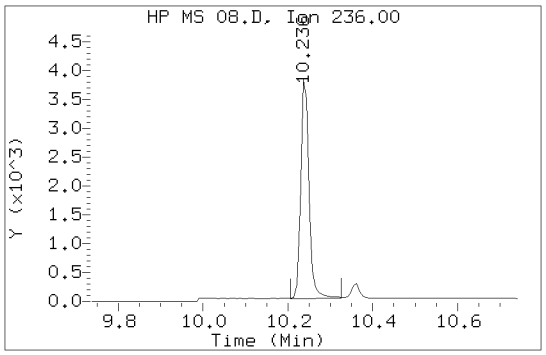
BEFORE

MASS
236
AREA
5163
HEIGHT
3797
18-Dec-2023
10:16
linh
pham



AFTER

MASS
236
AREA
5163
HEIGHT
3797
18-Dec-2023
10:16
linh
pham

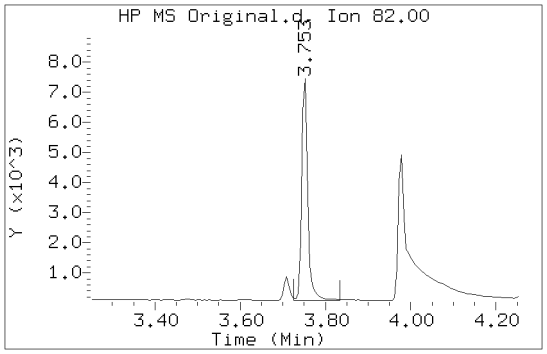


Nitrobenzene-d5 (4165-60-0)

Reason Code:

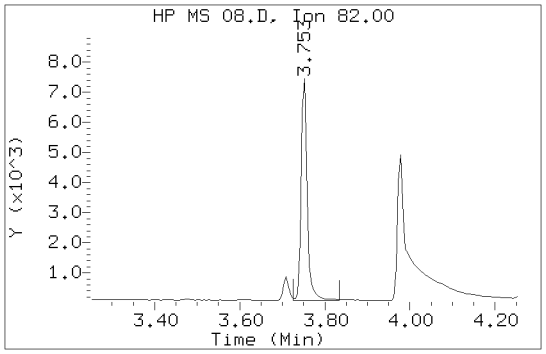
BEFORE

MASS
82
AREA
7134
HEIGHT
7357
18-Dec-2023
10:16
linh
pham



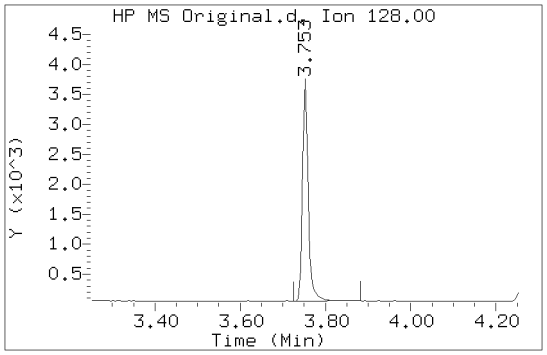
AFTER

MASS
82
AREA
7134
HEIGHT
7357
18-Dec-2023
10:16
linh
pham



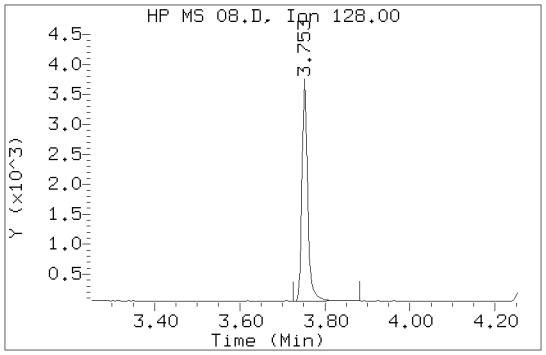
BEFORE

MASS
128
AREA
3358
HEIGHT
3706
18-Dec-2023
10:16
linh
pham



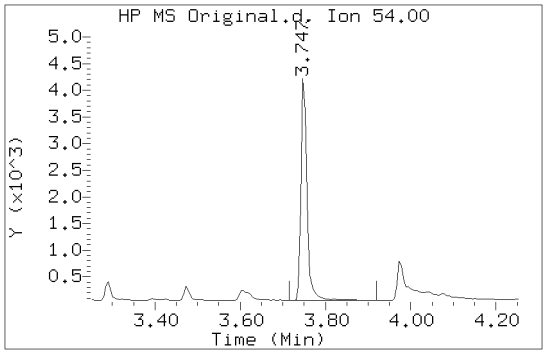
AFTER

MASS
128
AREA
3358
HEIGHT
3706
18-Dec-2023
10:16
linh
pham



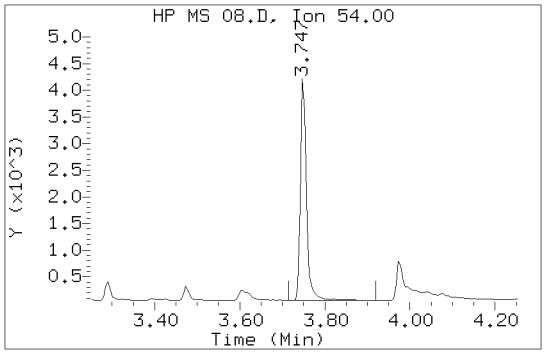
BEFORE

MASS
54
AREA
4005
HEIGHT
4152
18-Dec-2023
10:16
linh
pham



AFTER

MASS
54
AREA
4005
HEIGHT
4152
18-Dec-2023
10:16
linh
pham



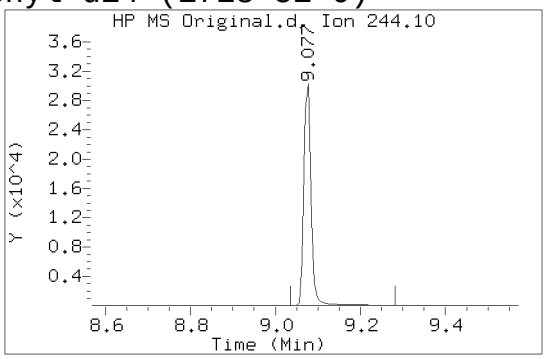
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Inj Date : 12-DEC-2023 15:19
InstruID : SV6.i
LabSampID : PAHSIM-0.15

4-Terphenyl-d14 (1718-51-0)

Reason Code:

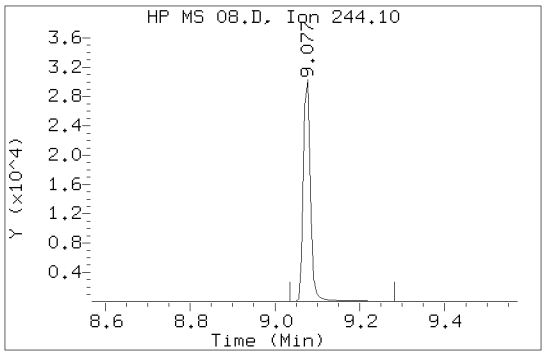
BEFORE

MASS
244.1
AREA
29263
HEIGHT
30253
18-Dec-2023
10:16
linh
pham



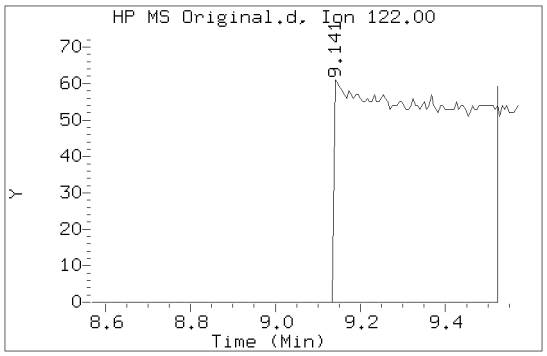
AFTER

MASS
244.1
AREA
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HEIGHT
30253
18-Dec-2023
10:16
linh
pham



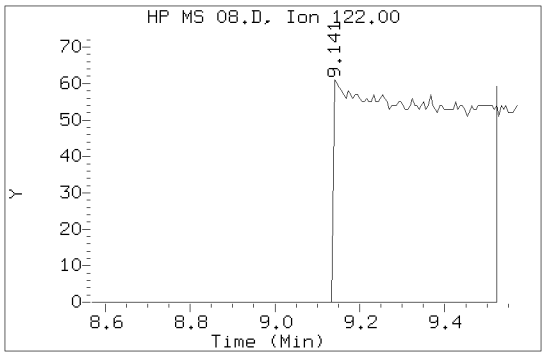
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MASS
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61
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linh
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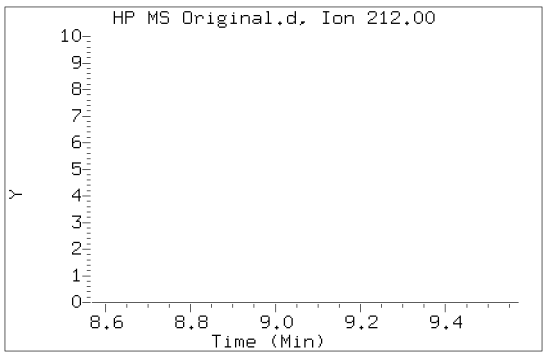
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linh
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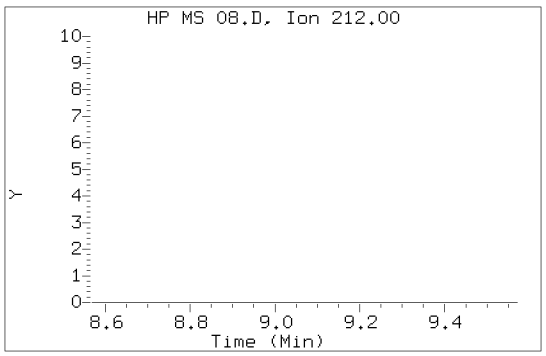
BEFORE

MASS
212
AREA
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HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
212
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\231212.b\09.D
Lab Smp Id: PAHSIM-0.20 Client Smp ID: PAHSIM-0.20
Inj Date : 12-DEC-2023 15:39
Operator : LG Inst ID: SV6.i
Smp Info : PAHSIM-0.20
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\231212.b\PAHSIM1.m
Meth Date : 18-Dec-2023 10:17 SV6.i Quant Type: ISTD
Cal Date : 12-DEC-2023 15:19 Cal File: 08.D
Als bottle: 9 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: llpahdbf.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 45 Naphthalene-d8	136	4.391	4.391	(1.000)	20197	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.752	3.752	(0.854)	11339	0.20000	0.2036(AM)
* 86 Acenaphthene-d10	164	6.056	6.056	(1.000)	12397	0.10000	
$ 69 2-Fluorobiphenyl	172	5.413	5.413	(0.894)	40079	0.20000	0.2030(AM)
* 126 Phenanthrene-d10	188	7.498	7.498	(1.000)	25613	0.10000	(M)
* 182 Chrysene-d12	240	10.235	10.235	(1.000)	24600	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.077	9.077	(0.887)	47723	0.20000	0.1910(AM)
* 198 Perylene-d12	264	12.218	12.218	(1.000)	25962	0.10000	
46 Naphthalene	128	4.407	4.407	(1.004)	44126	0.20000	0.1991(M)
61 2-Methylnaphthalene	142	5.059	5.059	(1.152)	30275	0.20000	0.2043(M)
62 1-Methylnaphthalene	142	5.151	5.151	(1.204)	28126	0.20000	0.2034
83 Acenaphthylene	152	5.915	5.915	(0.977)	46661	0.20000	0.2058
88 Acenaphthene	154	6.086	6.086	(1.005)	28559	0.20000	0.1998
98 Fluorene	166	6.588	6.588	(1.088)	35908	0.20000	0.2044
92 Dibenzofuran	168	6.717	6.717	(1.109)	18738	0.20000	0.2022(AM)
128 Phenanthrene	178	7.516	7.516	(1.002)	56684	0.20000	0.2022
130 Anthracene	178	7.566	7.566	(1.009)	56240	0.20000	0.2013(M)
149 Fluoranthene	202	8.674	8.674	(1.157)	66819	0.20000	0.2004
155 Pyrene	202	8.893	8.893	(0.869)	71204	0.20000	0.1991(M)

181 Benzo(a)Anthracene	228	10.221	10.221 (0.999)	67102	0.20000	0.2012(M)
183 Chrysene	228	10.265	10.265 (1.003)	74306	0.20000	0.1998(M)

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(NG)	(NG)
192 Benzo(b)fluoranthene	252	11.675	11.675	(0.956)	62840	0.20000	0.1950
195 Benzo(k)fluoranthene	252	11.712	11.712	(0.959)	77579	0.20000	0.1989(M)
197 Benzo(a)pyrene	252	12.137	12.137	(0.993)	64341	0.20000	0.2060(M)
209 Indeno(1,2,3-cd)pyrene	276	13.738	13.738	(1.124)	74022	0.20000	0.1980(M)
210 Dibenzo(a,h)anthracene	278	13.790	13.790	(1.129)	64775	0.20000	0.2086(M)
212 Benzo(g,h,i)perylene	276	14.103	14.103	(1.154)	68404	0.20000	0.2049(M)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\231212.b\09.D

Date : 12-DEC-2023 15:39

Client ID: PAHSIM-0.20

Instrument: SV6.i

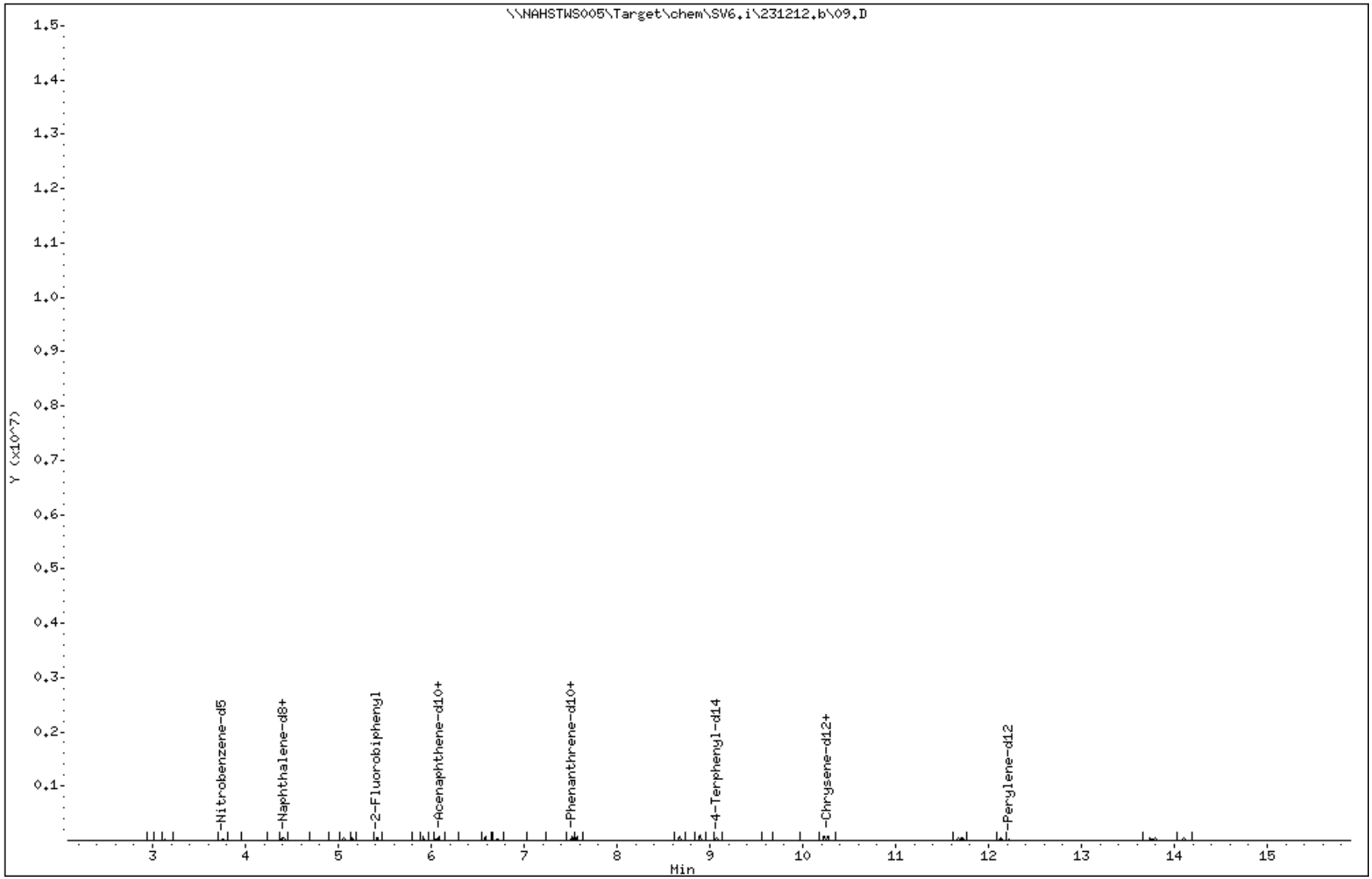
Sample Info: PAHSIM-0.20

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

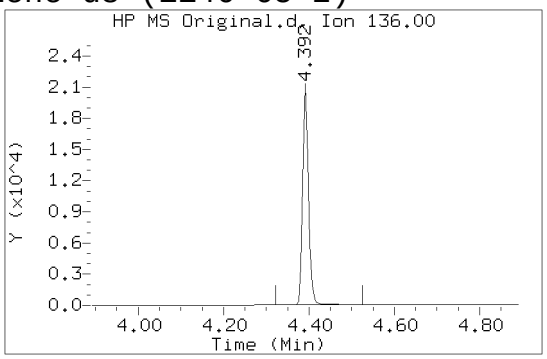


Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\09.D
Inj Date : 12-DEC-2023 15:39
InstruID : SV6.i
LabSampID : PAHSIM-0.20

Naphthalene-d8 (1146-65-2)

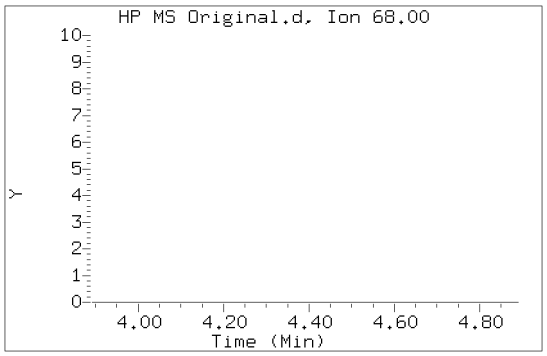
BEFORE

MASS
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HEIGHT
21278
18-Dec-2023
10:16
linh
pham



BEFORE

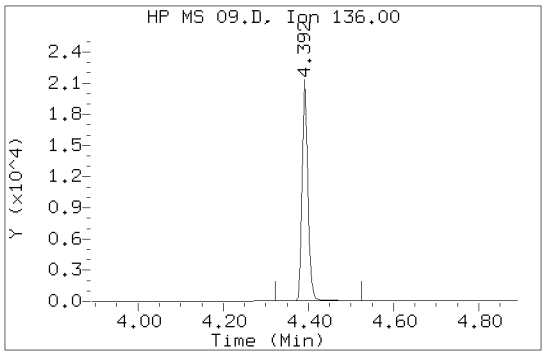
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AREA
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HEIGHT
0
18-Dec-2023
10:16
linh
pham



Reason Code:

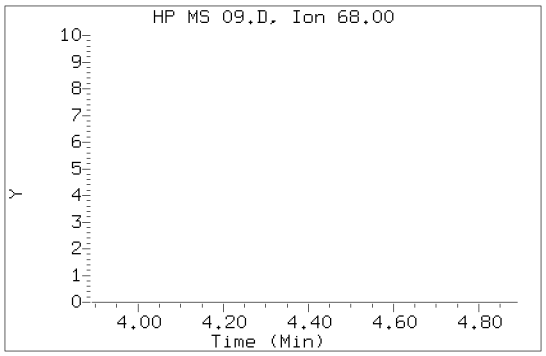
AFTER

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136
AREA
20197
HEIGHT
21278
18-Dec-2023
10:16
linh
pham



AFTER

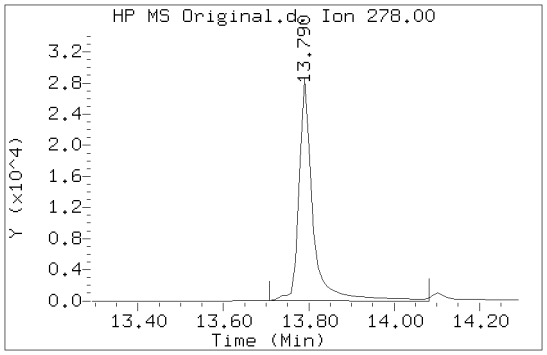
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AREA
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HEIGHT
0
18-Dec-2023
10:16
linh
pham



Dibenzo(a,h)anthracene (53-70-3)

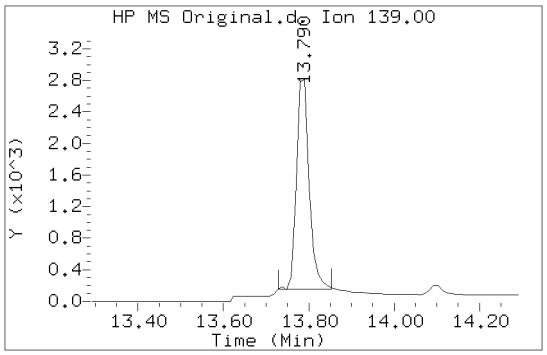
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HEIGHT
28507
18-Dec-2023
10:16
linh
pham



BEFORE

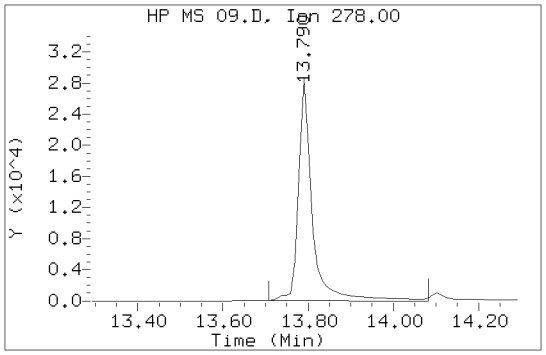
MASS
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AREA
5454
HEIGHT
2652
18-Dec-2023
10:16
linh
pham



Reason Code:

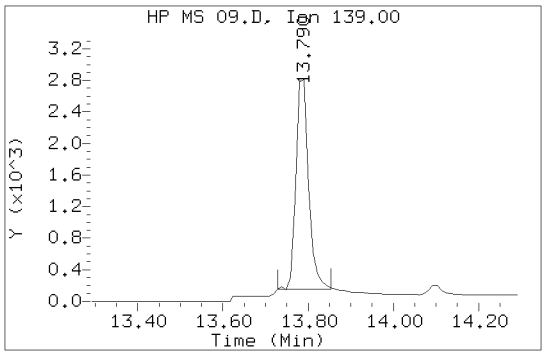
AFTER

MASS
278
AREA
64775
HEIGHT
28507
18-Dec-2023
10:16
linh
pham



AFTER

MASS
139
AREA
5454
HEIGHT
2652
18-Dec-2023
10:16
linh
pham



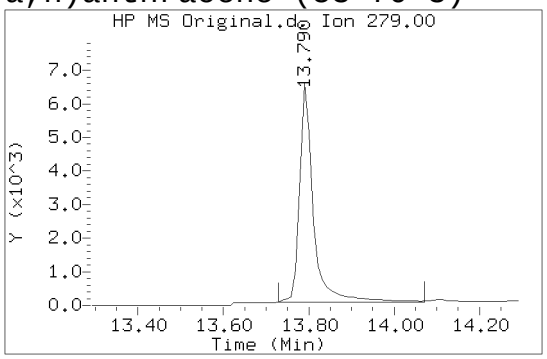
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Inj Date : 12-DEC-2023 15:39
InstruID : SV6.i
LabSampID : PAHSIM-0.20

Dibenzo(a,h)anthracene (53-70-3)

Reason Code:

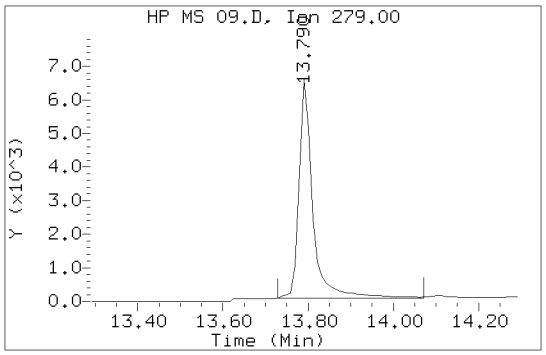
BEFORE

MASS
279
AREA
14451
HEIGHT
6499
18-Dec-2023
10:16
linh
pham



AFTER

MASS
279
AREA
14451
HEIGHT
6499
18-Dec-2023
10:16
linh
pham

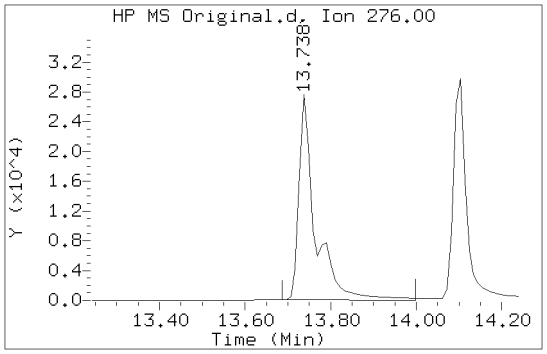


Indeno(1,2,3-cd)pyrene (193-39-5)

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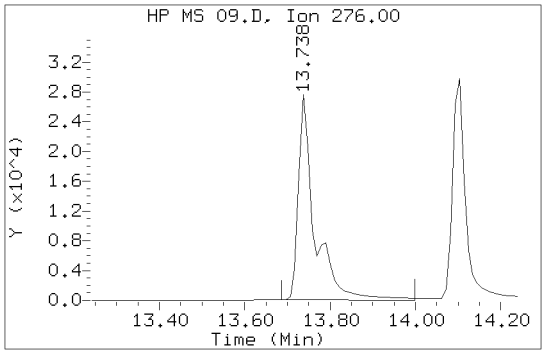
BEFORE

MASS
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HEIGHT
27593
18-Dec-2023
10:16
linh
pham



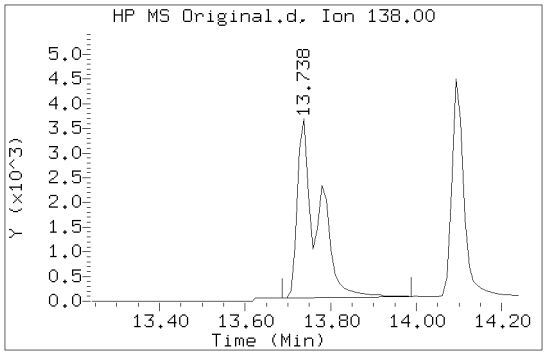
AFTER

MASS
276
AREA
74022
HEIGHT
27593
18-Dec-2023
10:16
linh
pham



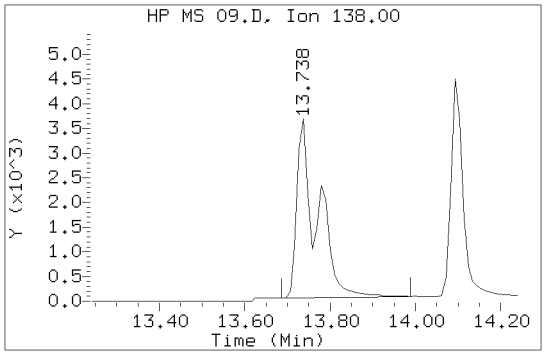
BEFORE

MASS
138
AREA
11944
HEIGHT
3635
18-Dec-2023
10:16
linh
pham



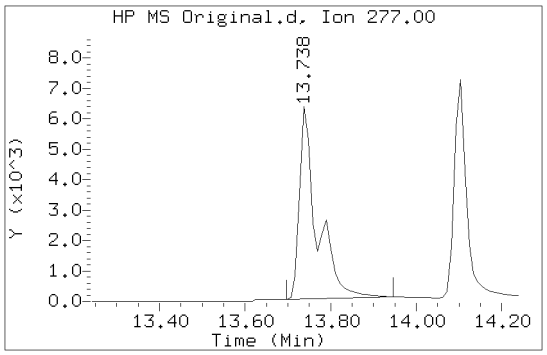
AFTER

MASS
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AREA
11944
HEIGHT
3635
18-Dec-2023
10:16
linh
pham



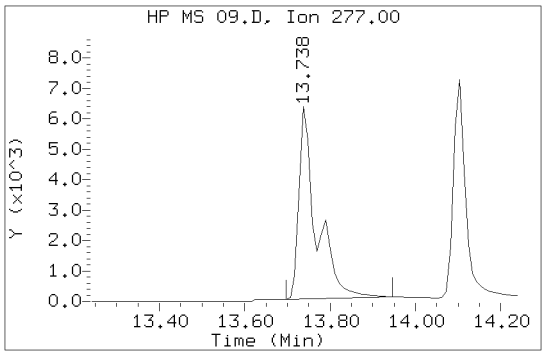
BEFORE

MASS
277
AREA
17958
HEIGHT
6332
18-Dec-2023
10:16
linh
pham



AFTER

MASS
277
AREA
17958
HEIGHT
6332
18-Dec-2023
10:16
linh
pham



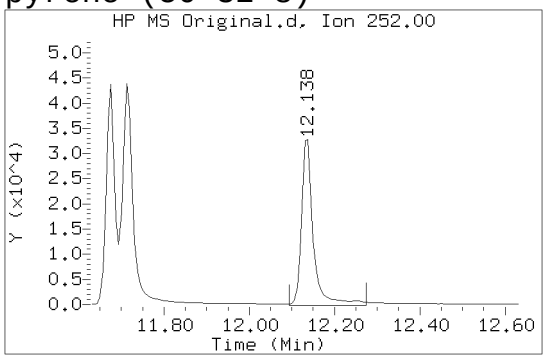
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Inj Date : 12-DEC-2023 15:39
InstruID : SV6.i
LabSampID : PAHSIM-0.20

Benzo(a)pyrene (50-32-8)

Reason Code:

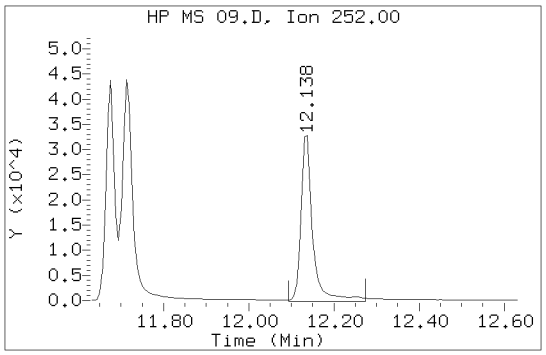
BEFORE

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AREA
64341
HEIGHT
32933
18-Dec-2023
10:16
linh
pham



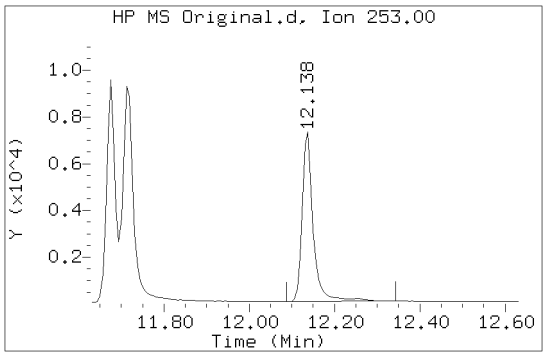
AFTER

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AREA
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HEIGHT
32933
18-Dec-2023
10:16
linh
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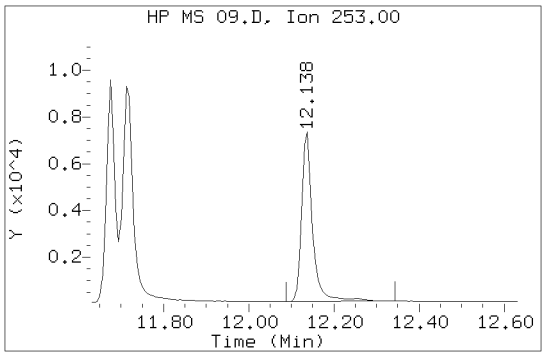
BEFORE

MASS
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AREA
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HEIGHT
7270
18-Dec-2023
10:16
linh
pham



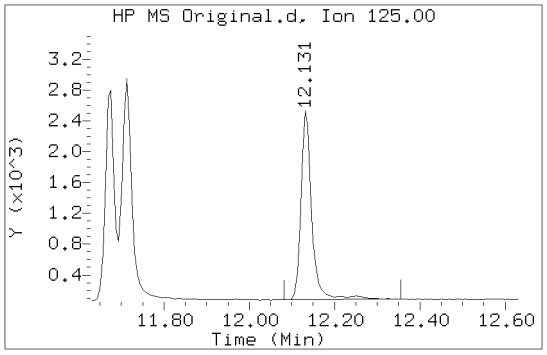
AFTER

MASS
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AREA
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HEIGHT
7270
18-Dec-2023
10:16
linh
pham



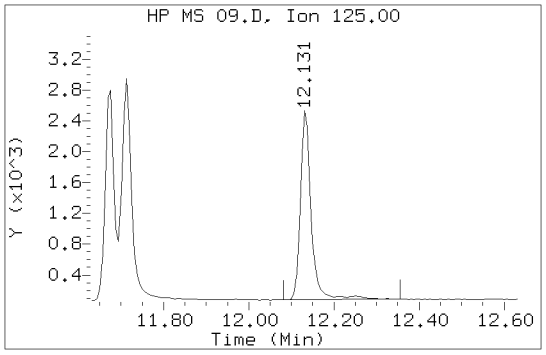
BEFORE

MASS
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4385
HEIGHT
2456
18-Dec-2023
10:16
linh
pham



AFTER

MASS
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AREA
4385
HEIGHT
2456
18-Dec-2023
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linh
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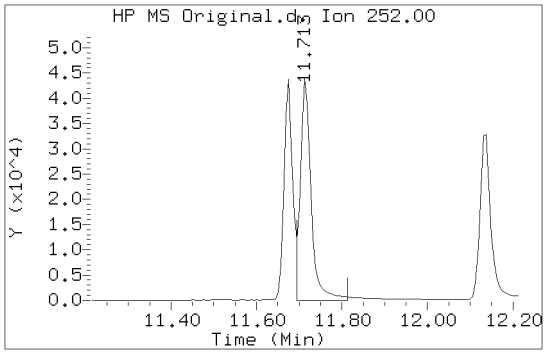


Benzo(k)fluoranthene (207-08-9)

Reason Code:

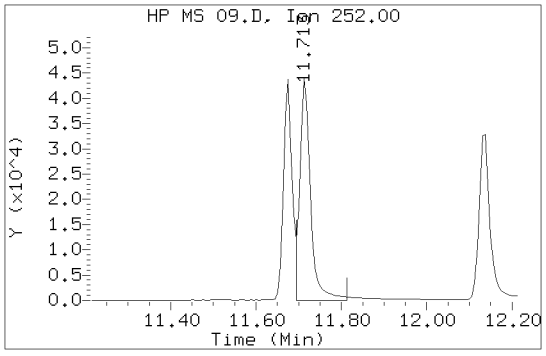
BEFORE

MASS
252
AREA
77579
HEIGHT
43820
18-Dec-2023
10:16
linh
pham



AFTER

MASS
252
AREA
77579
HEIGHT
43820
18-Dec-2023
10:16
linh
pham

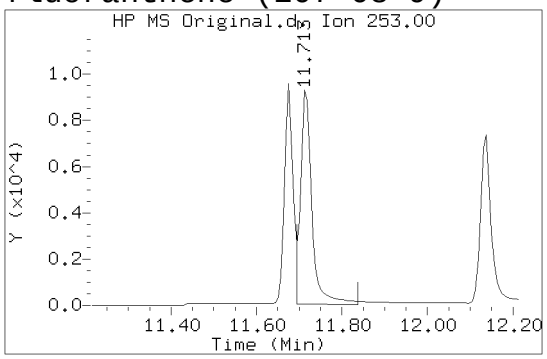


Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\09.D
Inj Date : 12-DEC-2023 15:39
InstruID : SV6.i
LabSampID : PAHSIM-0.20

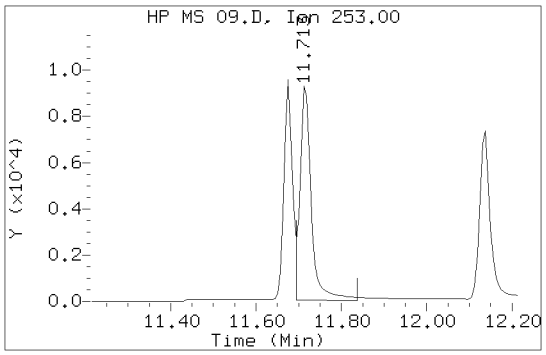
Benzo(k)fluoranthene (207-08-9)

Reason Code:

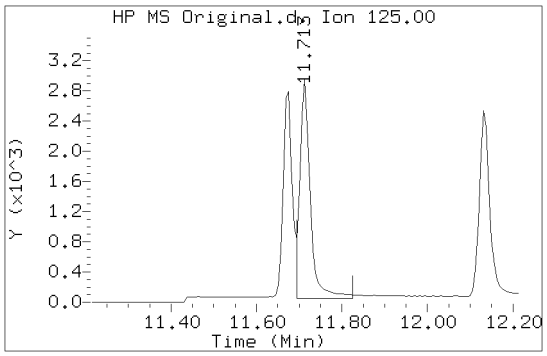
BEFORE
MASS
253
AREA
17280
HEIGHT
9264
18-Dec-2023
10:16
linh
pham



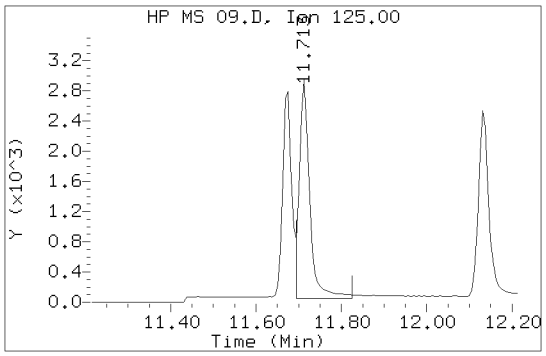
AFTER
MASS
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AREA
17280
HEIGHT
9264
18-Dec-2023
10:16
linh
pham



BEFORE
MASS
125
AREA
5006
HEIGHT
2896
18-Dec-2023
10:16
linh
pham



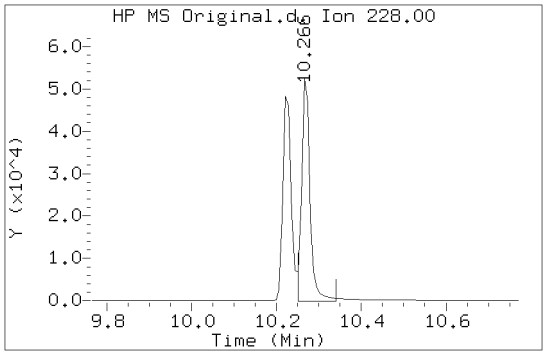
AFTER
MASS
125
AREA
5006
HEIGHT
2896
18-Dec-2023
10:16
linh
pham



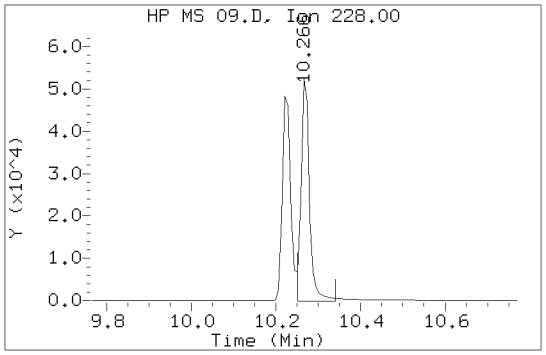
Chrysene (218-01-9)

Reason Code:

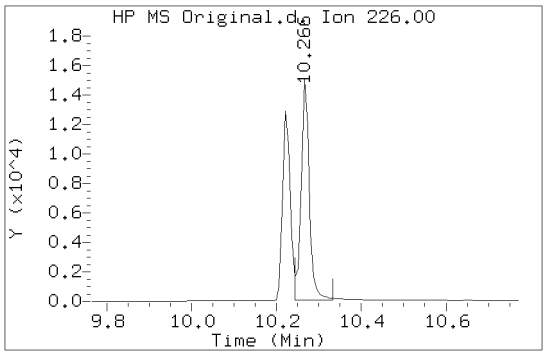
BEFORE
MASS
228
AREA
74306
HEIGHT
52462
18-Dec-2023
10:16
linh
pham



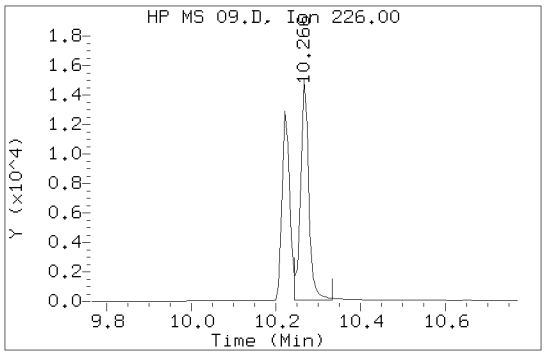
AFTER
MASS
228
AREA
74306
HEIGHT
52462
18-Dec-2023
10:16
linh
pham



BEFORE
MASS
226
AREA
20815
HEIGHT
14976
18-Dec-2023
10:16
linh
pham



AFTER
MASS
226
AREA
20815
HEIGHT
14976
18-Dec-2023
10:16
linh
pham



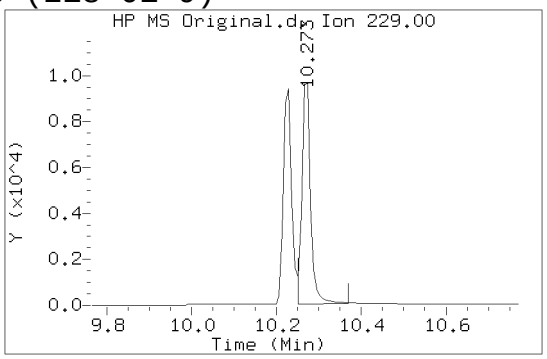
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\09.D
Inj Date : 12-DEC-2023 15:39
InstruID : SV6.i
LabSampID : PAHSIM-0.20

Chrysene (218-01-9)

Reason Code:

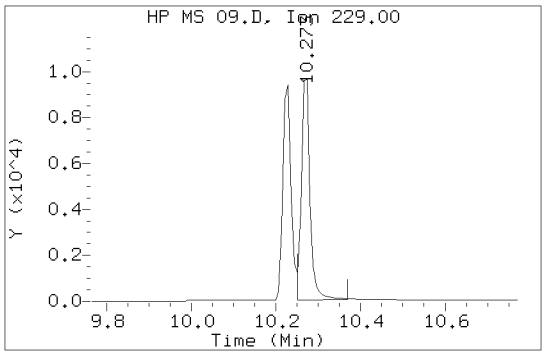
BEFORE

MASS
229
AREA
14264
HEIGHT
9593
18-Dec-2023
10:16
linh
pham



AFTER

MASS
229
AREA
14264
HEIGHT
9593
18-Dec-2023
10:16
linh
pham

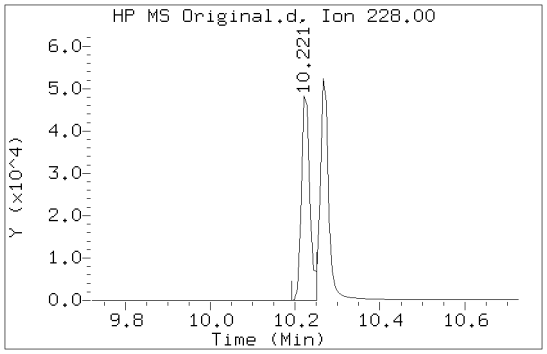


Benzo(a)Anthracene (56-55-3)

Reason Code:

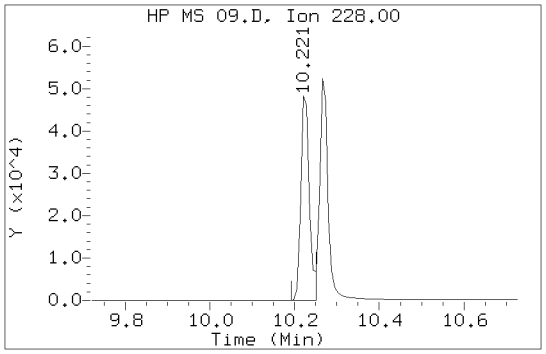
BEFORE

MASS
228
AREA
67102
HEIGHT
48245
18-Dec-2023
10:16
linh
pham



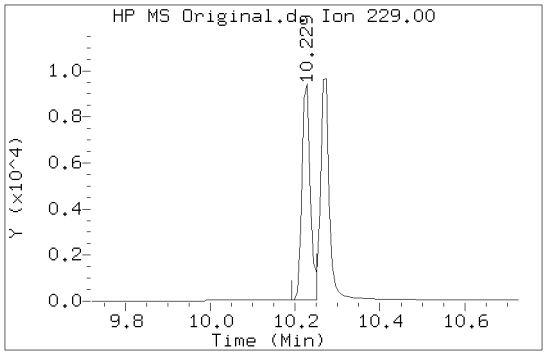
AFTER

MASS
228
AREA
67102
HEIGHT
48245
18-Dec-2023
10:16
linh
pham



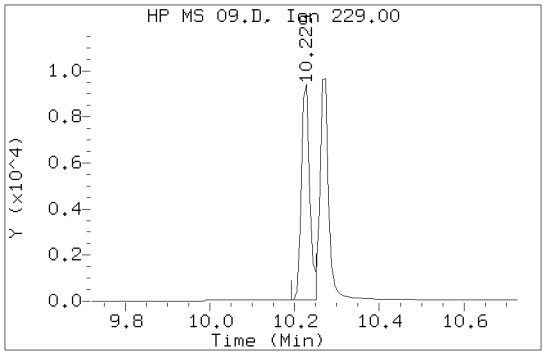
BEFORE

MASS
229
AREA
12851
HEIGHT
9394
18-Dec-2023
10:16
linh
pham



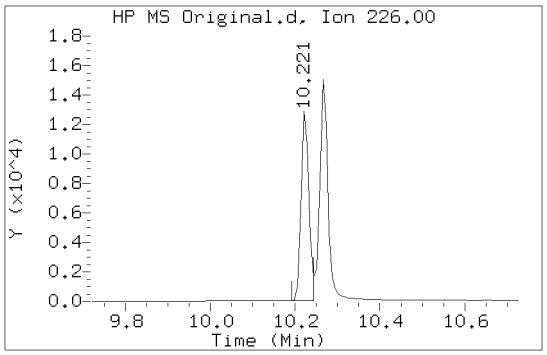
AFTER

MASS
229
AREA
12851
HEIGHT
9394
18-Dec-2023
10:16
linh
pham



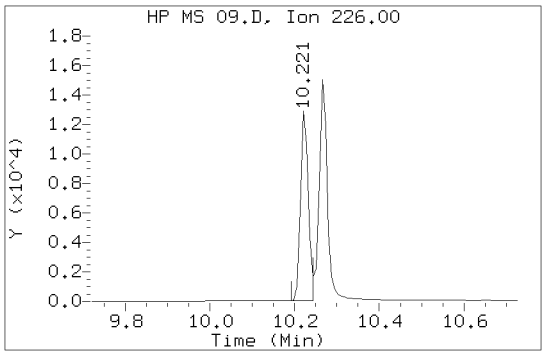
BEFORE

MASS
226
AREA
16283
HEIGHT
12886
18-Dec-2023
10:16
linh
pham



AFTER

MASS
226
AREA
16283
HEIGHT
12886
18-Dec-2023
10:16
linh
pham



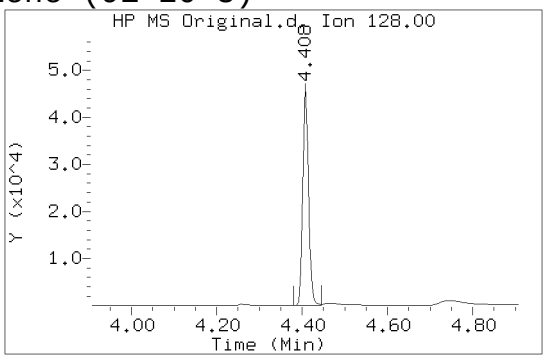
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\09.D
Inj Date : 12-DEC-2023 15:39
InstruID : SV6.i
LabSampID : PAHSIM-0.20

Naphthalene (91-20-3)

Reason Code:

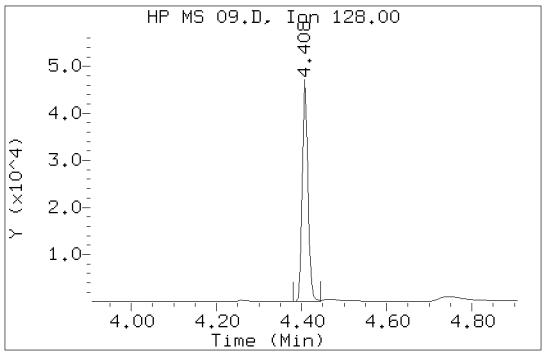
BEFORE

MASS
128
AREA
44126
HEIGHT
47089
18-Dec-2023
10:16
linh
pham



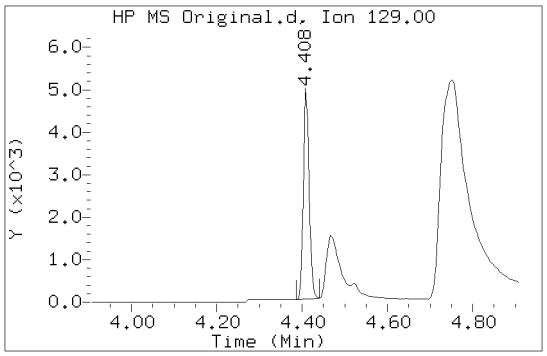
AFTER

MASS
128
AREA
44126
HEIGHT
47089
18-Dec-2023
10:16
linh
pham



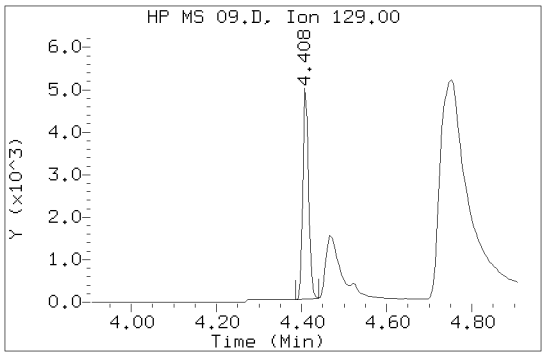
BEFORE

MASS
129
AREA
4723
HEIGHT
4969
18-Dec-2023
10:16
linh
pham



AFTER

MASS
129
AREA
4723
HEIGHT
4969
18-Dec-2023
10:16
linh
pham

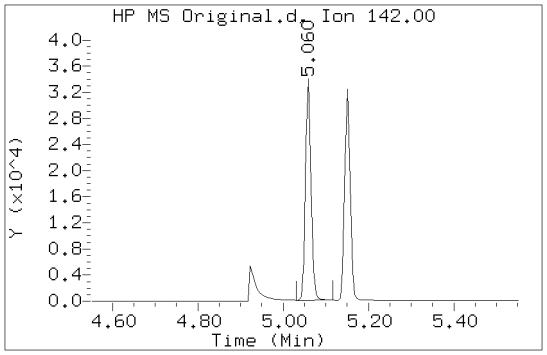


2-Methylnaphthalene (91-57-6)

Reason Code:

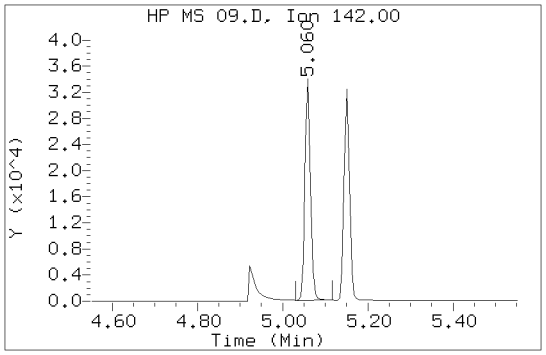
BEFORE

MASS
142
AREA
30275
HEIGHT
33892
18-Dec-2023
10:16
linh
pham



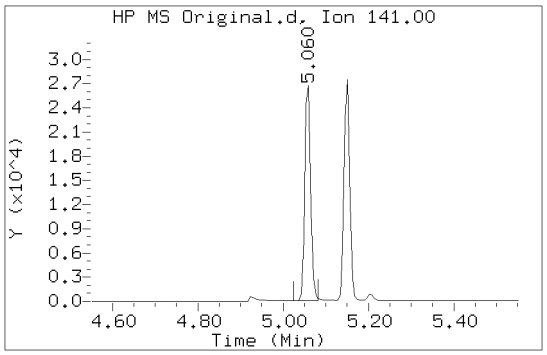
AFTER

MASS
142
AREA
30275
HEIGHT
33892
18-Dec-2023
10:16
linh
pham



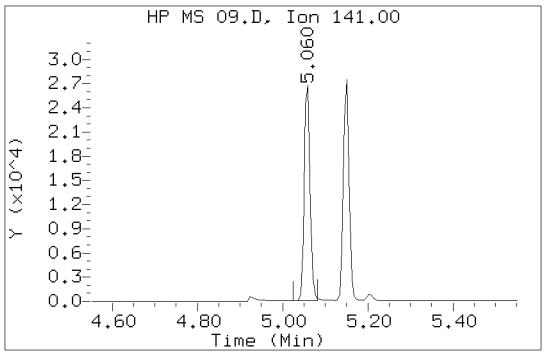
BEFORE

MASS
141
AREA
25610
HEIGHT
26726
18-Dec-2023
10:16
linh
pham



AFTER

MASS
141
AREA
25610
HEIGHT
26726
18-Dec-2023
10:16
linh
pham



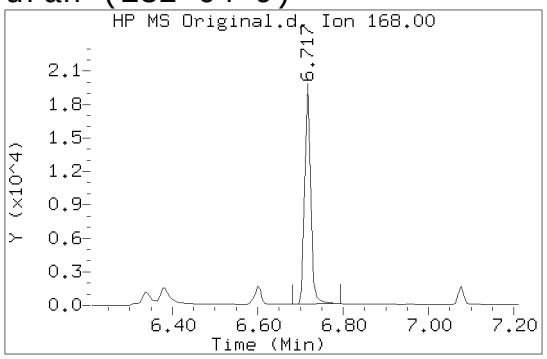
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\09.D
Inj Date : 12-DEC-2023 15:39
InstruID : SV6.i
LabSampID : PAHSIM-0.20

Dibenzofuran (132-64-9)

Reason Code:

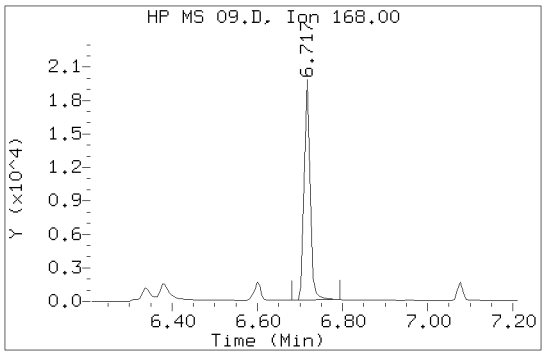
BEFORE

MASS
168
AREA
18738
HEIGHT
19747
18-Dec-2023
10:16
linh
pham



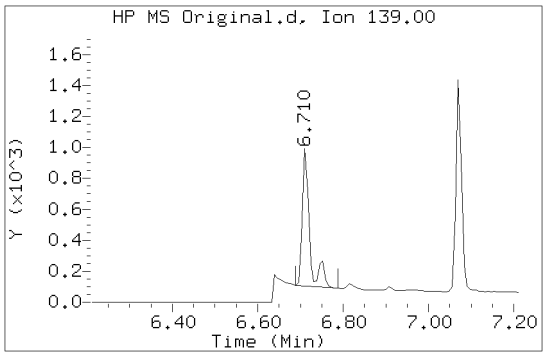
AFTER

MASS
168
AREA
18738
HEIGHT
19747
18-Dec-2023
10:16
linh
pham



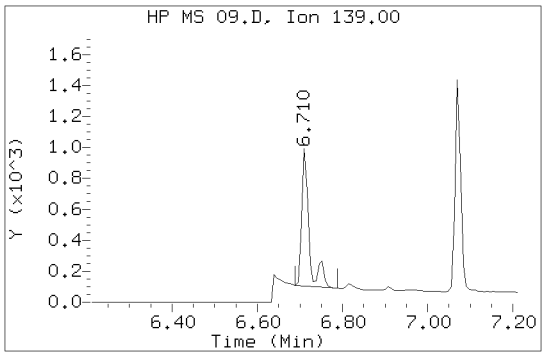
BEFORE

MASS
139
AREA
1040
HEIGHT
891
18-Dec-2023
10:16
linh
pham



AFTER

MASS
139
AREA
1040
HEIGHT
891
18-Dec-2023
10:16
linh
pham

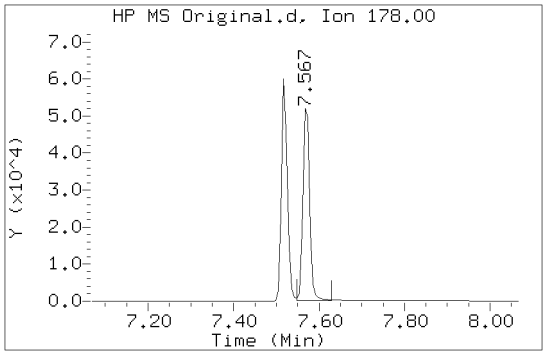


Anthracene (120-12-7)

Reason Code:

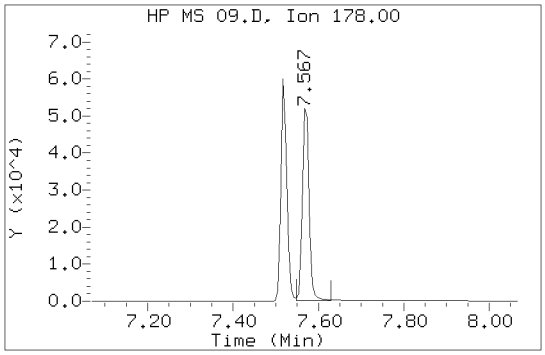
BEFORE

MASS
178
AREA
56240
HEIGHT
51854
18-Dec-2023
10:16
linh
pham



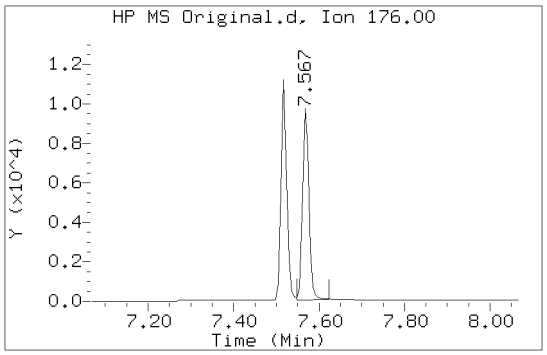
AFTER

MASS
178
AREA
56240
HEIGHT
51854
18-Dec-2023
10:16
linh
pham



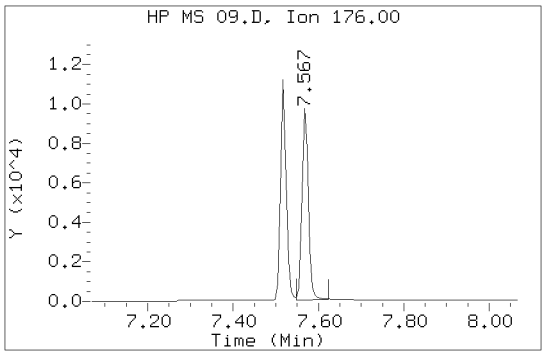
BEFORE

MASS
176
AREA
9794
HEIGHT
9685
18-Dec-2023
10:16
linh
pham



AFTER

MASS
176
AREA
9794
HEIGHT
9685
18-Dec-2023
10:16
linh
pham



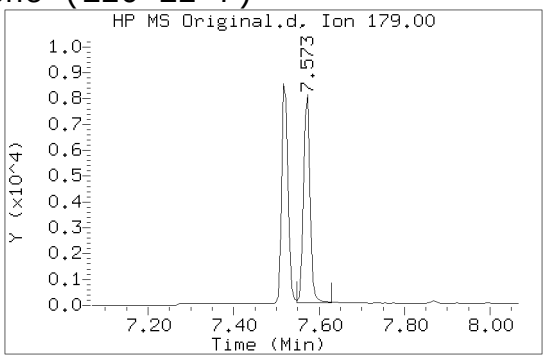
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\09.D
Inj Date : 12-DEC-2023 15:39
InstruID : SV6.i
LabSampID : PAHSIM-0.20

Anthracene (120-12-7)

Reason Code:

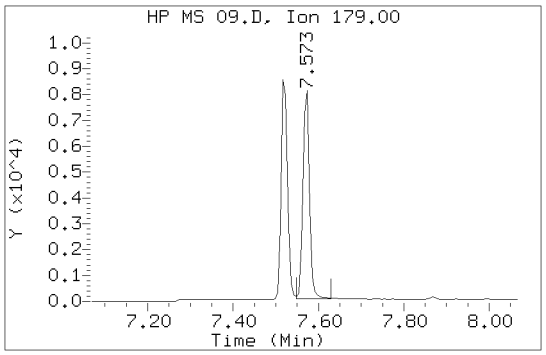
BEFORE

MASS
179
AREA
8519
HEIGHT
8067
18-Dec-2023
10:16
linh
pham



AFTER

MASS
179
AREA
8519
HEIGHT
8067
18-Dec-2023
10:16
linh
pham

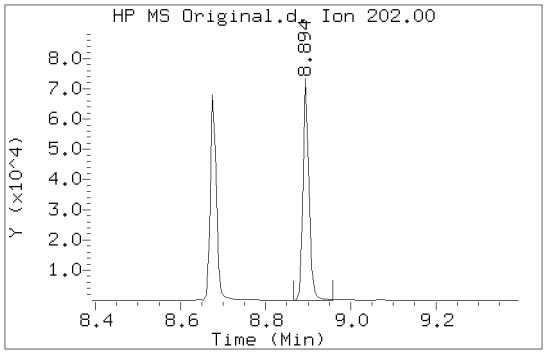


Pyrene (129-00-0)

Reason Code:

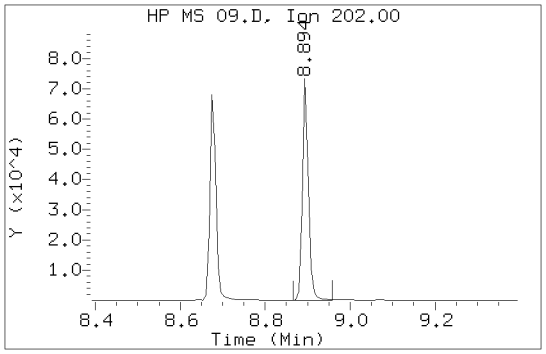
BEFORE

MASS
202
AREA
71204
HEIGHT
73233
18-Dec-2023
10:16
linh
pham



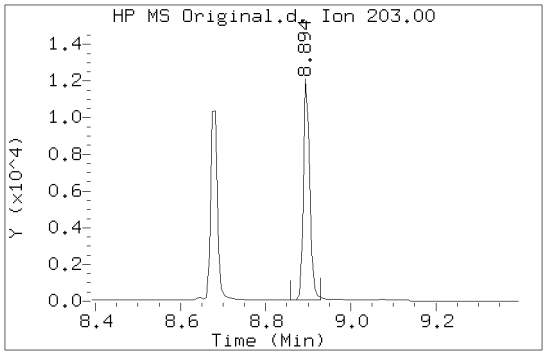
AFTER

MASS
202
AREA
71204
HEIGHT
73233
18-Dec-2023
10:16
linh
pham



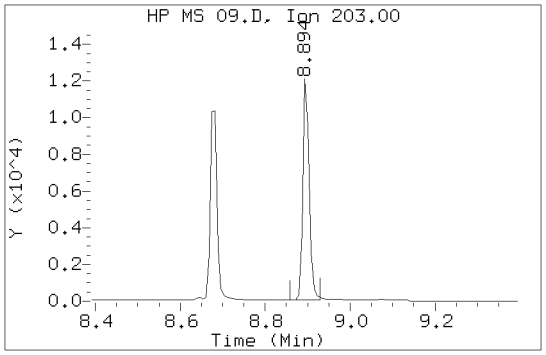
BEFORE

MASS
203
AREA
12346
HEIGHT
12049
18-Dec-2023
10:16
linh
pham



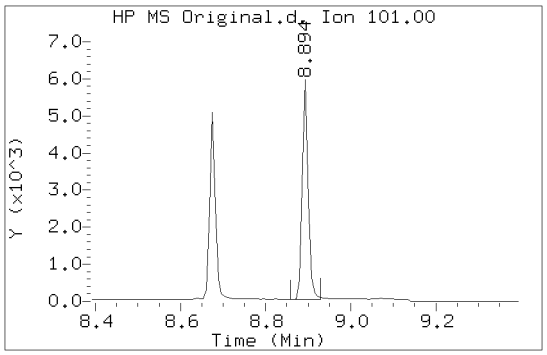
AFTER

MASS
203
AREA
12346
HEIGHT
12049
18-Dec-2023
10:16
linh
pham



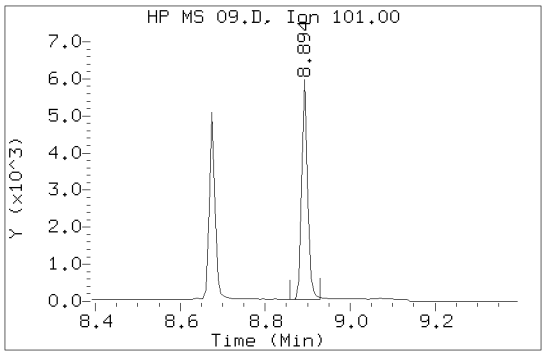
BEFORE

MASS
101
AREA
5784
HEIGHT
5919
18-Dec-2023
10:16
linh
pham



AFTER

MASS
101
AREA
5784
HEIGHT
5919
18-Dec-2023
10:16
linh
pham



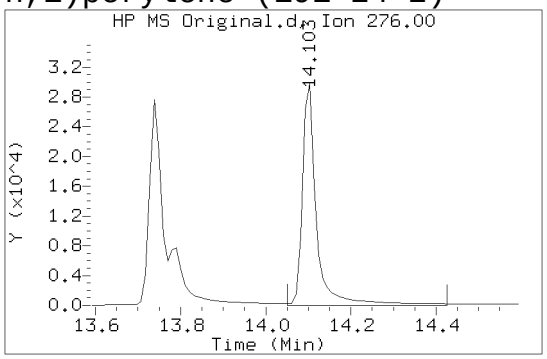
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\09.D
Inj Date : 12-DEC-2023 15:39
InstruID : SV6.i
LabSampID : PAHSIM-0.20

Benzo(g,h,i)perylene (191-24-2)

Reason Code:

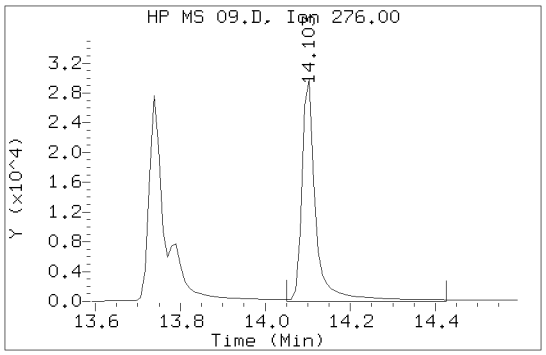
BEFORE

MASS
276
AREA
68404
HEIGHT
29782
18-Dec-2023
10:16
linh
pham



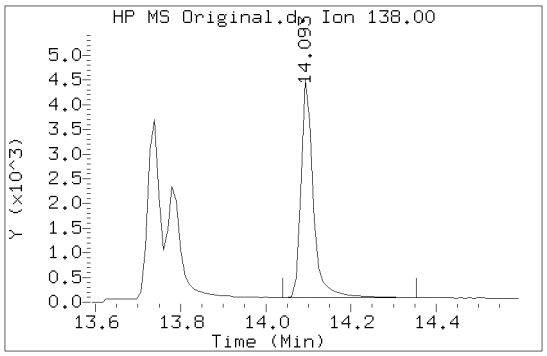
AFTER

MASS
276
AREA
68404
HEIGHT
29782
18-Dec-2023
10:16
linh
pham



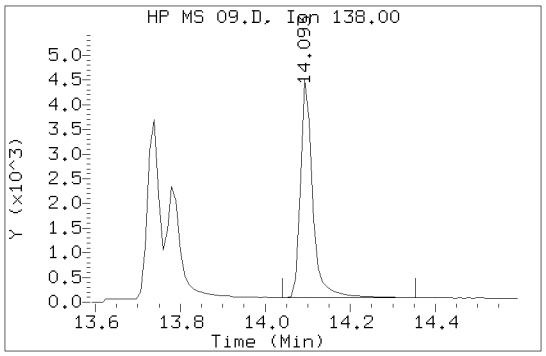
BEFORE

MASS
138
AREA
8729
HEIGHT
4411
18-Dec-2023
10:16
linh
pham



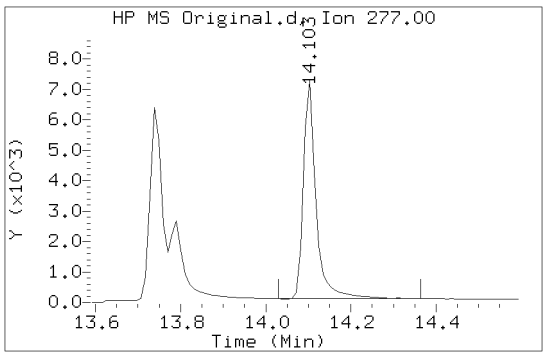
AFTER

MASS
138
AREA
8729
HEIGHT
4411
18-Dec-2023
10:16
linh
pham



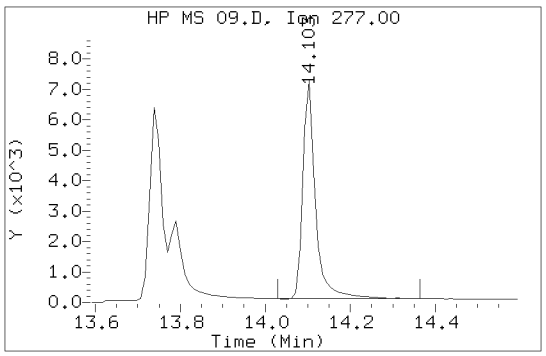
BEFORE

MASS
277
AREA
14756
HEIGHT
7165
18-Dec-2023
10:16
linh
pham



AFTER

MASS
277
AREA
14756
HEIGHT
7165
18-Dec-2023
10:16
linh
pham

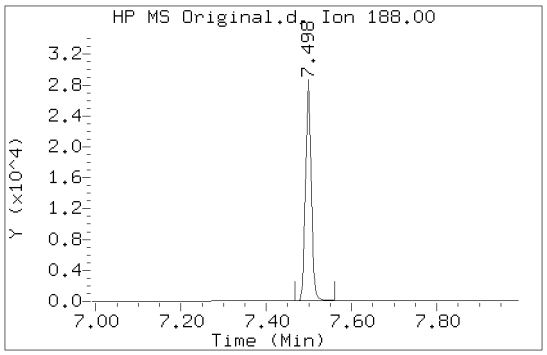


Phenanthrene-d10 (1517-22-2)

Reason Code:

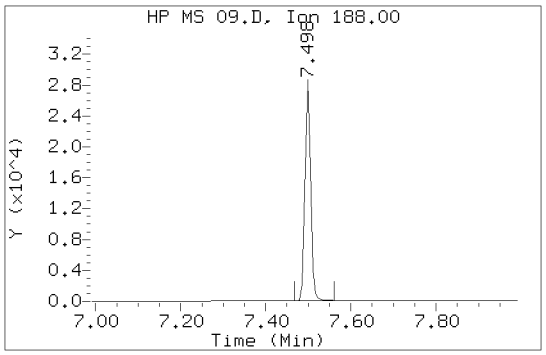
BEFORE

MASS
188
AREA
25613
HEIGHT
28649
18-Dec-2023
10:16
linh
pham



AFTER

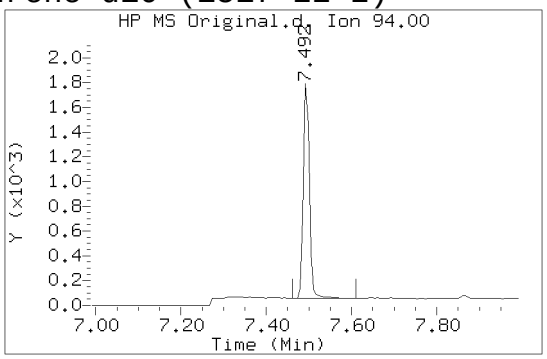
MASS
188
AREA
25613
HEIGHT
28649
18-Dec-2023
10:16
linh
pham



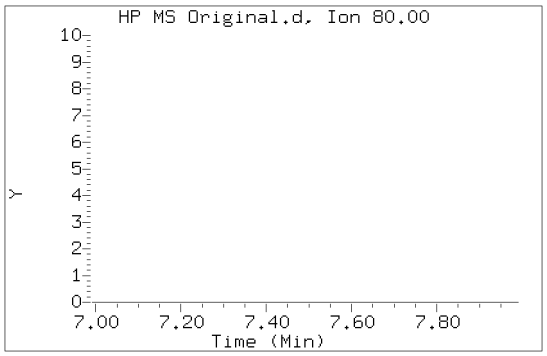
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Inj Date : 12-DEC-2023 15:39
InstruID : SV6.i
LabSampID : PAHSIM-0.20

Phenanthrene-d10 (1517-22-2)

BEFORE
MASS
94
AREA
1646
HEIGHT
1732
18-Dec-2023
10:16
linh
pham

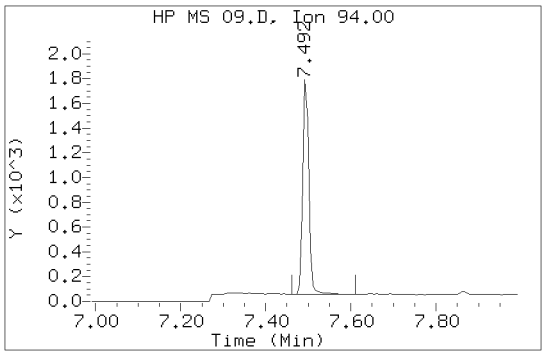


BEFORE
MASS
80
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham

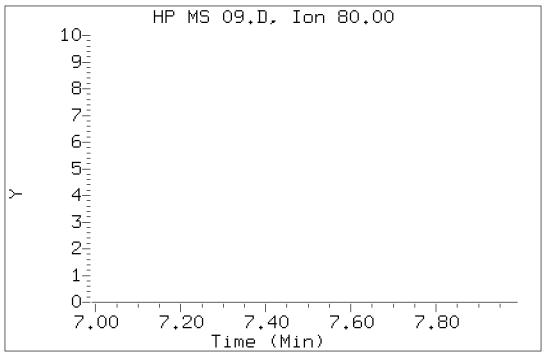


Reason Code:

AFTER
MASS
94
AREA
1646
HEIGHT
1732
18-Dec-2023
10:16
linh
pham

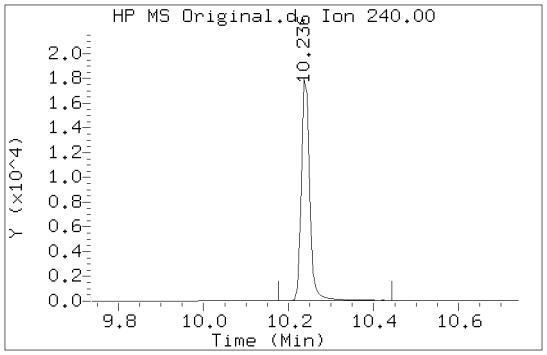


AFTER
MASS
80
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham

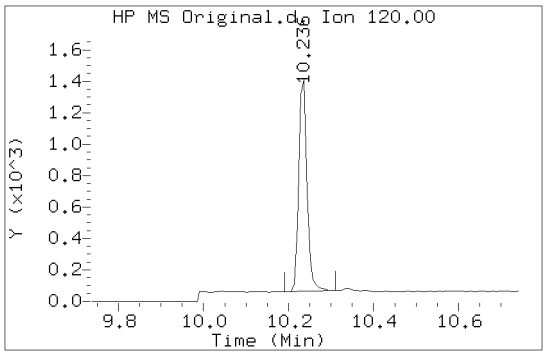


Chrysene-d12 (1719-03-5)

BEFORE
MASS
240
AREA
24600
HEIGHT
17904
18-Dec-2023
10:16
linh
pham

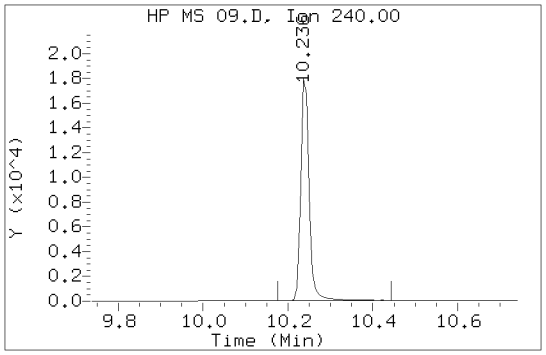


BEFORE
MASS
120
AREA
1798
HEIGHT
1344
18-Dec-2023
10:16
linh
pham

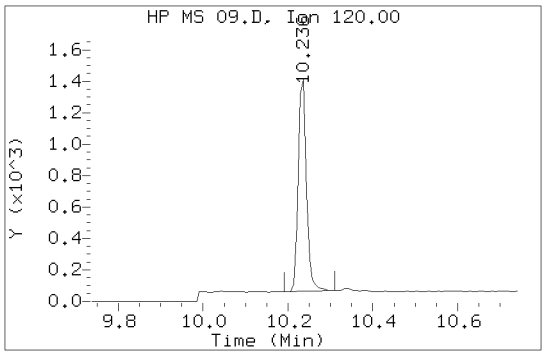


Reason Code:

AFTER
MASS
240
AREA
24600
HEIGHT
17904
18-Dec-2023
10:16
linh
pham



AFTER
MASS
120
AREA
1798
HEIGHT
1344
18-Dec-2023
10:16
linh
pham



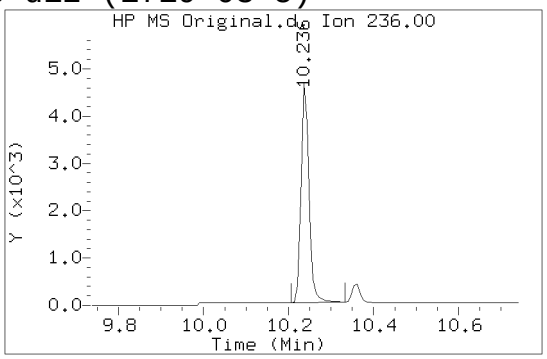
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Inj Date : 12-DEC-2023 15:39
InstruID : SV6.i
LabSampID : PAHSIM-0.20

Chrysene-d12 (1719-03-5)

Reason Code:

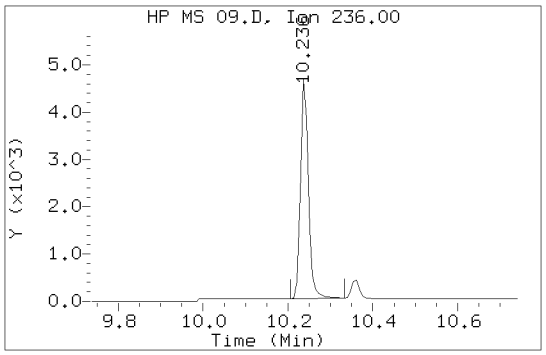
BEFORE

MASS
236
AREA
5994
HEIGHT
4630
18-Dec-2023
10:16
linh
pham



AFTER

MASS
236
AREA
5994
HEIGHT
4630
18-Dec-2023
10:16
linh
pham

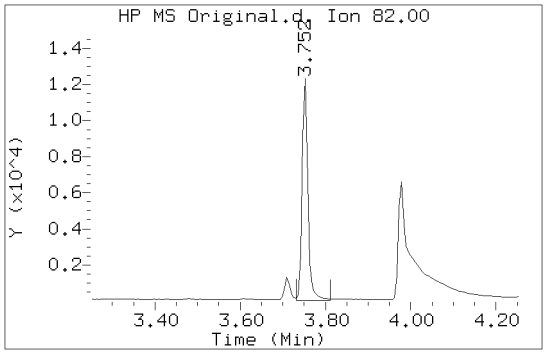


Nitrobenzene-d5 (4165-60-0)

Reason Code:

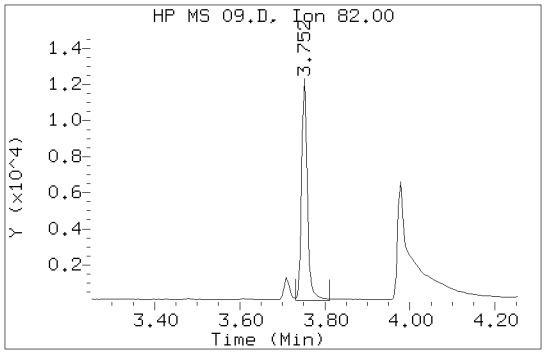
BEFORE

MASS
82
AREA
11339
HEIGHT
12271
18-Dec-2023
10:16
linh
pham



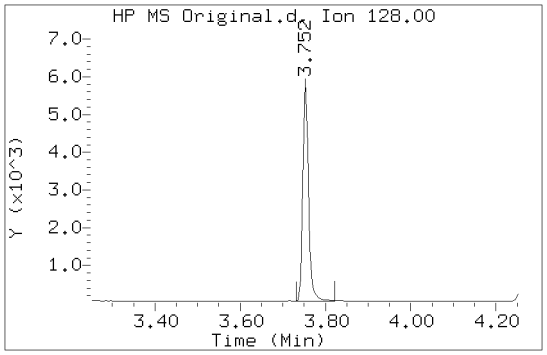
AFTER

MASS
82
AREA
11339
HEIGHT
12271
18-Dec-2023
10:16
linh
pham



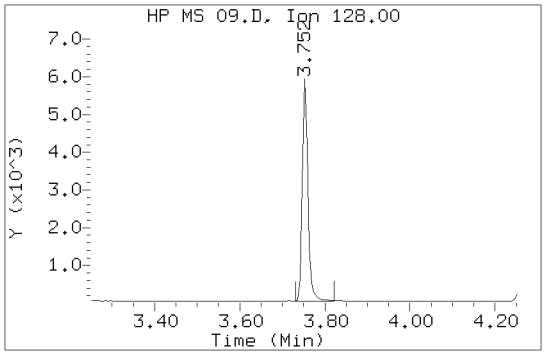
BEFORE

MASS
128
AREA
5249
HEIGHT
5890
18-Dec-2023
10:16
linh
pham



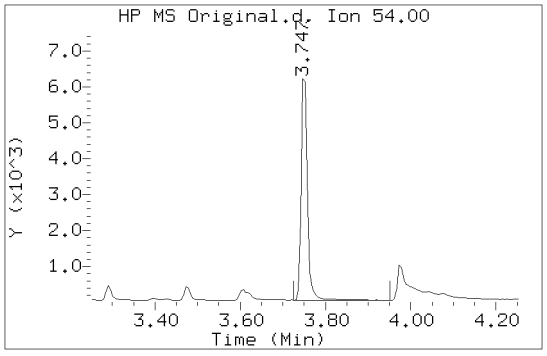
AFTER

MASS
128
AREA
5249
HEIGHT
5890
18-Dec-2023
10:16
linh
pham



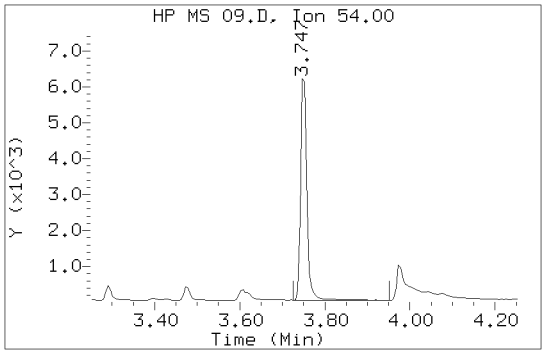
BEFORE

MASS
54
AREA
6228
HEIGHT
6166
18-Dec-2023
10:16
linh
pham



AFTER

MASS
54
AREA
6228
HEIGHT
6166
18-Dec-2023
10:16
linh
pham



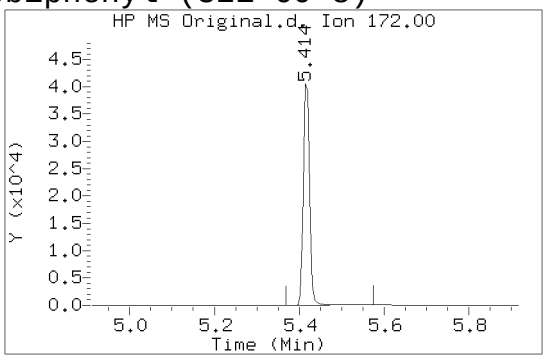
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\09.D
Inj Date : 12-DEC-2023 15:39
InstruID : SV6.i
LabSampID : PAHSIM-0.20

2-Fluorobiphenyl (321-60-8)

Reason Code:

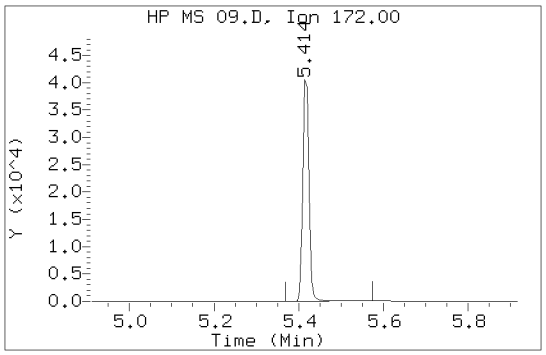
BEFORE

MASS
172
AREA
40079
HEIGHT
40484
18-Dec-2023
10:16
linh
pham



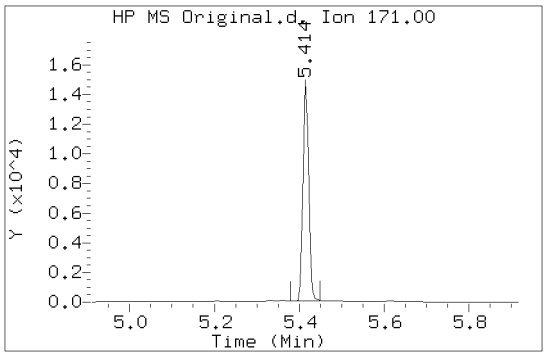
AFTER

MASS
172
AREA
40079
HEIGHT
40484
18-Dec-2023
10:16
linh
pham



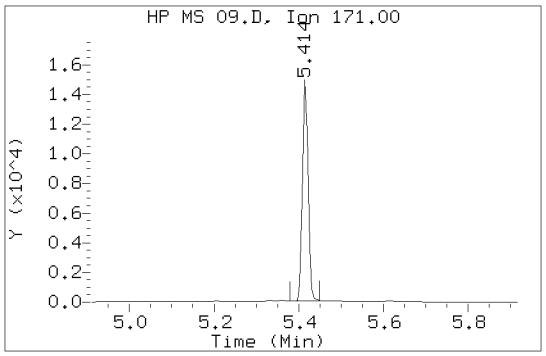
BEFORE

MASS
171
AREA
13405
HEIGHT
14904
18-Dec-2023
10:16
linh
pham



AFTER

MASS
171
AREA
13405
HEIGHT
14904
18-Dec-2023
10:16
linh
pham

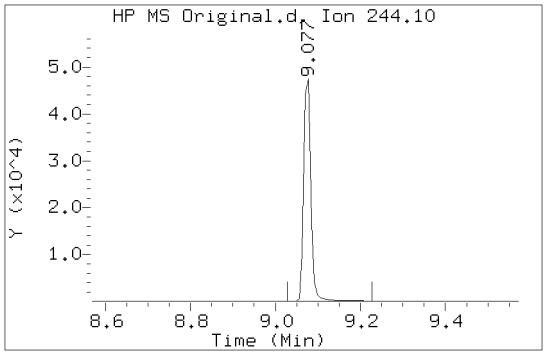


4-Terphenyl-d14 (1718-51-0)

Reason Code:

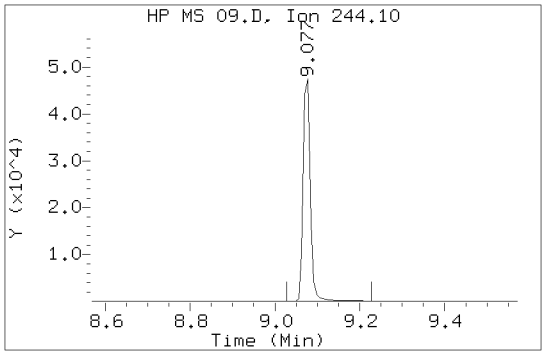
BEFORE

MASS
244.1
AREA
47723
HEIGHT
47403
18-Dec-2023
10:16
linh
pham



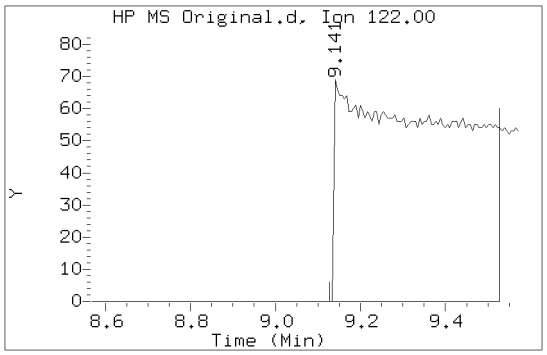
AFTER

MASS
244.1
AREA
47723
HEIGHT
47403
18-Dec-2023
10:16
linh
pham



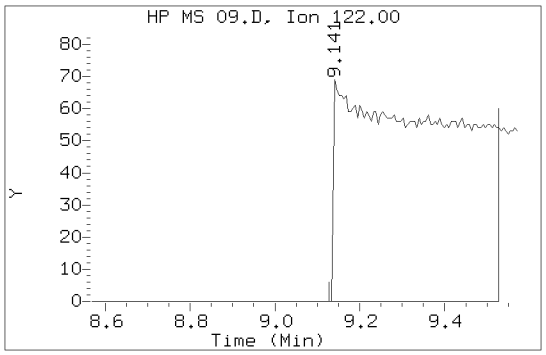
BEFORE

MASS
122
AREA
1351
HEIGHT
69
18-Dec-2023
10:16
linh
pham



AFTER

MASS
122
AREA
1351
HEIGHT
69
18-Dec-2023
10:16
linh
pham



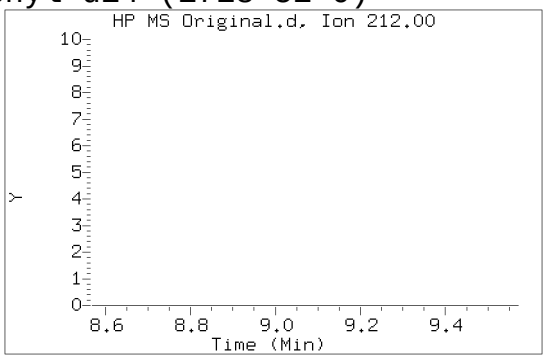
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Inj Date : 12-DEC-2023 15:39
InstruID : SV6.i
LabSampID : PAHSIM-0.20

4-Terphenyl-d14 (1718-51-0)

Reason Code:

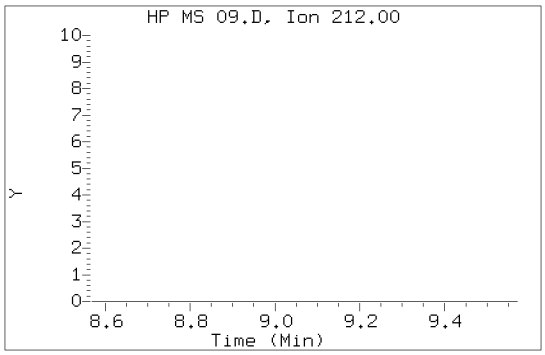
BEFORE

MASS
212
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
212
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\231212.b\10.D
Lab Smp Id: PAHSIM-0.50 Client Smp ID: PAHSIM-0.50
Inj Date : 12-DEC-2023 15:59
Operator : LG Inst ID: SV6.i
Smp Info : PAHSIM-0.50
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\231212.b\PAHSIM1.m
Meth Date : 18-Dec-2023 10:17 SV6.i Quant Type: ISTD
Cal Date : 12-DEC-2023 15:39 Cal File: 09.D
Als bottle: 10 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: llpahdbf.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 45 Naphthalene-d8	136	4.391	4.391	(1.000)	22630	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.752	3.752	(0.854)	31571	0.50000	0.5059(AM)
* 86 Acenaphthene-d10	164	6.058	6.058	(1.000)	14197	0.10000	
$ 69 2-Fluorobiphenyl	172	5.413	5.413	(0.894)	110011	0.50000	0.4866(AM)
* 126 Phenanthrene-d10	188	7.493	7.493	(1.000)	29477	0.10000	
* 182 Chrysene-d12	240	10.237	10.237	(1.000)	28359	0.10000	
$ 158 4-Terphenyl-d14	244	9.071	9.071	(0.886)	140743	0.50000	0.4887(AM)
* 198 Perylene-d12	264	12.220	12.220	(1.000)	30143	0.10000	
46 Naphthalene	128	4.407	4.407	(1.031)	120220	0.50000	0.4842
61 2-Methylnaphthalene	142	5.053	5.053	(1.183)	83121	0.50000	0.5006(A)
62 1-Methylnaphthalene	142	5.150	5.150	(1.205)	77104	0.50000	0.4977
83 Acenaphthylene	152	5.910	5.910	(0.976)	130746	0.50000	0.5037(A)
88 Acenaphthene	154	6.080	6.080	(1.004)	79145	0.50000	0.4835
98 Fluorene	166	6.583	6.583	(1.087)	100064	0.50000	0.4973
92 Dibenzofuran	168	6.711	6.711	(1.108)	54352	0.50000	0.5122(AM)
128 Phenanthrene	178	7.518	7.518	(1.003)	158427	0.50000	0.4910
130 Anthracene	178	7.568	7.568	(1.010)	161208	0.50000	0.5014(AM)
149 Fluoranthene	202	8.676	8.676	(1.158)	192859	0.50000	0.5026(AM)
155 Pyrene	202	8.895	8.895	(0.869)	202802	0.50000	0.4919(M)

181 Benzo(a)Anthracene	228	10.222	10.222 (0.999)	192587	0.50000	0.5008(A)
183 Chrysene	228	10.267	10.267 (1.003)	210602	0.50000	0.4913(M)

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(NG)	(NG)
192 Benzo(b)fluoranthene	252	11.670	11.670	(0.955)	184151	0.50000	0.4922
195 Benzo(k)fluoranthene	252	11.714	11.714	(0.959)	228007	0.50000	0.5036(AM)
197 Benzo(a)pyrene	252	12.132	12.132	(0.993)	182895	0.50000	0.5043(AM)
209 Indeno(1,2,3-cd)pyrene	276	13.739	13.739	(1.124)	217277	0.50000	0.5007(AM)
210 Dibenzo(a,h)anthracene	278	13.791	13.791	(1.129)	180668	0.50000	0.5012(AM)
212 Benzo(g,h,i)perylene	276	14.094	14.094	(1.153)	183621	0.50000	0.4738(M)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\231212.b\10.D

Date : 12-DEC-2023 15:59

Client ID: PAHSIM-0.50

Instrument: SV6.i

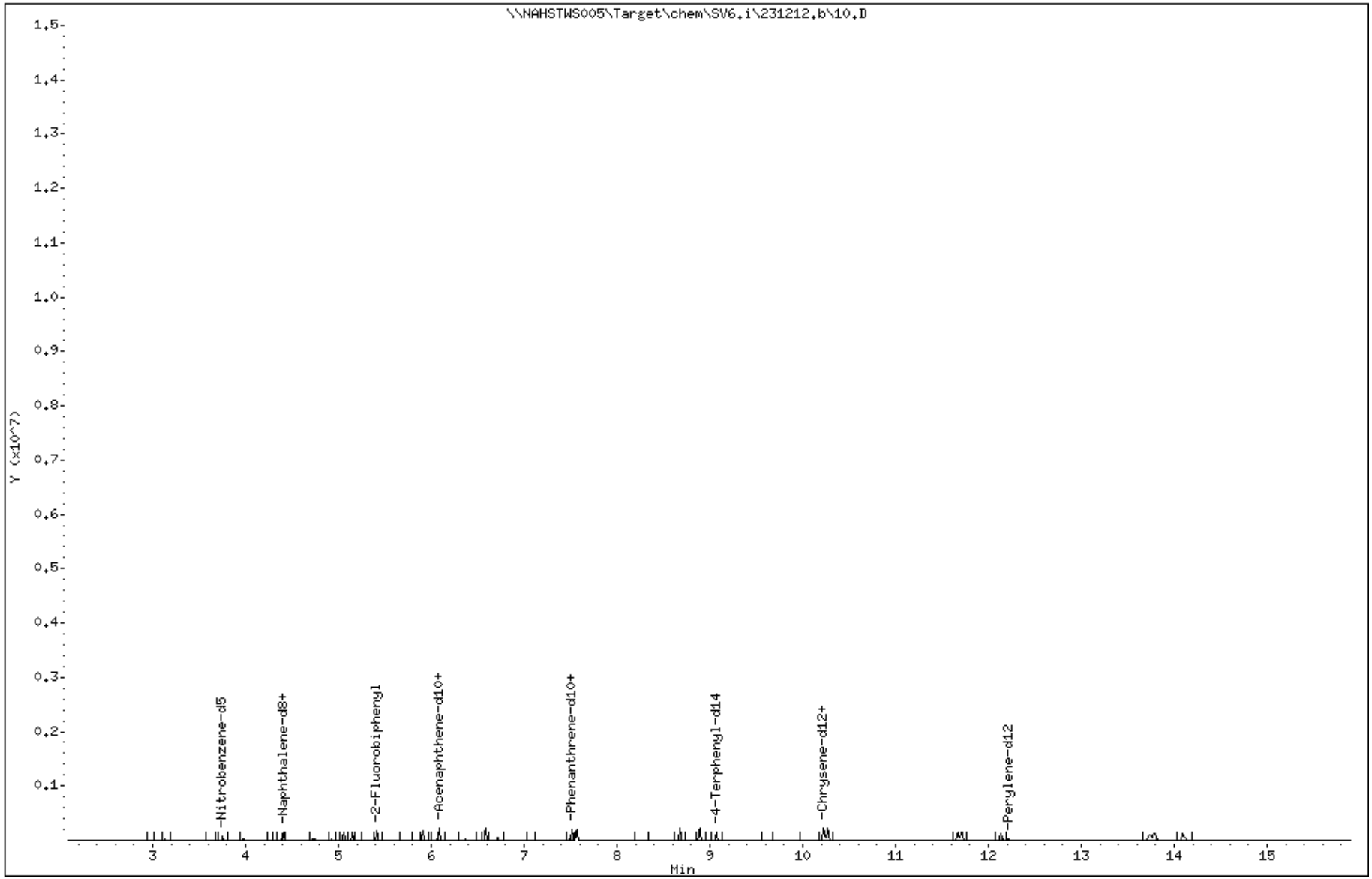
Sample Info: PAHSIM-0.50

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

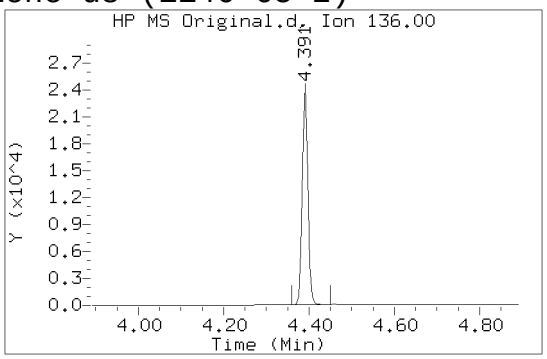


Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\10.D
Inj Date : 12-DEC-2023 15:59
InstruID : SV6.i
LabSampID : PAHSIM-0.50

Naphthalene-d8 (1146-65-2)

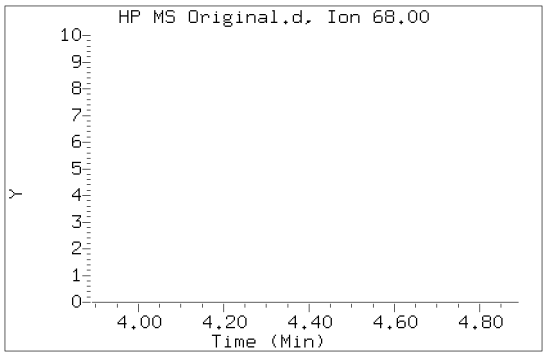
BEFORE

MASS
136
AREA
22630
HEIGHT
24658
18-Dec-2023
10:16
linh
pham



BEFORE

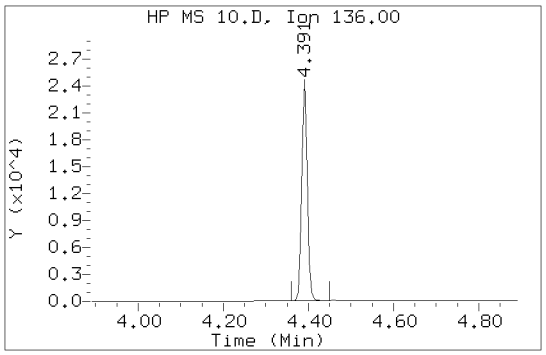
MASS
68
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



Reason Code:

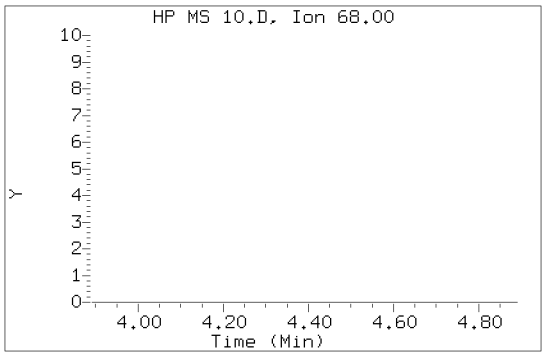
AFTER

MASS
136
AREA
22630
HEIGHT
24658
18-Dec-2023
10:16
linh
pham



AFTER

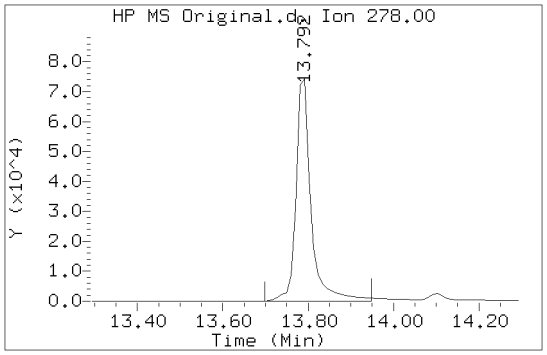
MASS
68
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



Dibenzo(a,h)anthracene (53-70-3)

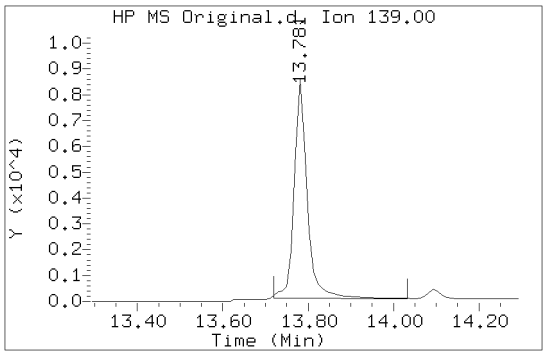
BEFORE

MASS
278
AREA
180668
HEIGHT
74252
18-Dec-2023
10:16
linh
pham



BEFORE

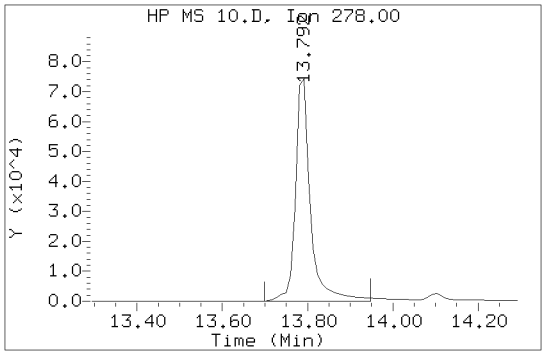
MASS
139
AREA
18114
HEIGHT
8475
18-Dec-2023
10:16
linh
pham



Reason Code:

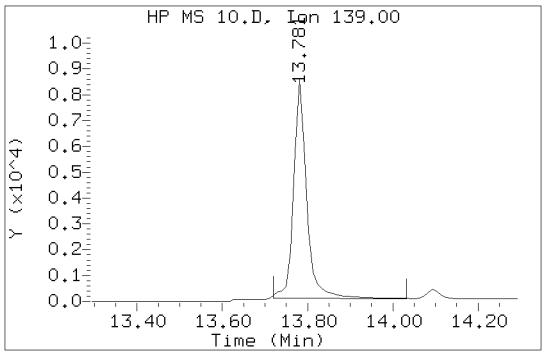
AFTER

MASS
278
AREA
180668
HEIGHT
74252
18-Dec-2023
10:16
linh
pham



AFTER

MASS
139
AREA
18114
HEIGHT
8475
18-Dec-2023
10:16
linh
pham



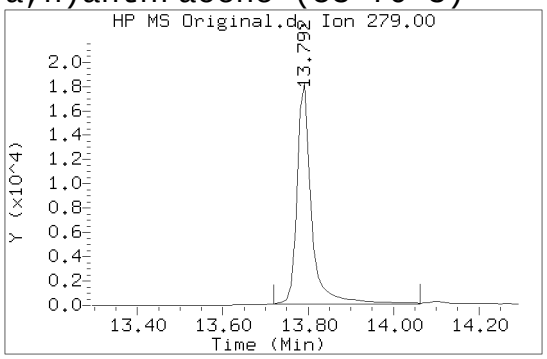
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Inj Date : 12-DEC-2023 15:59
InstruID : SV6.i
LabSampID : PAHSIM-0.50

Dibenzo(a,h)anthracene (53-70-3)

Reason Code:

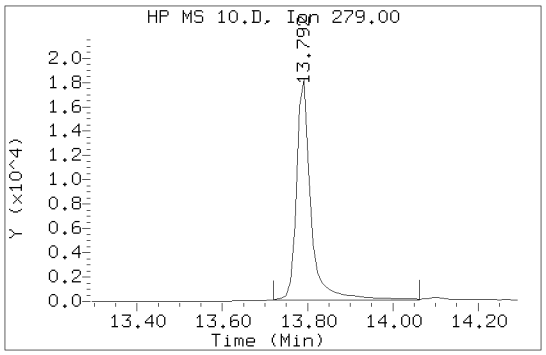
BEFORE

MASS
279
AREA
42443
HEIGHT
18124
18-Dec-2023
10:16
linh
pham



AFTER

MASS
279
AREA
42443
HEIGHT
18124
18-Dec-2023
10:16
linh
pham

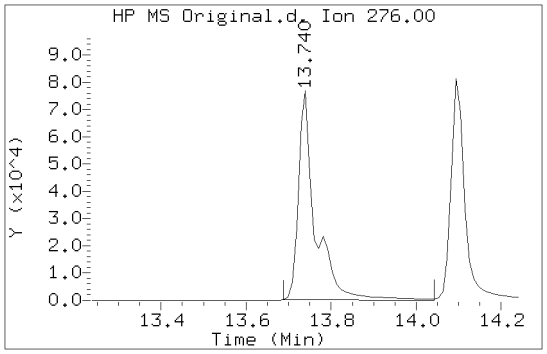


Indeno(1,2,3-cd)pyrene (193-39-5)

Reason Code:

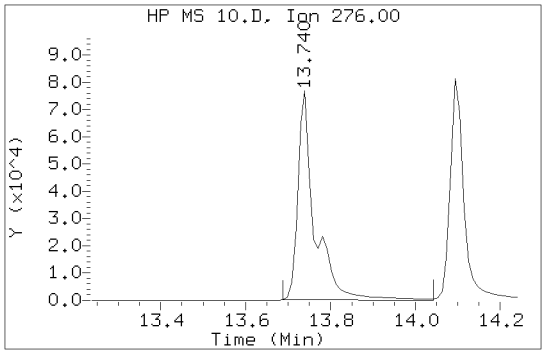
BEFORE

MASS
276
AREA
217277
HEIGHT
76840
18-Dec-2023
10:16
linh
pham



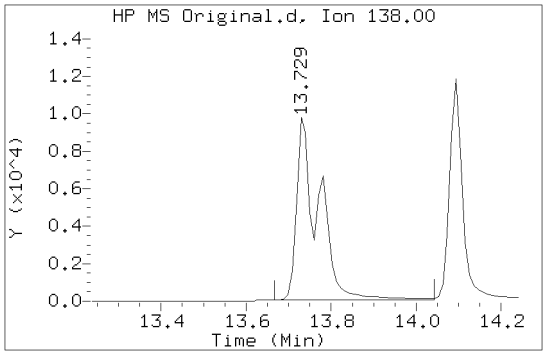
AFTER

MASS
276
AREA
217277
HEIGHT
76840
18-Dec-2023
10:16
linh
pham



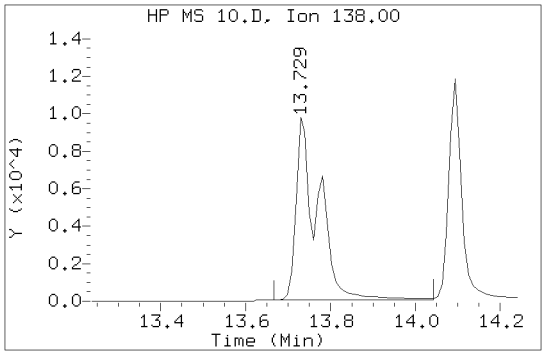
BEFORE

MASS
138
AREA
35678
HEIGHT
9739
18-Dec-2023
10:16
linh
pham



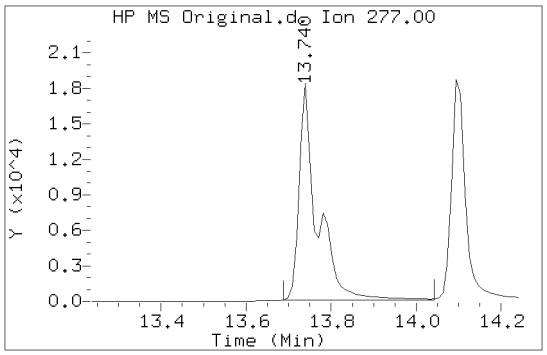
AFTER

MASS
138
AREA
35678
HEIGHT
9739
18-Dec-2023
10:16
linh
pham



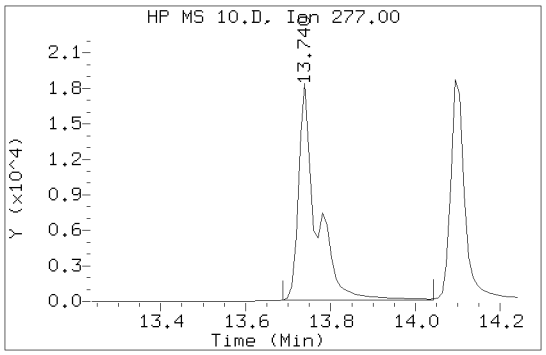
BEFORE

MASS
277
AREA
55424
HEIGHT
18321
18-Dec-2023
10:16
linh
pham



AFTER

MASS
277
AREA
55424
HEIGHT
18321
18-Dec-2023
10:16
linh
pham



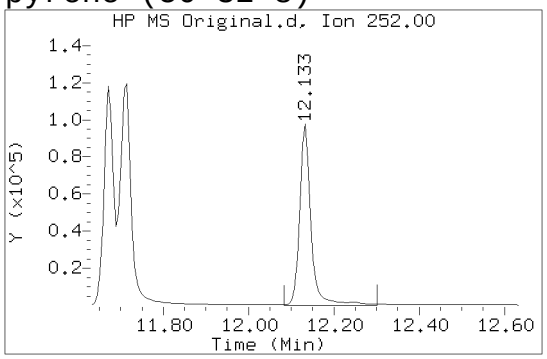
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\10.D
Inj Date : 12-DEC-2023 15:59
InstruID : SV6.i
LabSampID : PAHSIM-0.50

Benzo(a)pyrene (50-32-8)

Reason Code:

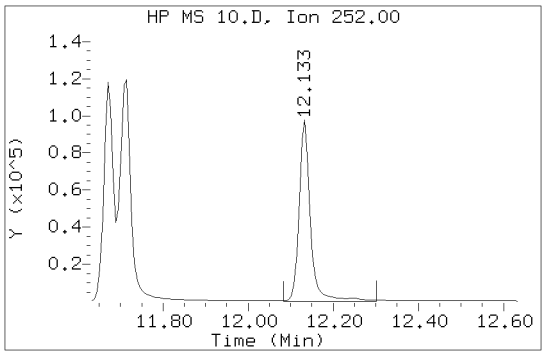
BEFORE

MASS
252
AREA
182895
HEIGHT
97759
18-Dec-2023
10:16
linh
pham



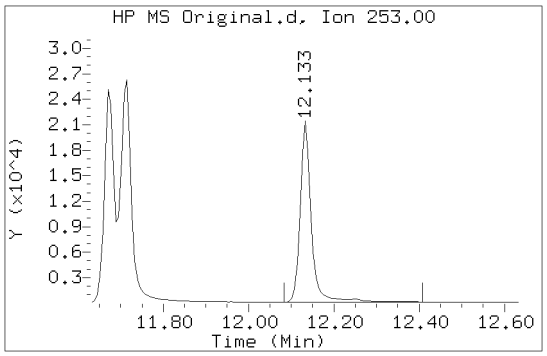
AFTER

MASS
252
AREA
182895
HEIGHT
97759
18-Dec-2023
10:16
linh
pham



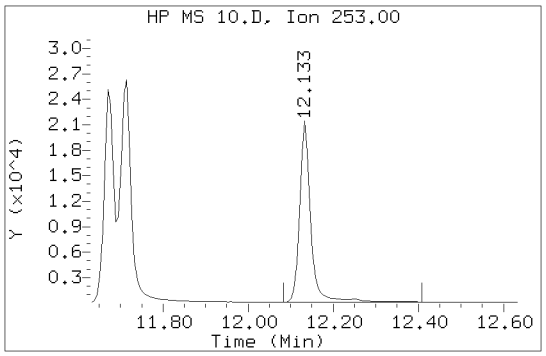
BEFORE

MASS
253
AREA
38846
HEIGHT
21301
18-Dec-2023
10:16
linh
pham



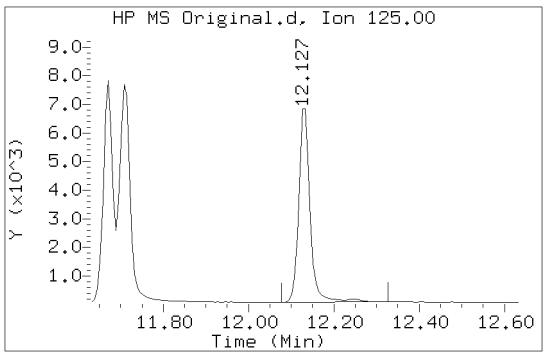
AFTER

MASS
253
AREA
38846
HEIGHT
21301
18-Dec-2023
10:16
linh
pham



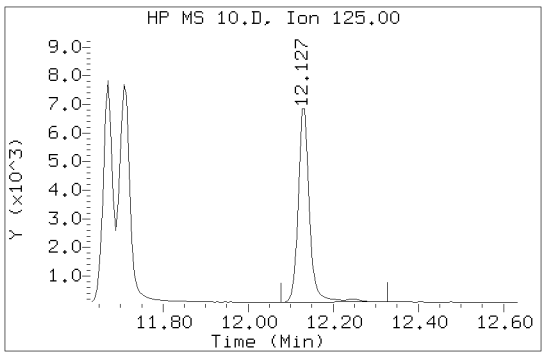
BEFORE

MASS
125
AREA
12592
HEIGHT
6754
18-Dec-2023
10:16
linh
pham



AFTER

MASS
125
AREA
12592
HEIGHT
6754
18-Dec-2023
10:16
linh
pham

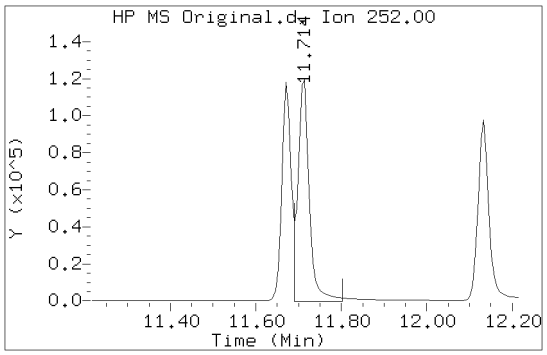


Benzo(k)fluoranthene (207-08-9)

Reason Code:

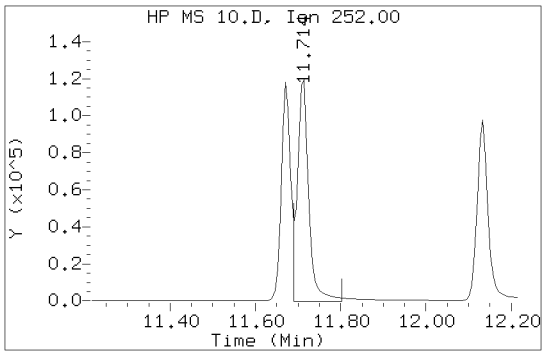
BEFORE

MASS
252
AREA
228007
HEIGHT
119657
18-Dec-2023
10:16
linh
pham



AFTER

MASS
252
AREA
228007
HEIGHT
119657
18-Dec-2023
10:16
linh
pham



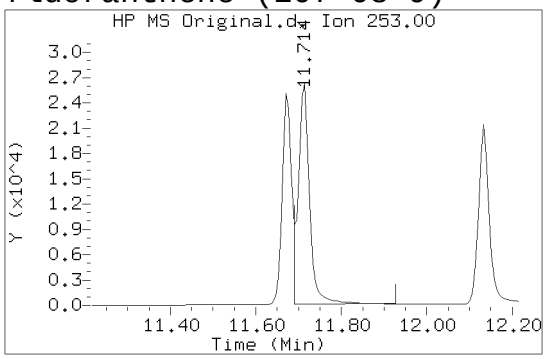
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\10.D
Inj Date : 12-DEC-2023 15:59
InstruID : SV6.i
LabSampID : PAHSIM-0.50

Benzo(k)fluoranthene (207-08-9)

Reason Code:

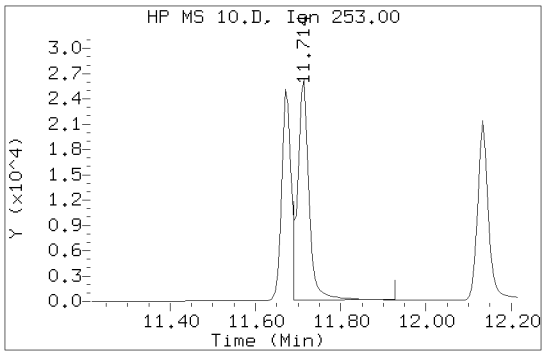
BEFORE

MASS
253
AREA
49284
HEIGHT
26133
18-Dec-2023
10:16
linh
pham



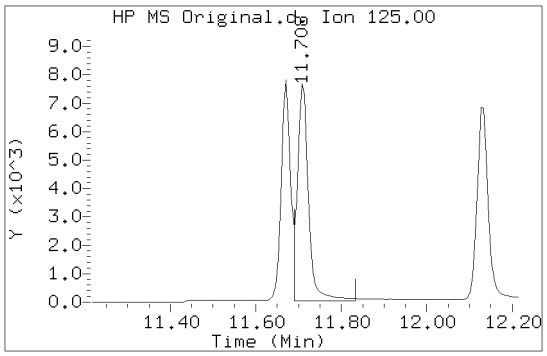
AFTER

MASS
253
AREA
49284
HEIGHT
26133
18-Dec-2023
10:16
linh
pham



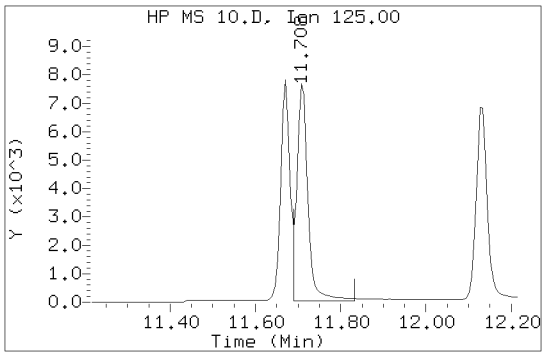
BEFORE

MASS
125
AREA
14142
HEIGHT
7646
18-Dec-2023
10:16
linh
pham



AFTER

MASS
125
AREA
14142
HEIGHT
7646
18-Dec-2023
10:16
linh
pham

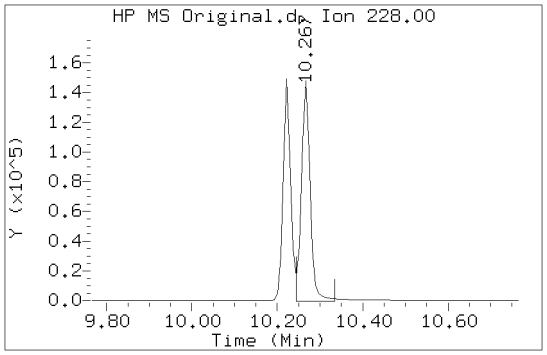


Chrysene (218-01-9)

Reason Code:

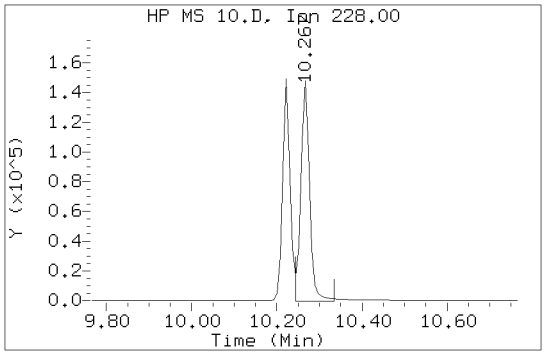
BEFORE

MASS
228
AREA
210602
HEIGHT
148295
18-Dec-2023
10:16
linh
pham



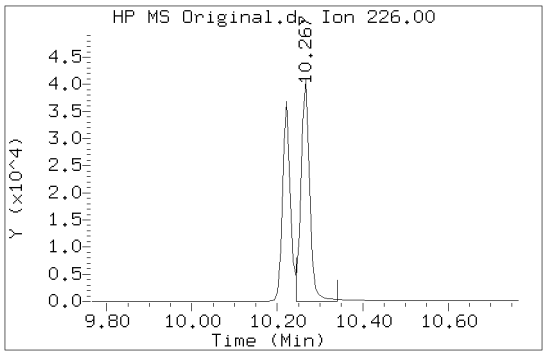
AFTER

MASS
228
AREA
210602
HEIGHT
148295
18-Dec-2023
10:16
linh
pham



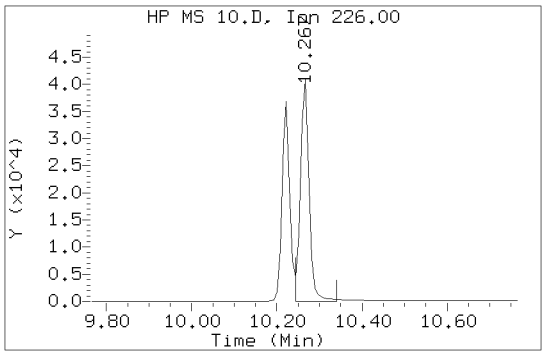
BEFORE

MASS
226
AREA
57456
HEIGHT
40793
18-Dec-2023
10:16
linh
pham



AFTER

MASS
226
AREA
57456
HEIGHT
40793
18-Dec-2023
10:16
linh
pham



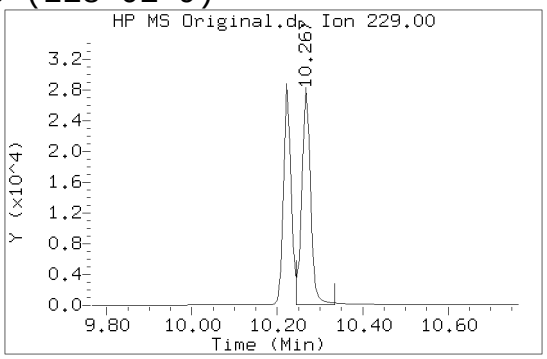
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Inj Date : 12-DEC-2023 15:59
InstruID : SV6.i
LabSampID : PAHSIM-0.50

Chrysene (218-01-9)

Reason Code:

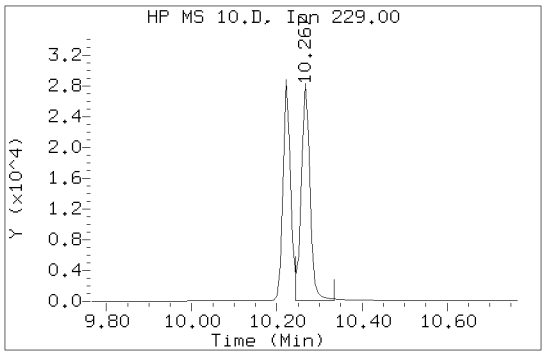
BEFORE

MASS
229
AREA
40267
HEIGHT
28218
18-Dec-2023
10:16
linh
pham



AFTER

MASS
229
AREA
40267
HEIGHT
28218
18-Dec-2023
10:16
linh
pham

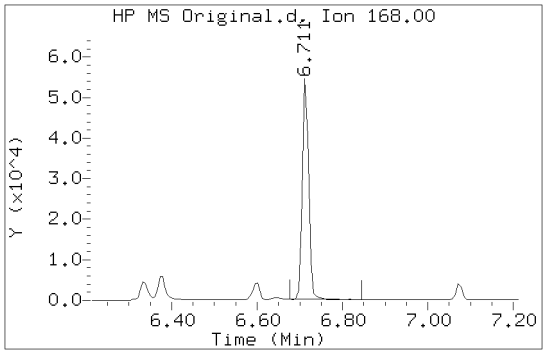


Dibenzofuran (132-64-9)

Reason Code:

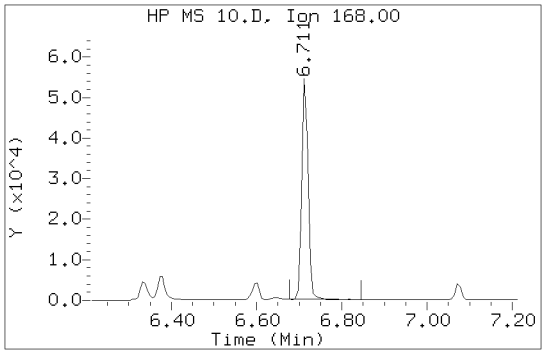
BEFORE

MASS
168
AREA
54352
HEIGHT
54390
18-Dec-2023
10:16
linh
pham



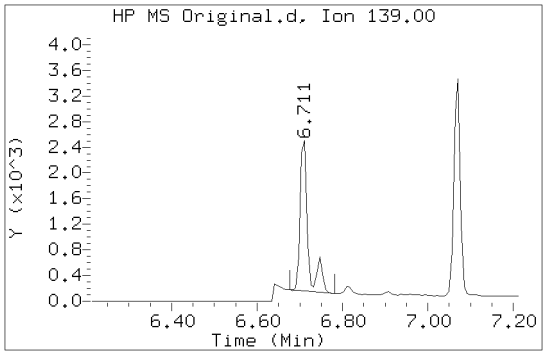
AFTER

MASS
168
AREA
54352
HEIGHT
54390
18-Dec-2023
10:16
linh
pham



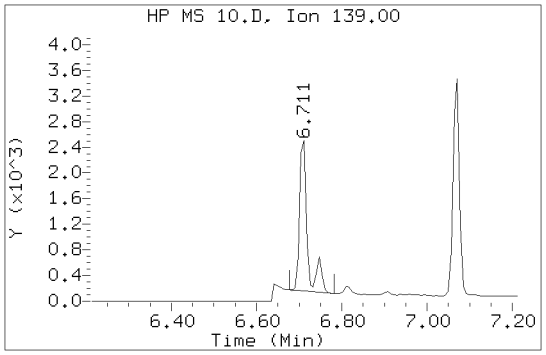
BEFORE

MASS
139
AREA
2985
HEIGHT
2340
18-Dec-2023
10:16
linh
pham



AFTER

MASS
139
AREA
2985
HEIGHT
2340
18-Dec-2023
10:16
linh
pham

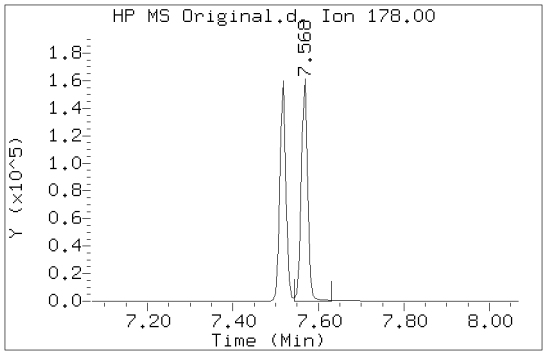


Anthracene (120-12-7)

Reason Code:

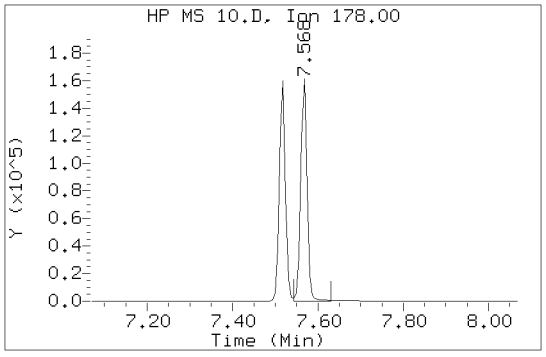
BEFORE

MASS
178
AREA
161208
HEIGHT
161236
18-Dec-2023
10:16
linh
pham



AFTER

MASS
178
AREA
161208
HEIGHT
161236
18-Dec-2023
10:16
linh
pham



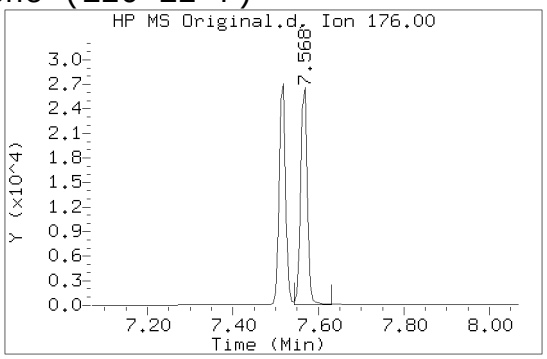
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\10.D
Inj Date : 12-DEC-2023 15:59
InstruID : SV6.i
LabSampID : PAHSIM-0.50

Anthracene (120-12-7)

Reason Code:

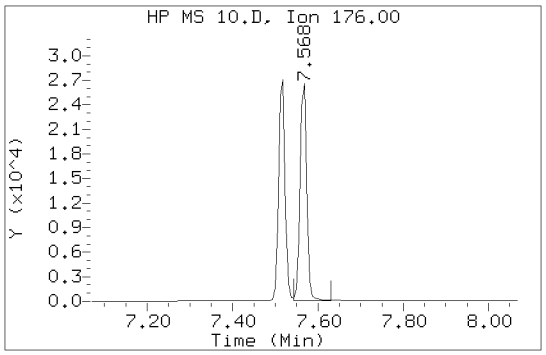
BEFORE

MASS
176
AREA
27911
HEIGHT
26558
18-Dec-2023
10:16
linh
pham



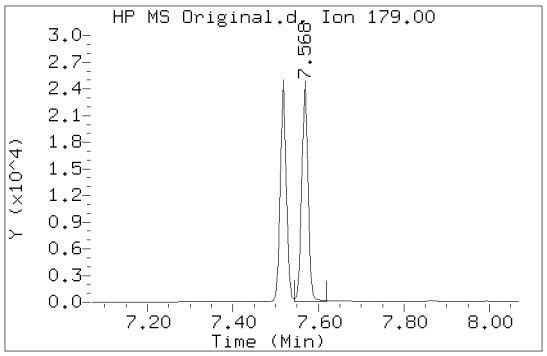
AFTER

MASS
176
AREA
27911
HEIGHT
26558
18-Dec-2023
10:16
linh
pham



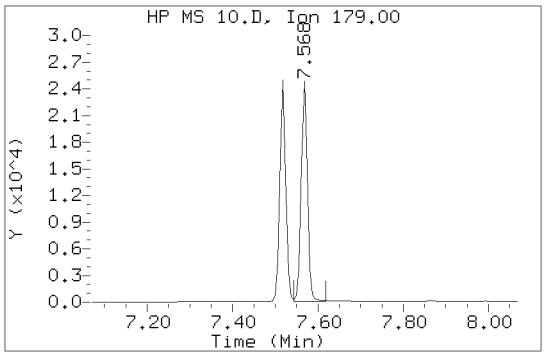
BEFORE

MASS
179
AREA
24507
HEIGHT
24781
18-Dec-2023
10:16
linh
pham



AFTER

MASS
179
AREA
24507
HEIGHT
24781
18-Dec-2023
10:16
linh
pham

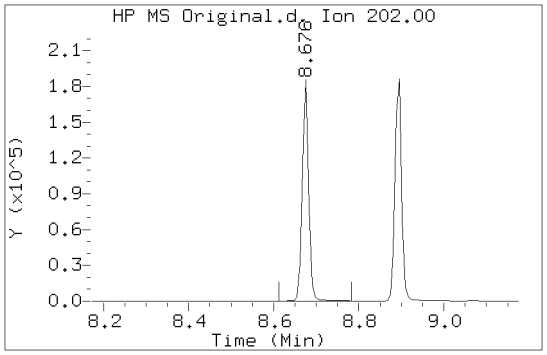


Fluoranthene (206-44-0)

Reason Code:

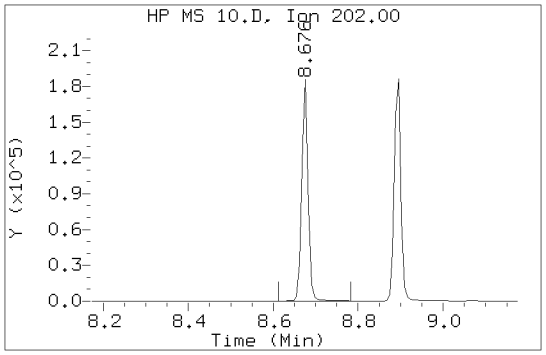
BEFORE

MASS
202
AREA
192859
HEIGHT
185917
18-Dec-2023
10:16
linh
pham



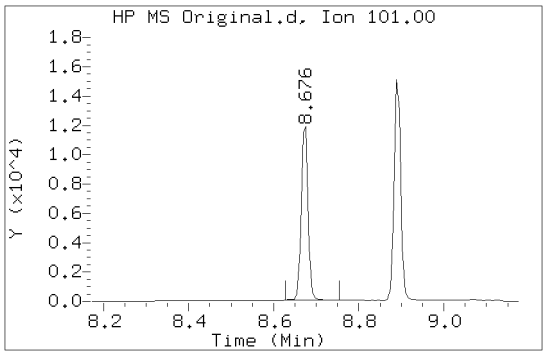
AFTER

MASS
202
AREA
192859
HEIGHT
185917
18-Dec-2023
10:16
linh
pham



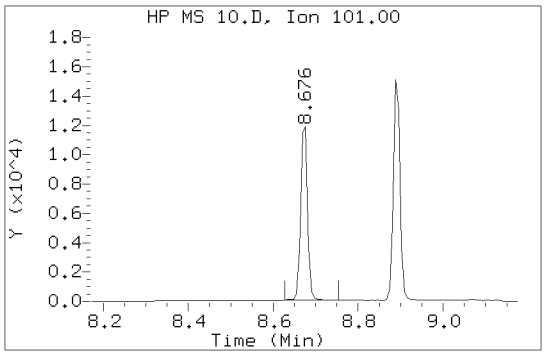
BEFORE

MASS
101
AREA
13501
HEIGHT
11853
18-Dec-2023
10:16
linh
pham



AFTER

MASS
101
AREA
13501
HEIGHT
11853
18-Dec-2023
10:16
linh
pham



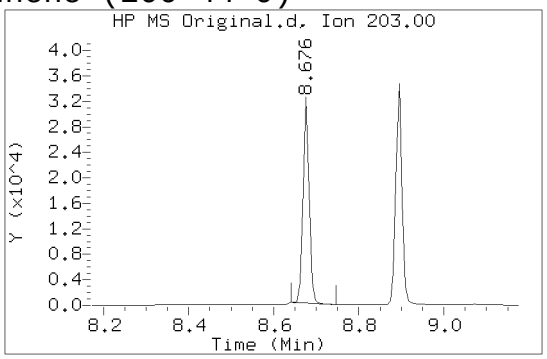
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Inj Date : 12-DEC-2023 15:59
InstruID : SV6.i
LabSampID : PAHSIM-0.50

Fluoranthene (206-44-0)

Reason Code:

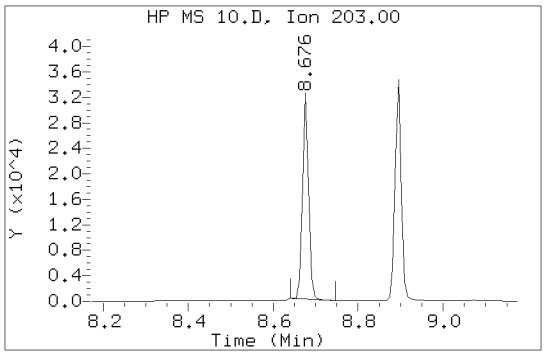
BEFORE

MASS
203
AREA
31574
HEIGHT
32325
18-Dec-2023
10:16
linh
pham



AFTER

MASS
203
AREA
31574
HEIGHT
32325
18-Dec-2023
10:16
linh
pham

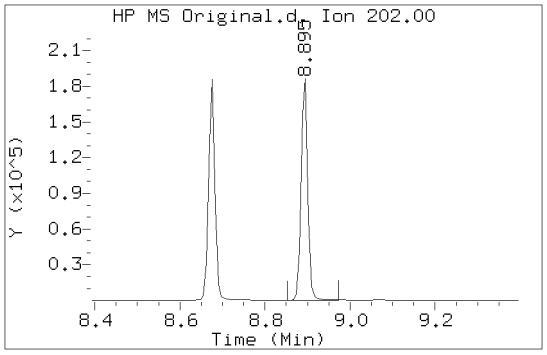


Pyrene (129-00-0)

Reason Code:

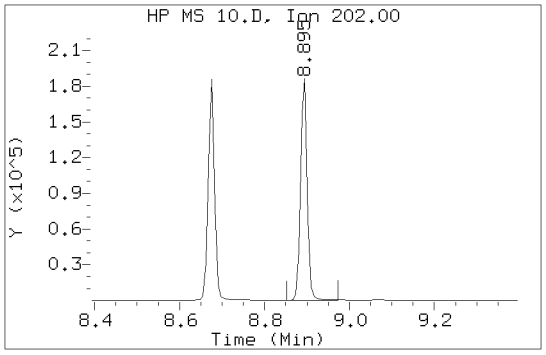
BEFORE

MASS
202
AREA
202802
HEIGHT
186212
18-Dec-2023
10:16
linh
pham



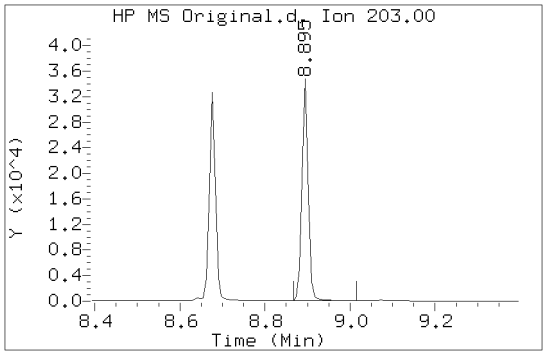
AFTER

MASS
202
AREA
202802
HEIGHT
186212
18-Dec-2023
10:16
linh
pham



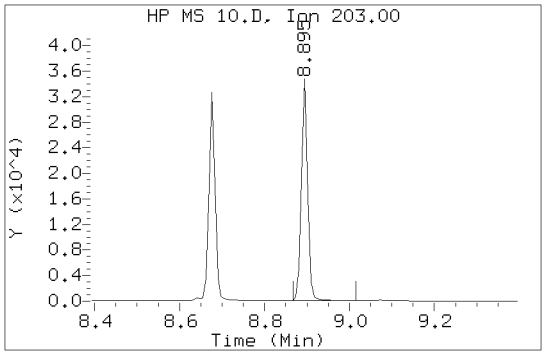
BEFORE

MASS
203
AREA
35356
HEIGHT
34661
18-Dec-2023
10:16
linh
pham



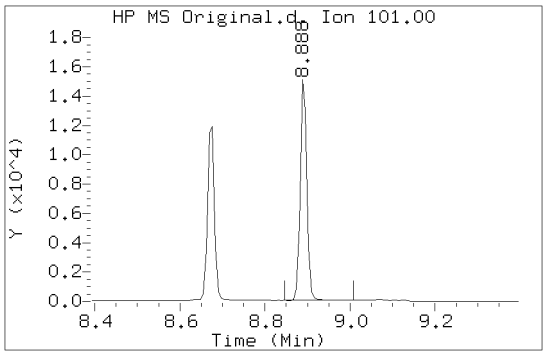
AFTER

MASS
203
AREA
35356
HEIGHT
34661
18-Dec-2023
10:16
linh
pham



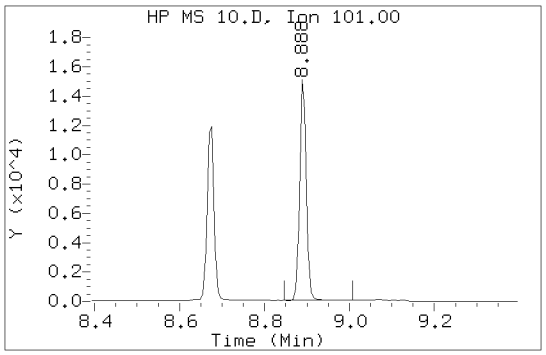
BEFORE

MASS
101
AREA
16385
HEIGHT
15050
18-Dec-2023
10:16
linh
pham



AFTER

MASS
101
AREA
16385
HEIGHT
15050
18-Dec-2023
10:16
linh
pham



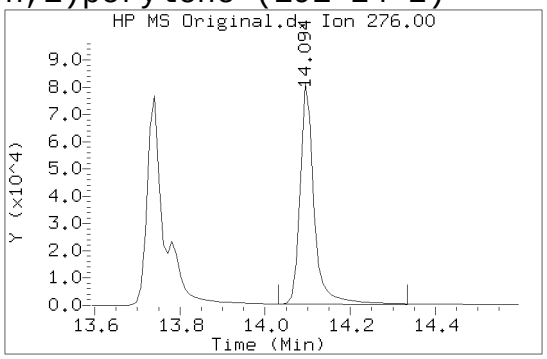
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\10.D
Inj Date : 12-DEC-2023 15:59
InstruID : SV6.i
LabSampID : PAHSIM-0.50

Benzo(g,h,i)perylene (191-24-2)

Reason Code:

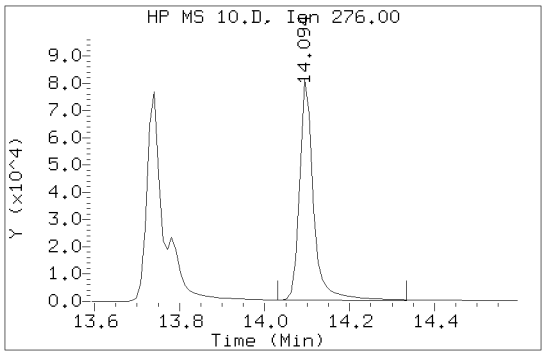
BEFORE

MASS
276
AREA
183621
HEIGHT
80859
18-Dec-2023
10:16
linh
pham



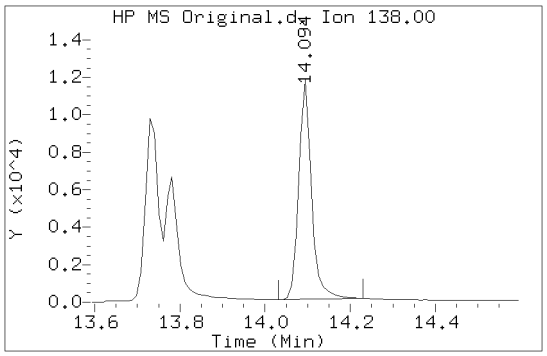
AFTER

MASS
276
AREA
183621
HEIGHT
80859
18-Dec-2023
10:16
linh
pham



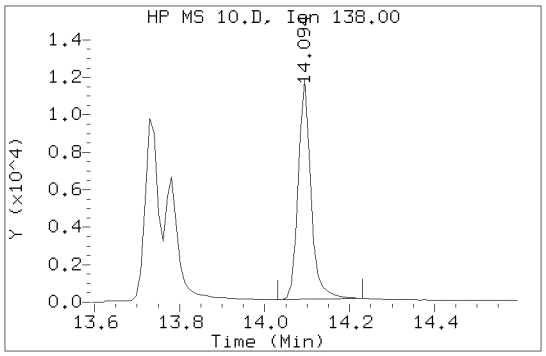
BEFORE

MASS
138
AREA
24272
HEIGHT
11714
18-Dec-2023
10:16
linh
pham



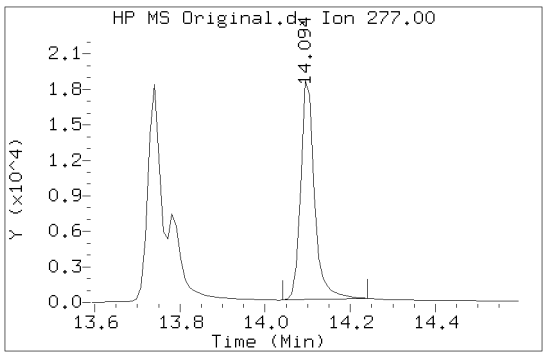
AFTER

MASS
138
AREA
24272
HEIGHT
11714
18-Dec-2023
10:16
linh
pham



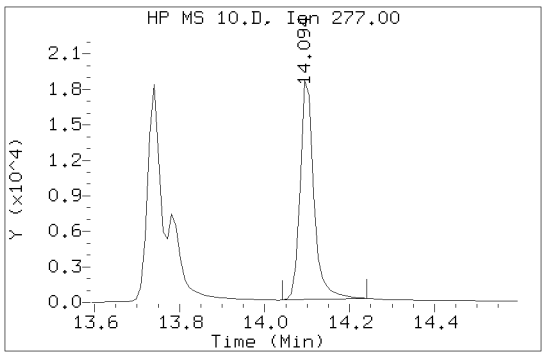
BEFORE

MASS
277
AREA
41408
HEIGHT
18507
18-Dec-2023
10:16
linh
pham



AFTER

MASS
277
AREA
41408
HEIGHT
18507
18-Dec-2023
10:16
linh
pham

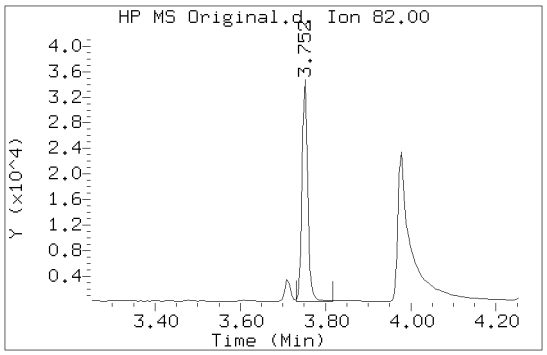


Nitrobenzene-d5 (4165-60-0)

Reason Code:

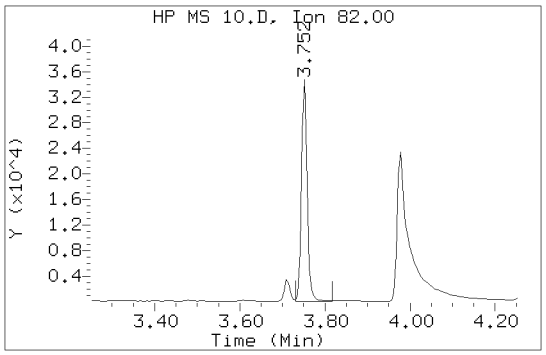
BEFORE

MASS
82
AREA
31571
HEIGHT
34695
18-Dec-2023
10:16
linh
pham



AFTER

MASS
82
AREA
31571
HEIGHT
34695
18-Dec-2023
10:16
linh
pham



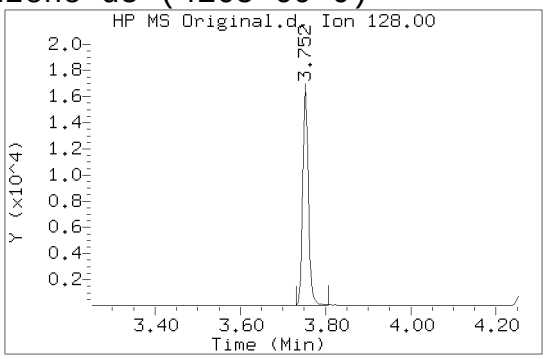
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\10.D
Inj Date : 12-DEC-2023 15:59
InstruID : SV6.i
LabSampID : PAHSIM-0.50

Nitrobenzene-d5 (4165-60-0)

Reason Code:

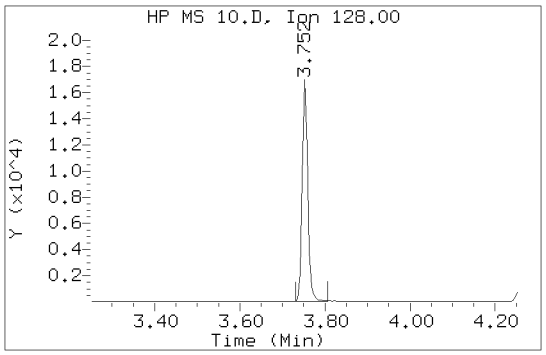
BEFORE

MASS
128
AREA
14964
HEIGHT
16937
18-Dec-2023
10:16
linh
pham



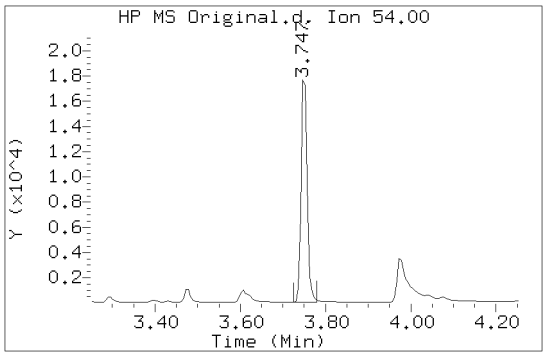
AFTER

MASS
128
AREA
14964
HEIGHT
16937
18-Dec-2023
10:16
linh
pham



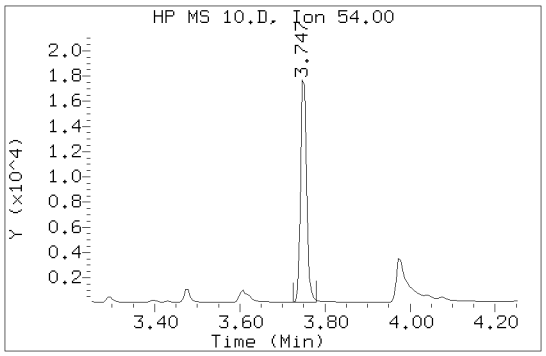
BEFORE

MASS
54
AREA
17244
HEIGHT
17626
18-Dec-2023
10:16
linh
pham



AFTER

MASS
54
AREA
17244
HEIGHT
17626
18-Dec-2023
10:16
linh
pham

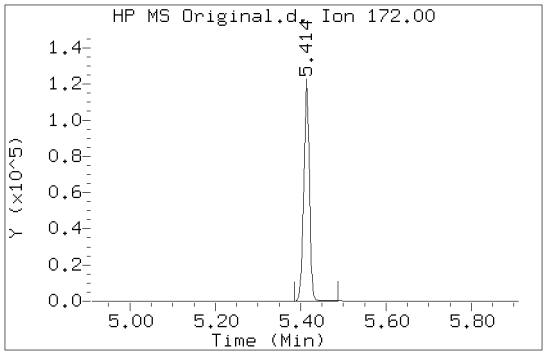


2-Fluorobiphenyl (321-60-8)

Reason Code:

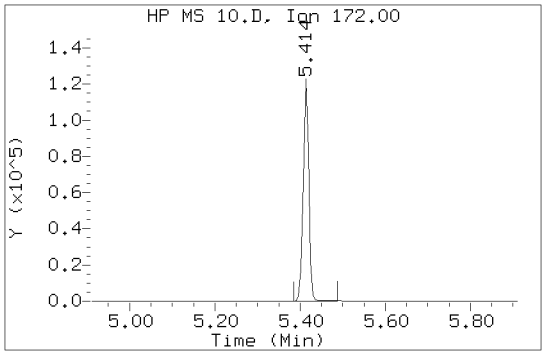
BEFORE

MASS
172
AREA
110011
HEIGHT
122858
18-Dec-2023
10:16
linh
pham



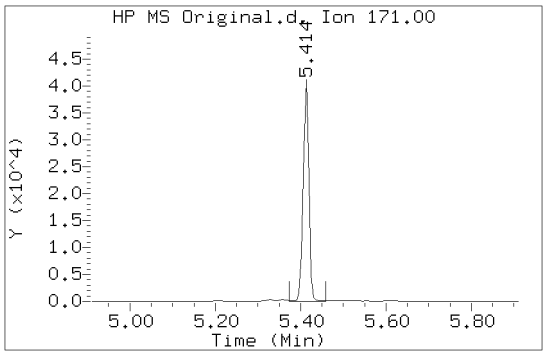
AFTER

MASS
172
AREA
110011
HEIGHT
122858
18-Dec-2023
10:16
linh
pham



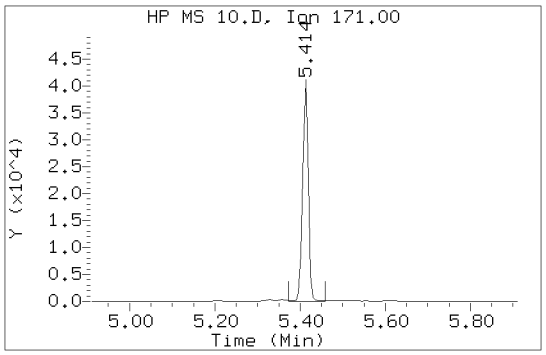
BEFORE

MASS
171
AREA
37375
HEIGHT
41160
18-Dec-2023
10:16
linh
pham



AFTER

MASS
171
AREA
37375
HEIGHT
41160
18-Dec-2023
10:16
linh
pham

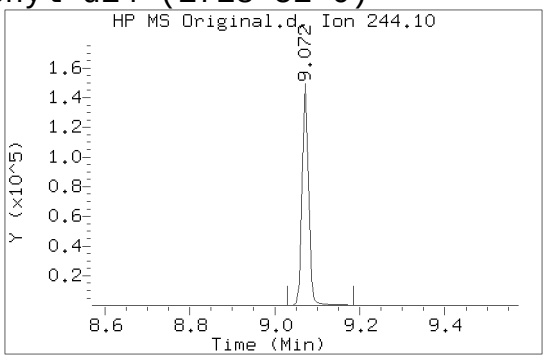


Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\10.D
Inj Date : 12-DEC-2023 15:59
InstruID : SV6.i
LabSampID : PAHSIM-0.50

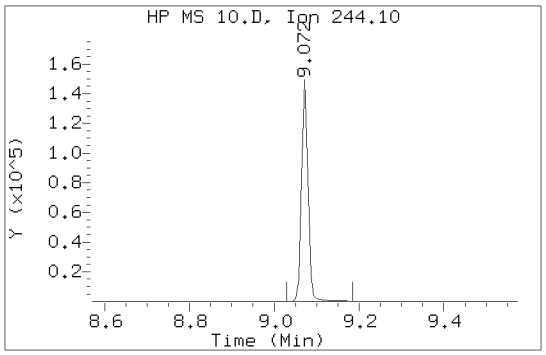
4-Terphenyl-d14 (1718-51-0)

Reason Code:

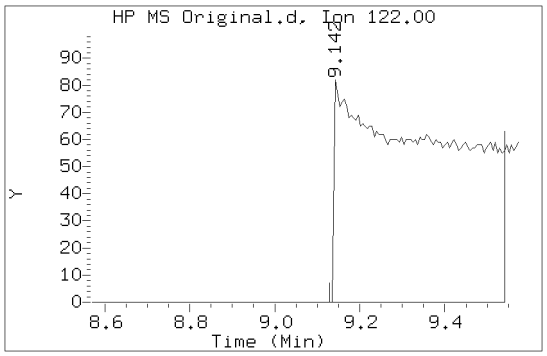
BEFORE
MASS
244.1
AREA
140743
HEIGHT
149344
18-Dec-2023
10:16
linh
pham



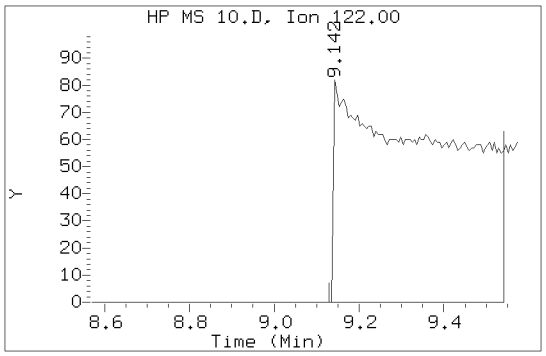
AFTER
MASS
244.1
AREA
140743
HEIGHT
149344
18-Dec-2023
10:16
linh
pham



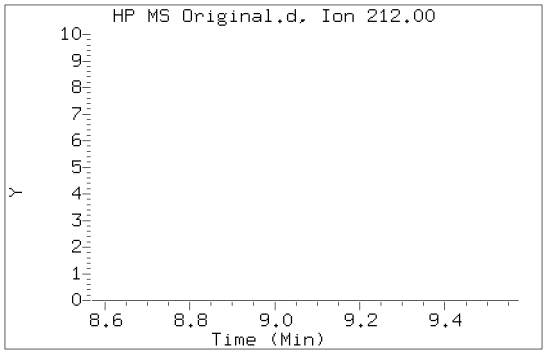
BEFORE
MASS
122
AREA
1493
HEIGHT
82
18-Dec-2023
10:16
linh
pham



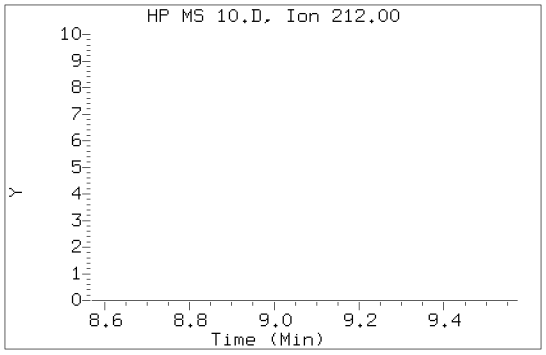
AFTER
MASS
122
AREA
1493
HEIGHT
82
18-Dec-2023
10:16
linh
pham



BEFORE
MASS
212
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER
MASS
212
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\231212.b\11.D
Lab Smp Id: PAHSIM ICV-0.08 Client Smp ID: PAHSIM ICV-0.08
Inj Date : 12-DEC-2023 16:19
Operator : LG Inst ID: SV6.i
Smp Info : PAHSIM ICV-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\231212.b\PAHSIM1.m
Meth Date : 18-Dec-2023 10:17 SV6.i Quant Type: ISTD
Cal Date : 12-DEC-2023 15:59 Cal File: 10.D
Als bottle: 11 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: llpahdbf.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 45 Naphthalene-d8	136	4.391	4.391	(1.000)	25175	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.752	3.752	(0.854)	5427	0.07818	0.07818(M)
* 86 Acenaphthene-d10	164	6.056	6.058	(1.000)	15648	0.10000	
$ 69 2-Fluorobiphenyl	172	5.419	5.413	(0.895)	19304	0.07747	0.07747
* 126 Phenanthrene-d10	188	7.498	7.493	(1.000)	32385	0.10000	
* 182 Chrysene-d12	240	10.243	10.237	(1.000)	29147	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.077	9.071	(0.908)	21376	0.07222	0.07222
* 198 Perylene-d12	264	12.218	12.220	(1.000)	29848	0.10000	
46 Naphthalene	128	4.407	4.407	(1.031)	22249	0.08055	0.08055
61 2-Methylnaphthalene	142	5.059	5.053	(1.184)	14713	0.07965	0.07965
62 1-Methylnaphthalene	142	5.150	5.150	(1.205)	13635	0.07911	0.07911
83 Acenaphthylene	152	5.915	5.910	(0.977)	22110	0.07727	0.07727
88 Acenaphthene	154	6.086	6.080	(1.005)	14152	0.07845	0.07844
98 Fluorene	166	6.588	6.583	(1.088)	17084	0.07703	0.07703
92 Dibenzofuran	168	6.716	6.711	(1.109)	9112	0.07791	0.07790
128 Phenanthrene	178	7.523	7.518	(1.003)	27676	0.07808	0.07808
130 Anthracene	178	7.572	7.568	(1.010)	27519	0.07791	0.07791(M)
149 Fluoranthene	202	8.674	8.676	(1.157)	32128	0.07620	0.07620
155 Pyrene	202	8.893	8.895	(0.890)	34127	0.08053	0.08053

181 Benzo(a)Anthracene	228	10.228	10.222 (0.999)	31817	0.08050	0.08050(M)
183 Chrysene	228	10.272	10.267 (1.003)	36118	0.08199	0.08199(M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
192 Benzo(b)fluoranthene	252	11.675	11.670	(0.956)	29596	0.07988	0.07988
195 Benzo(k)fluoranthene	252	11.712	11.714	(0.959)	34804	0.07763	0.07763
197 Benzo(a)pyrene	252	12.137	12.132	(0.993)	27244	0.07587	0.07587(M)
209 Indeno(1,2,3-cd)pyrene	276	13.738	13.739	(1.124)	30452	0.07086	0.07086
210 Dibenzo(a,h)anthracene	278	13.790	13.791	(1.129)	25333	0.07098	0.07098(M)
212 Benzo(g,h,i)perylene	276	14.102	14.094	(1.154)	27319	0.07118	0.07118(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\231212.b\11.D

Date : 12-DEC-2023 16:19

Client ID: PAHSIM ICV-0.08

Instrument: SV6.i

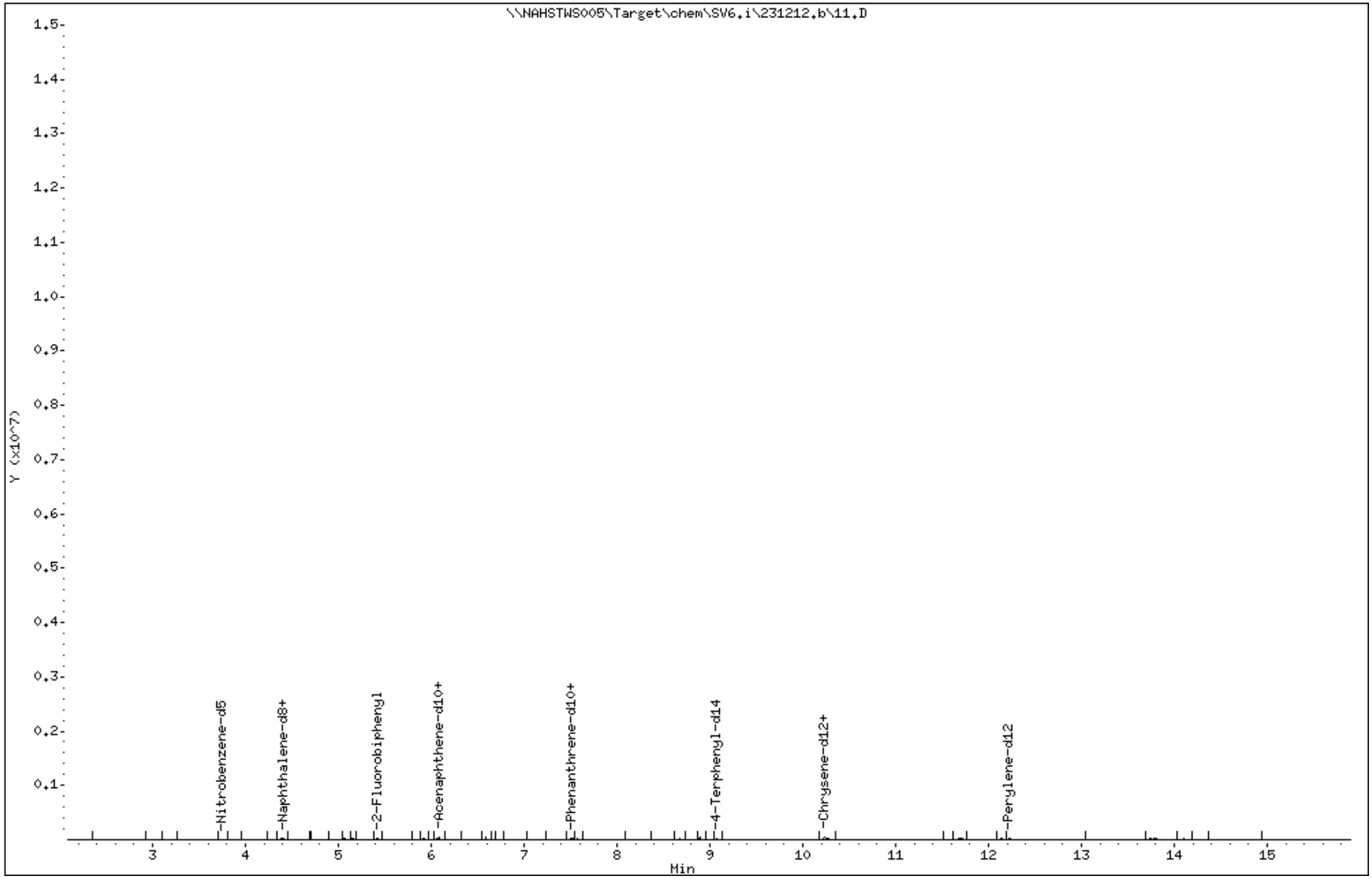
Sample Info: PAHSIM ICV-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



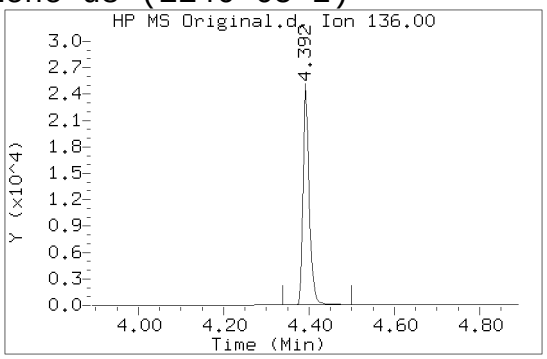
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Inj Date : 12-DEC-2023 16:19
InstruID : SV6.i
LabSampID : PAHSIM ICV-0.08

Naphthalene-d8 (1146-65-2)

Reason Code:

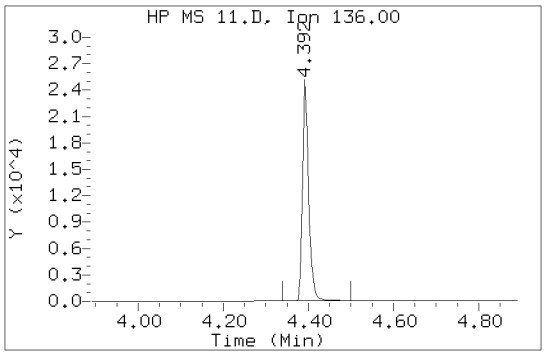
BEFORE

MASS
136
AREA
25175
HEIGHT
25116
18-Dec-2023
10:16
linh
pham



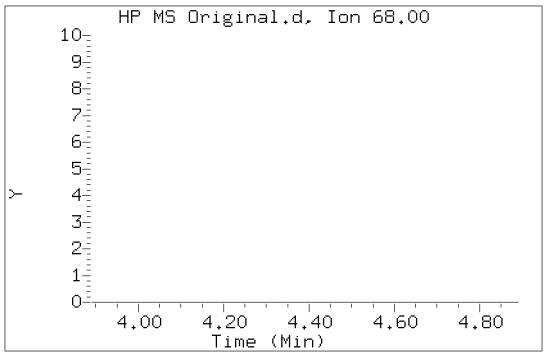
AFTER

MASS
136
AREA
25175
HEIGHT
25116
18-Dec-2023
10:16
linh
pham



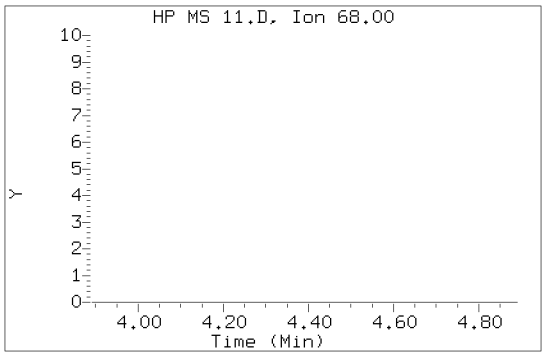
BEFORE

MASS
68
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
68
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham

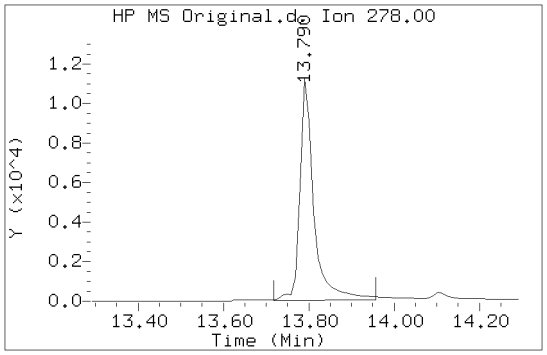


Dibenzo(a,h)anthracene (53-70-3)

Reason Code:

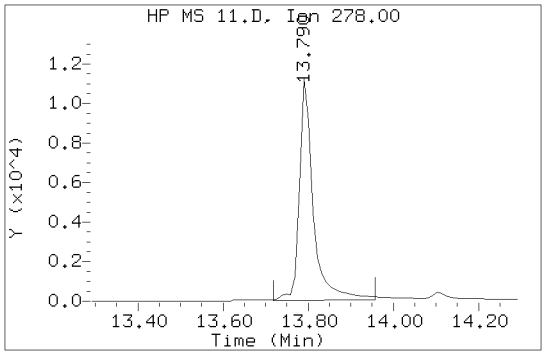
BEFORE

MASS
278
AREA
25333
HEIGHT
11194
18-Dec-2023
10:16
linh
pham



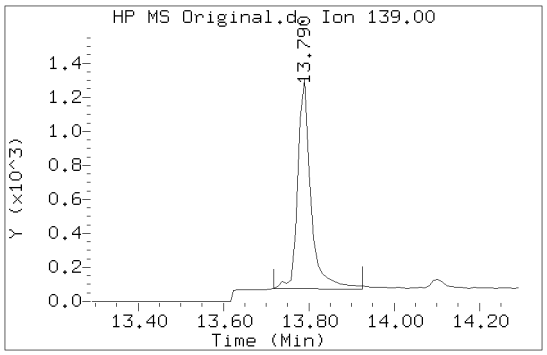
AFTER

MASS
278
AREA
25333
HEIGHT
11194
18-Dec-2023
10:16
linh
pham



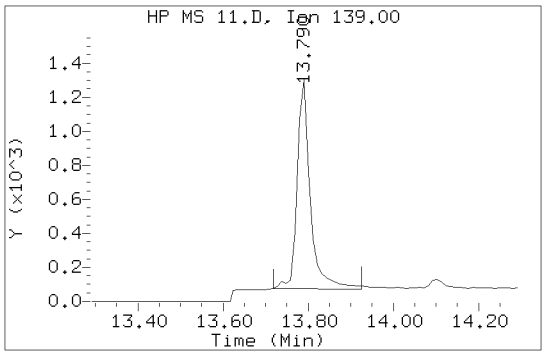
BEFORE

MASS
139
AREA
2624
HEIGHT
1229
18-Dec-2023
10:16
linh
pham



AFTER

MASS
139
AREA
2624
HEIGHT
1229
18-Dec-2023
10:16
linh
pham



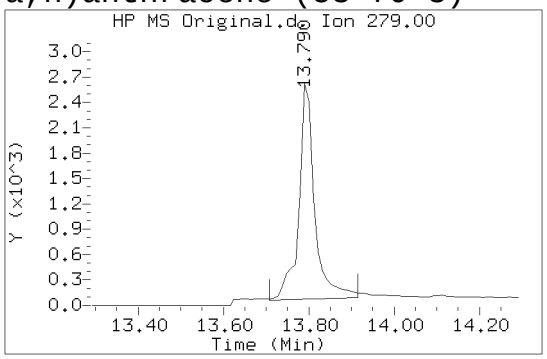
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InstruID : SV6.i
LabSampID : PAHSIM ICV-0.08

Dibenzo(a,h)anthracene (53-70-3)

Reason Code:

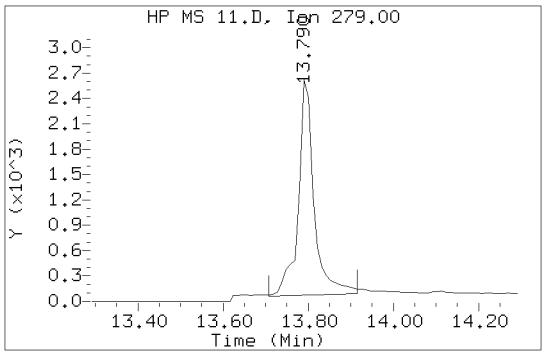
BEFORE

MASS
279
AREA
6544
HEIGHT
2548
18-Dec-2023
10:16
linh
pham



AFTER

MASS
279
AREA
6544
HEIGHT
2548
18-Dec-2023
10:16
linh
pham

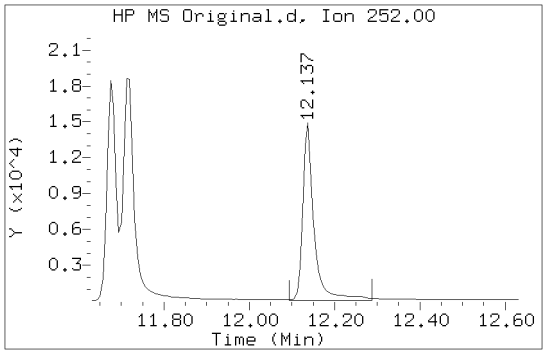


Benzo(a)pyrene (50-32-8)

Reason Code:

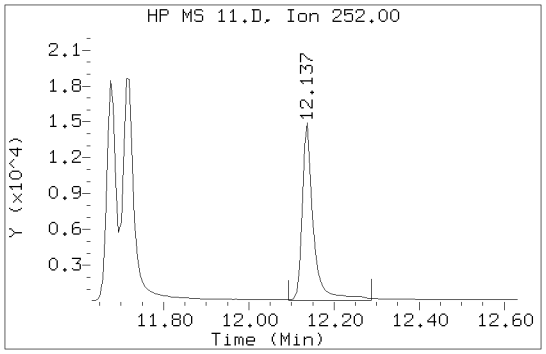
BEFORE

MASS
252
AREA
27244
HEIGHT
14841
18-Dec-2023
10:16
linh
pham



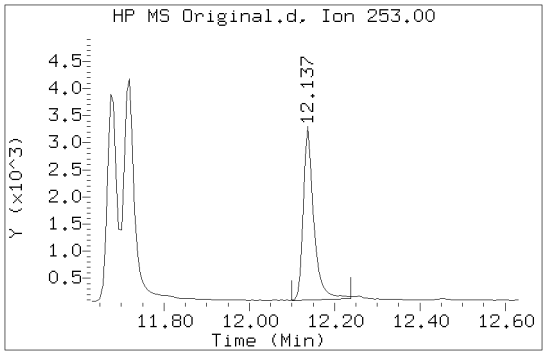
AFTER

MASS
252
AREA
27244
HEIGHT
14841
18-Dec-2023
10:16
linh
pham



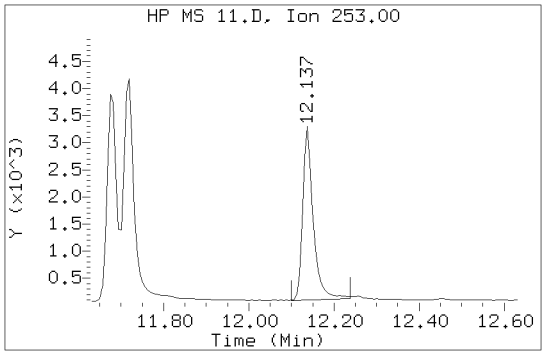
BEFORE

MASS
253
AREA
5589
HEIGHT
3204
18-Dec-2023
10:16
linh
pham



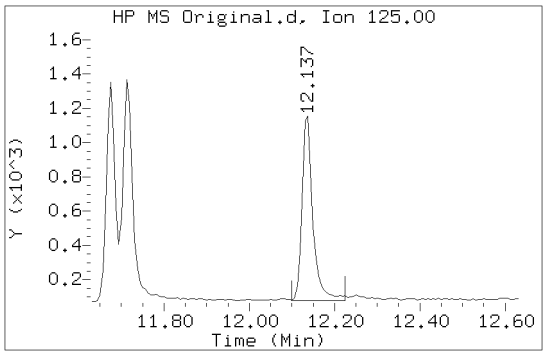
AFTER

MASS
253
AREA
5589
HEIGHT
3204
18-Dec-2023
10:16
linh
pham



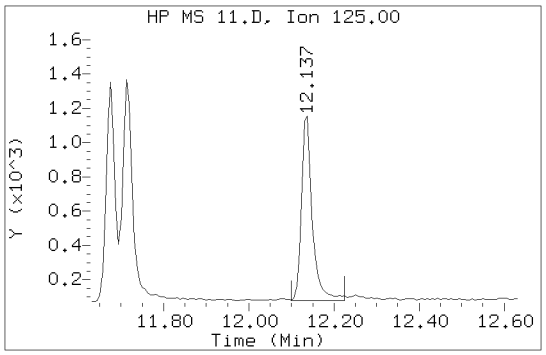
BEFORE

MASS
125
AREA
1933
HEIGHT
1075
18-Dec-2023
10:16
linh
pham



AFTER

MASS
125
AREA
1933
HEIGHT
1075
18-Dec-2023
10:16
linh
pham



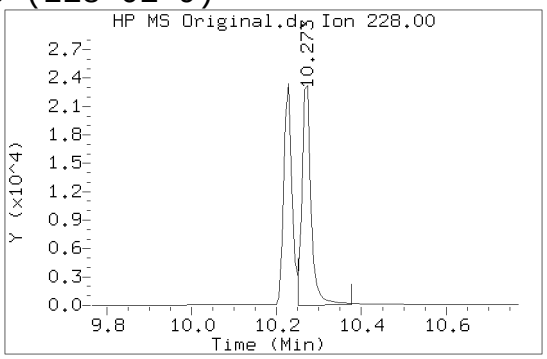
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Inj Date : 12-DEC-2023 16:19
InstruID : SV6.i
LabSampID : PAHSIM ICV-0.08

Chrysene (218-01-9)

Reason Code:

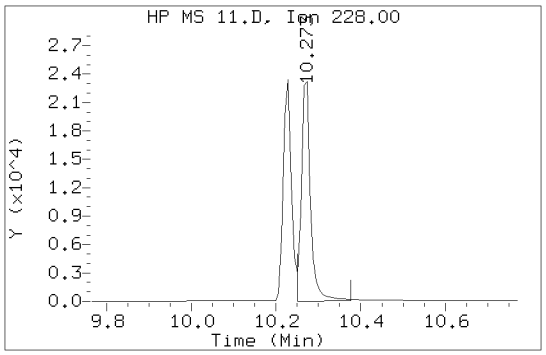
BEFORE

MASS
228
AREA
36118
HEIGHT
23168
18-Dec-2023
10:16
linh
pham



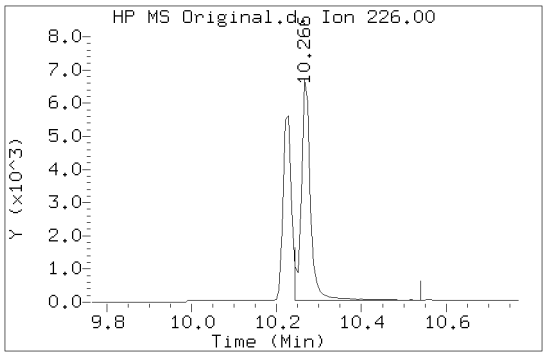
AFTER

MASS
228
AREA
36118
HEIGHT
23168
18-Dec-2023
10:16
linh
pham



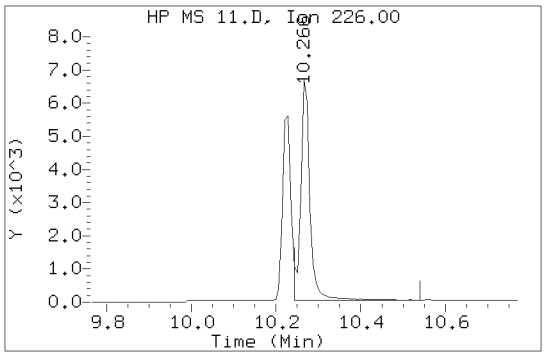
BEFORE

MASS
226
AREA
10410
HEIGHT
6644
18-Dec-2023
10:16
linh
pham



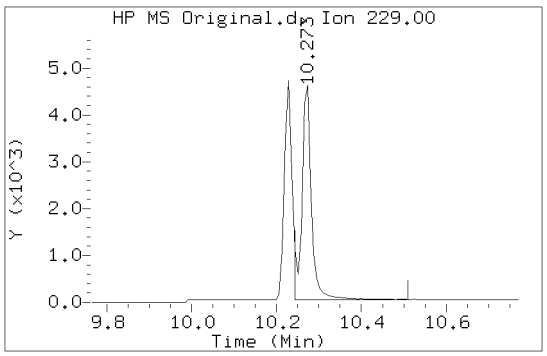
AFTER

MASS
226
AREA
10410
HEIGHT
6644
18-Dec-2023
10:16
linh
pham



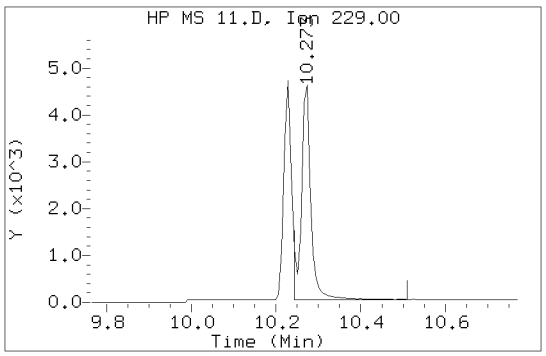
BEFORE

MASS
229
AREA
7513
HEIGHT
4584
18-Dec-2023
10:16
linh
pham



AFTER

MASS
229
AREA
7513
HEIGHT
4584
18-Dec-2023
10:16
linh
pham

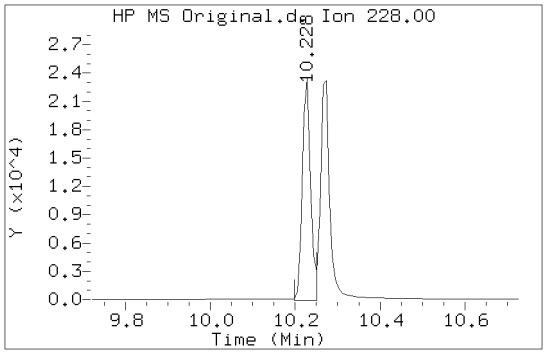


Benzo(a)Anthracene (56-55-3)

Reason Code:

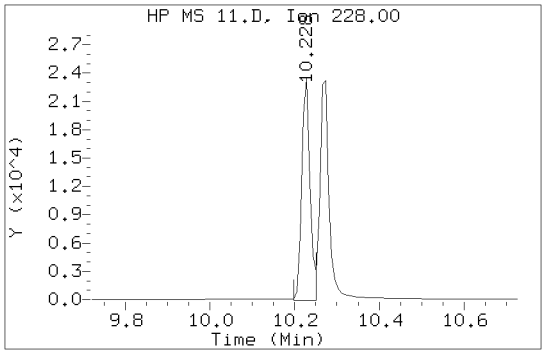
BEFORE

MASS
228
AREA
31817
HEIGHT
23478
18-Dec-2023
10:16
linh
pham



AFTER

MASS
228
AREA
31817
HEIGHT
23478
18-Dec-2023
10:16
linh
pham



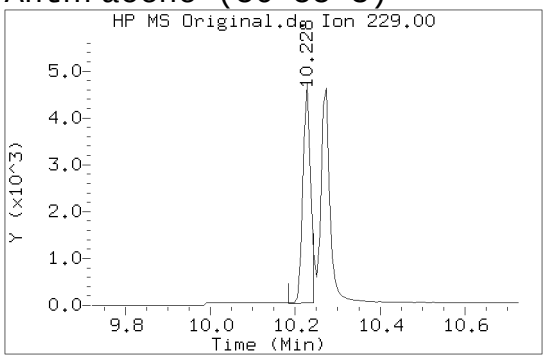
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Inj Date : 12-DEC-2023 16:19
InstruID : SV6.i
LabSampID : PAHSIM ICV-0.08

Benzo(a)Anthracene (56-55-3)

Reason Code:

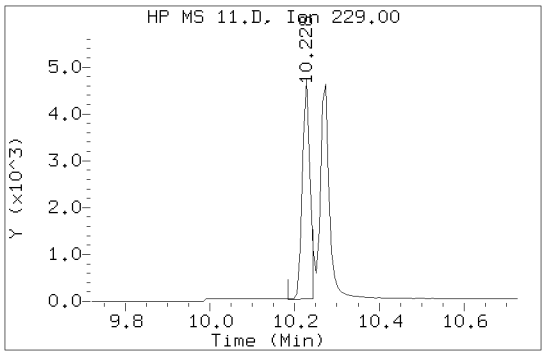
BEFORE

MASS
229
AREA
5825
HEIGHT
4680
18-Dec-2023
10:16
linh
pham



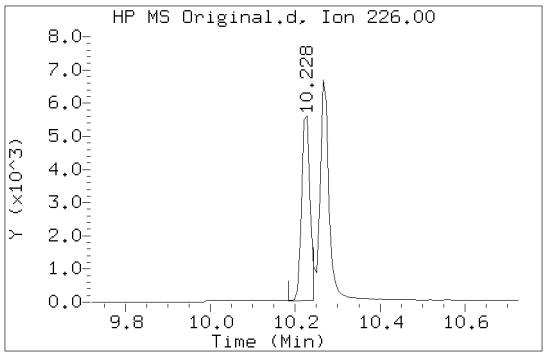
AFTER

MASS
229
AREA
5825
HEIGHT
4680
18-Dec-2023
10:16
linh
pham



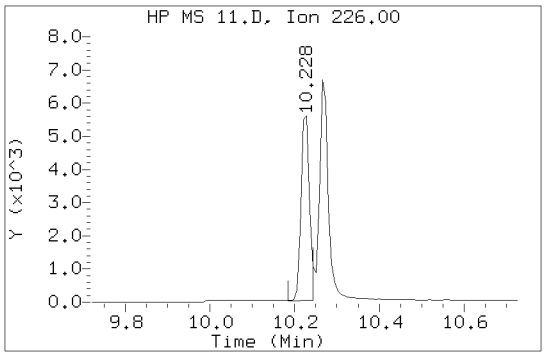
BEFORE

MASS
226
AREA
7676
HEIGHT
5565
18-Dec-2023
10:16
linh
pham



AFTER

MASS
226
AREA
7676
HEIGHT
5565
18-Dec-2023
10:16
linh
pham

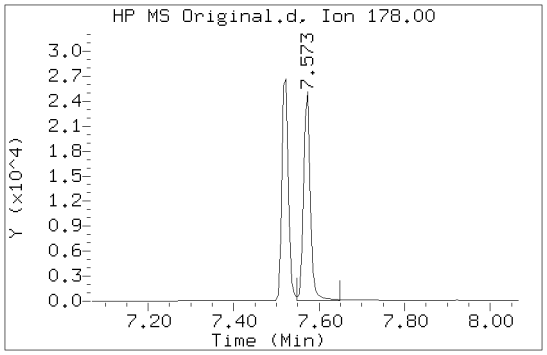


Anthracene (120-12-7)

Reason Code:

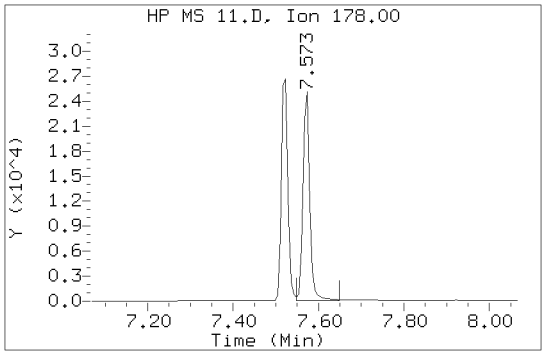
BEFORE

MASS
178
AREA
27519
HEIGHT
25045
18-Dec-2023
10:16
linh
pham



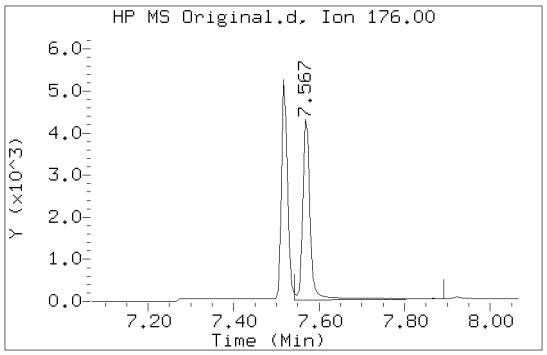
AFTER

MASS
178
AREA
27519
HEIGHT
25045
18-Dec-2023
10:16
linh
pham



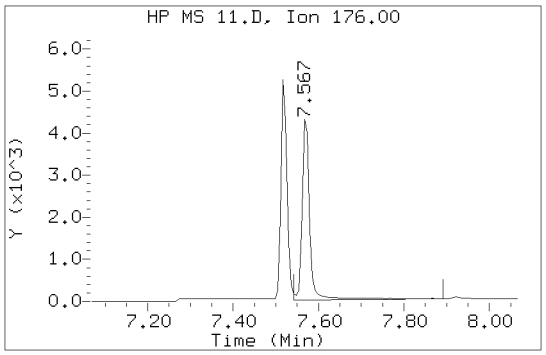
BEFORE

MASS
176
AREA
5290
HEIGHT
4301
18-Dec-2023
10:16
linh
pham



AFTER

MASS
176
AREA
5290
HEIGHT
4301
18-Dec-2023
10:16
linh
pham



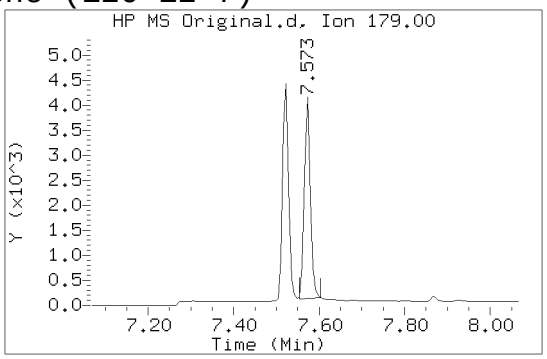
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InstruID : SV6.i
LabSampID : PAHSIM ICV-0.08

Anthracene (120-12-7)

Reason Code:

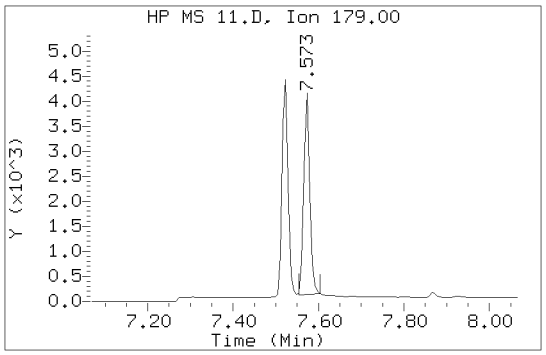
BEFORE

MASS
179
AREA
3902
HEIGHT
4017
18-Dec-2023
10:16
linh
pham



AFTER

MASS
179
AREA
3902
HEIGHT
4017
18-Dec-2023
10:16
linh
pham

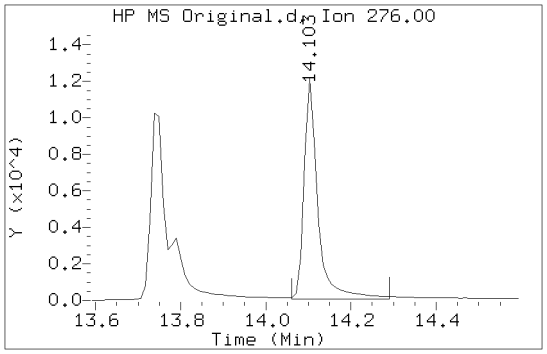


Benzo(g,h,i)perylene (191-24-2)

Reason Code:

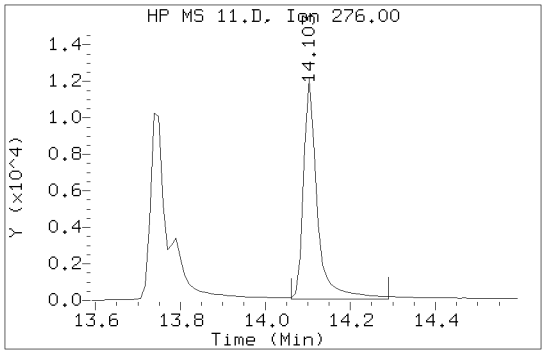
BEFORE

MASS
276
AREA
27319
HEIGHT
12091
18-Dec-2023
10:16
linh
pham



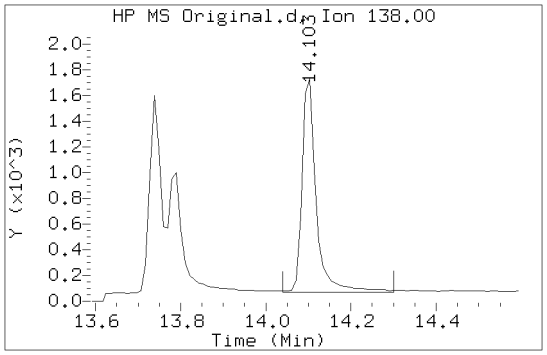
AFTER

MASS
276
AREA
27319
HEIGHT
12091
18-Dec-2023
10:16
linh
pham



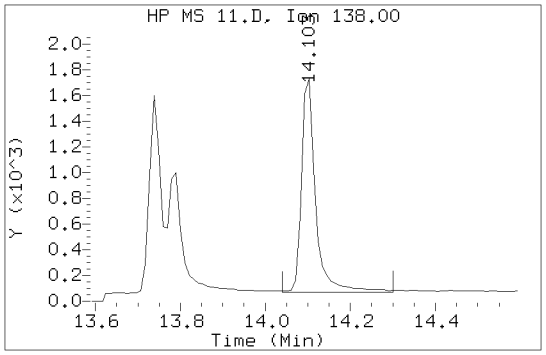
BEFORE

MASS
138
AREA
3826
HEIGHT
1659
18-Dec-2023
10:16
linh
pham



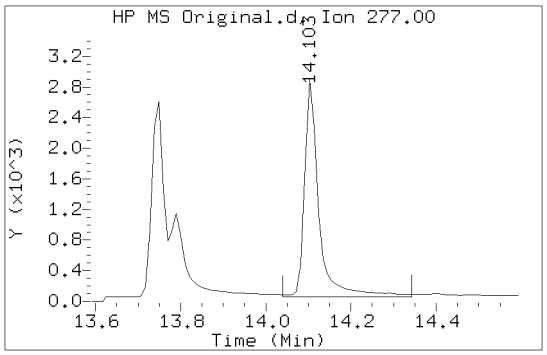
AFTER

MASS
138
AREA
3826
HEIGHT
1659
18-Dec-2023
10:16
linh
pham



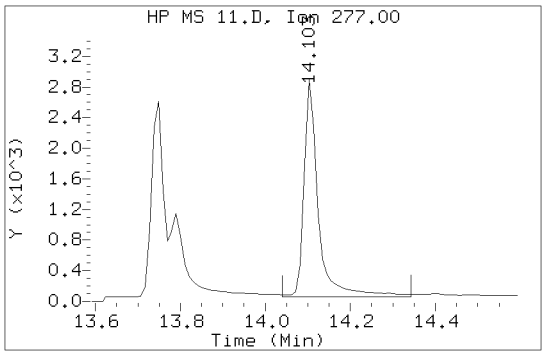
BEFORE

MASS
277
AREA
6650
HEIGHT
2837
18-Dec-2023
10:16
linh
pham



AFTER

MASS
277
AREA
6650
HEIGHT
2837
18-Dec-2023
10:16
linh
pham



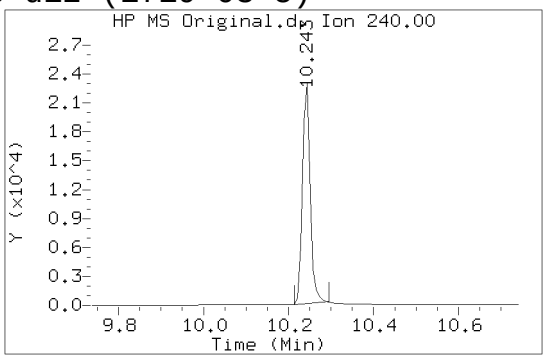
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\11.D
Inj Date : 12-DEC-2023 16:19
InstruID : SV6.i
LabSampID : PAHSIM ICV-0.08

Chrysene-d12 (1719-03-5)

Reason Code:

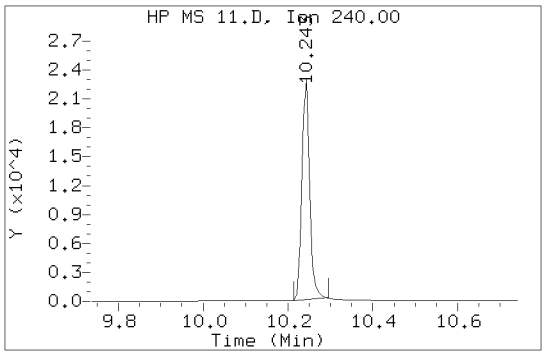
BEFORE

MASS
240
AREA
29147
HEIGHT
22805
18-Dec-2023
10:16
linh
pham



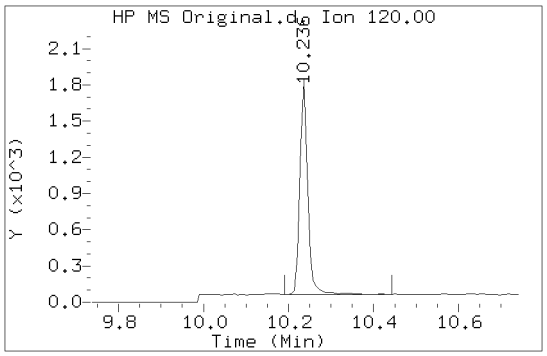
AFTER

MASS
240
AREA
29147
HEIGHT
22805
18-Dec-2023
10:16
linh
pham



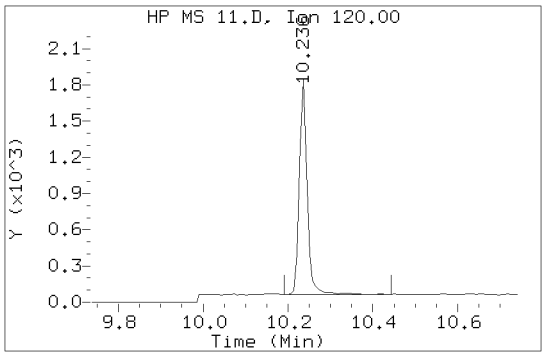
BEFORE

MASS
120
AREA
2266
HEIGHT
1776
18-Dec-2023
10:16
linh
pham



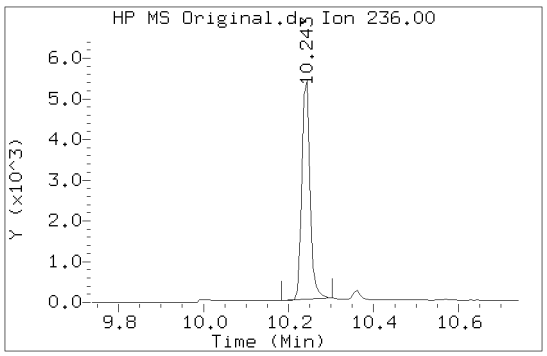
AFTER

MASS
120
AREA
2266
HEIGHT
1776
18-Dec-2023
10:16
linh
pham



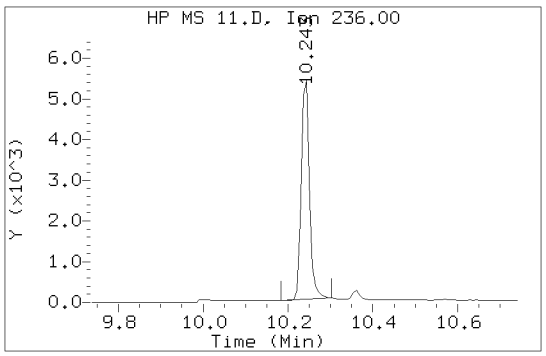
BEFORE

MASS
236
AREA
7241
HEIGHT
5367
18-Dec-2023
10:16
linh
pham



AFTER

MASS
236
AREA
7241
HEIGHT
5367
18-Dec-2023
10:16
linh
pham

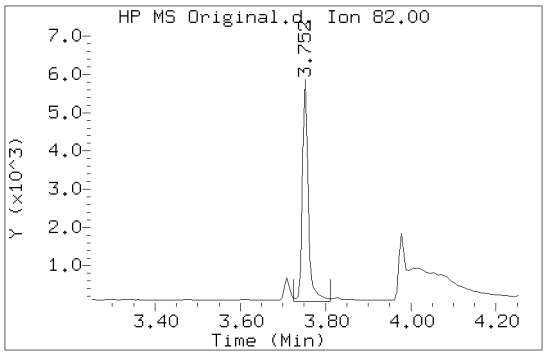


Nitrobenzene-d5 (4165-60-0)

Reason Code:

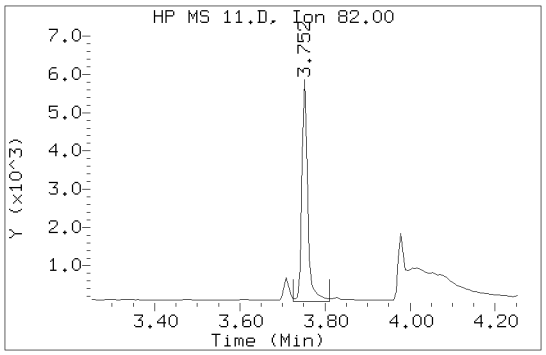
BEFORE

MASS
82
AREA
5427
HEIGHT
5787
18-Dec-2023
10:16
linh
pham



AFTER

MASS
82
AREA
5427
HEIGHT
5787
18-Dec-2023
10:16
linh
pham



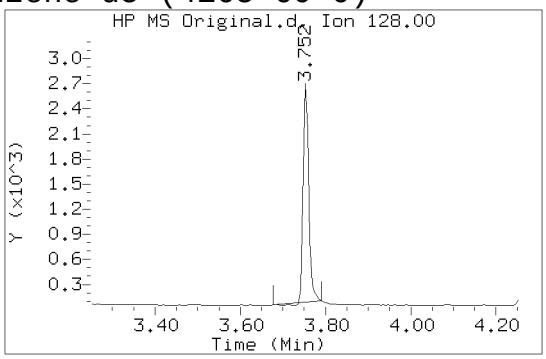
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\11.D
Inj Date : 12-DEC-2023 16:19
InstruID : SV6.i
LabSampID : PAHSIM ICV-0.08

Nitrobenzene-d5 (4165-60-0)

Reason Code:

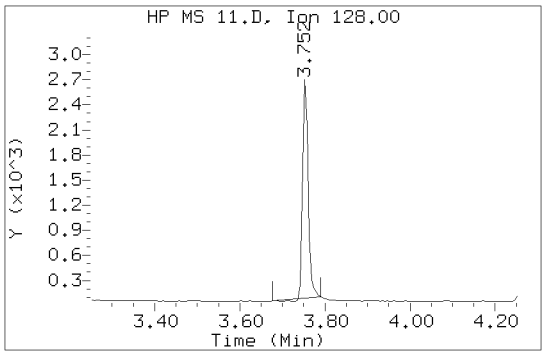
BEFORE

MASS
128
AREA
2264
HEIGHT
2610
18-Dec-2023
10:16
linh
pham



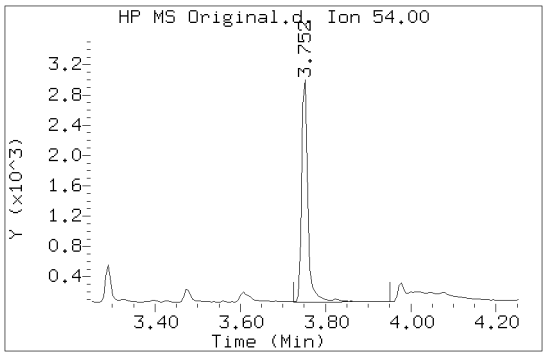
AFTER

MASS
128
AREA
2264
HEIGHT
2610
18-Dec-2023
10:16
linh
pham



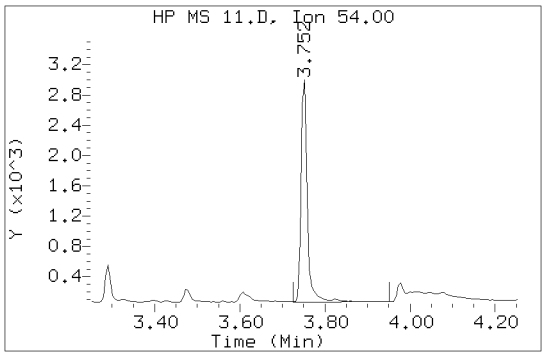
BEFORE

MASS
54
AREA
2942
HEIGHT
2928
18-Dec-2023
10:16
linh
pham



AFTER

MASS
54
AREA
2942
HEIGHT
2928
18-Dec-2023
10:16
linh
pham



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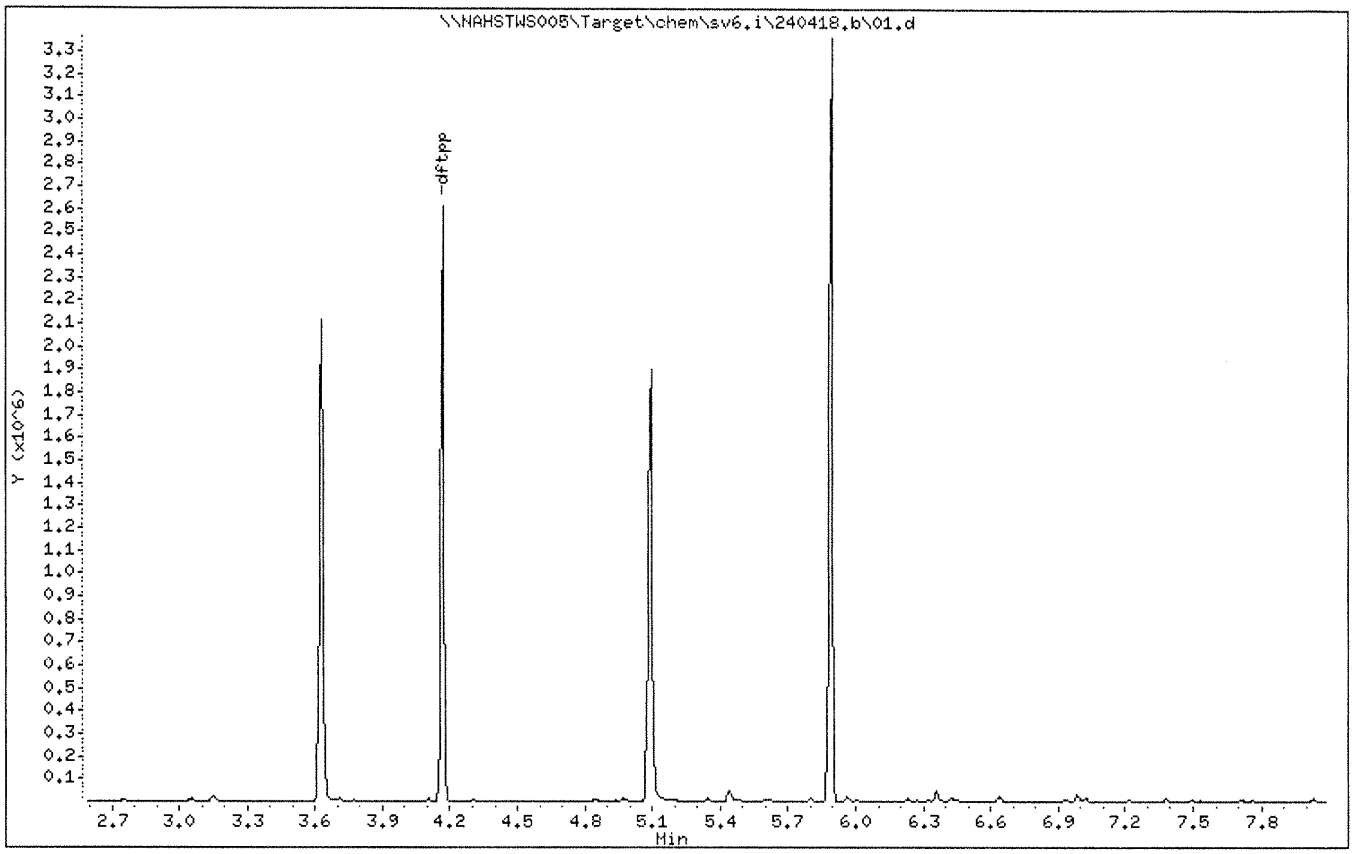
Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 18-APR-2024 10:39
Operator : smith Inst ID: SV6.i
Smp Info : DFTPP;DFTPP;3;;DFTPP
Misc Info :
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DFTPP.m
Meth Date : 14-Mar-2023 15:58 Linh.Pham Quant Type: AREA%
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: NAHSTW7095

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.630	2402424	2118085	0.882	22.89	
4.170	2400277	2609070	1.087	22.87	1 dftpp
5.095	2373623	1905531	0.803	22.61	
5.892	3317783	3362080	1.013	31.63	
	10494107	9994766		100.000	

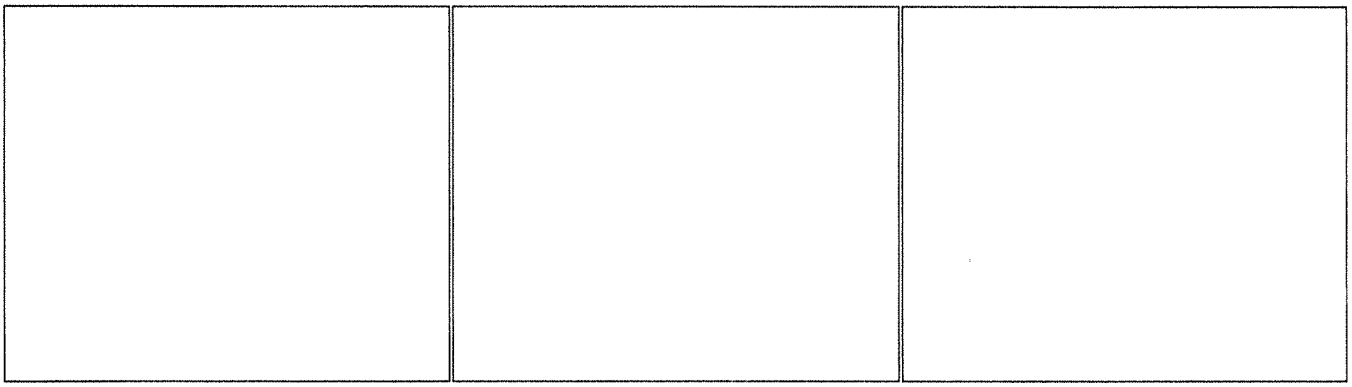
Total unknown % area = 77

Data File: \\NAHSTWS005\Target\chem\sv6.i\240418.b\01.d

Page 1



1 dftpp



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D
Report Date: 17-Jul-2024 16:41

ALS Laboratory Group

TARGET COMPOUNDS

Client Name:
Lab Smp Id: DFTPP
Sample Location:
Sample Date:
Sample Matrix: None
Analysis Type: SV
Data Type: MS DATA
Misc Info:

Client SDG: SDGa80227
Client Smp ID: DFTPP
Sample Point:
Date Received:
Quant Type: ESTD
Level:
Operator: smith

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
5074-71-5	dftpp	0.0	

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D

Date : 18-APR-2024 10:39

Client ID: DFTPP

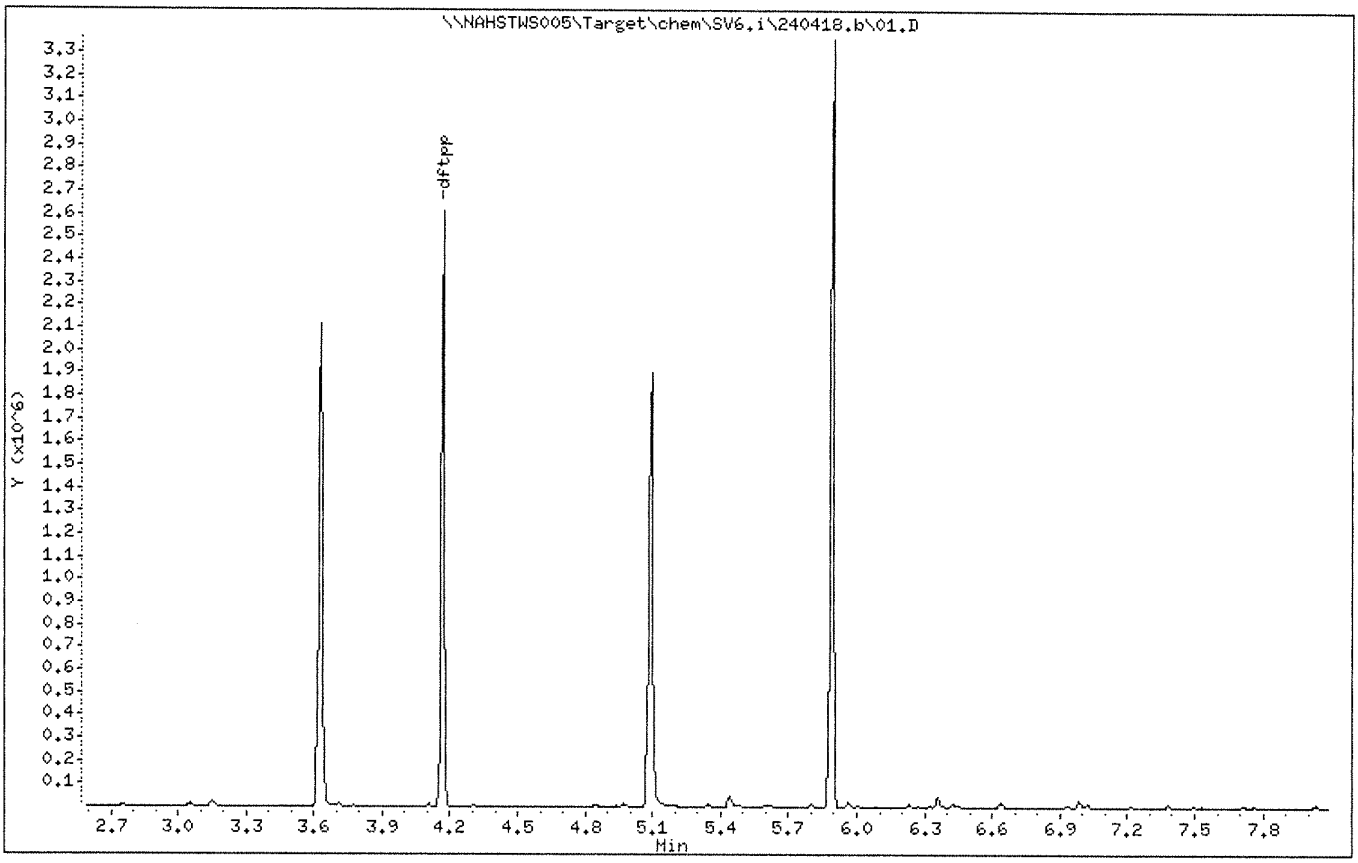
Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS

Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D

Date : 18-APR-2024 10:39

Client ID: DFTPP

Instrument: SV6.i

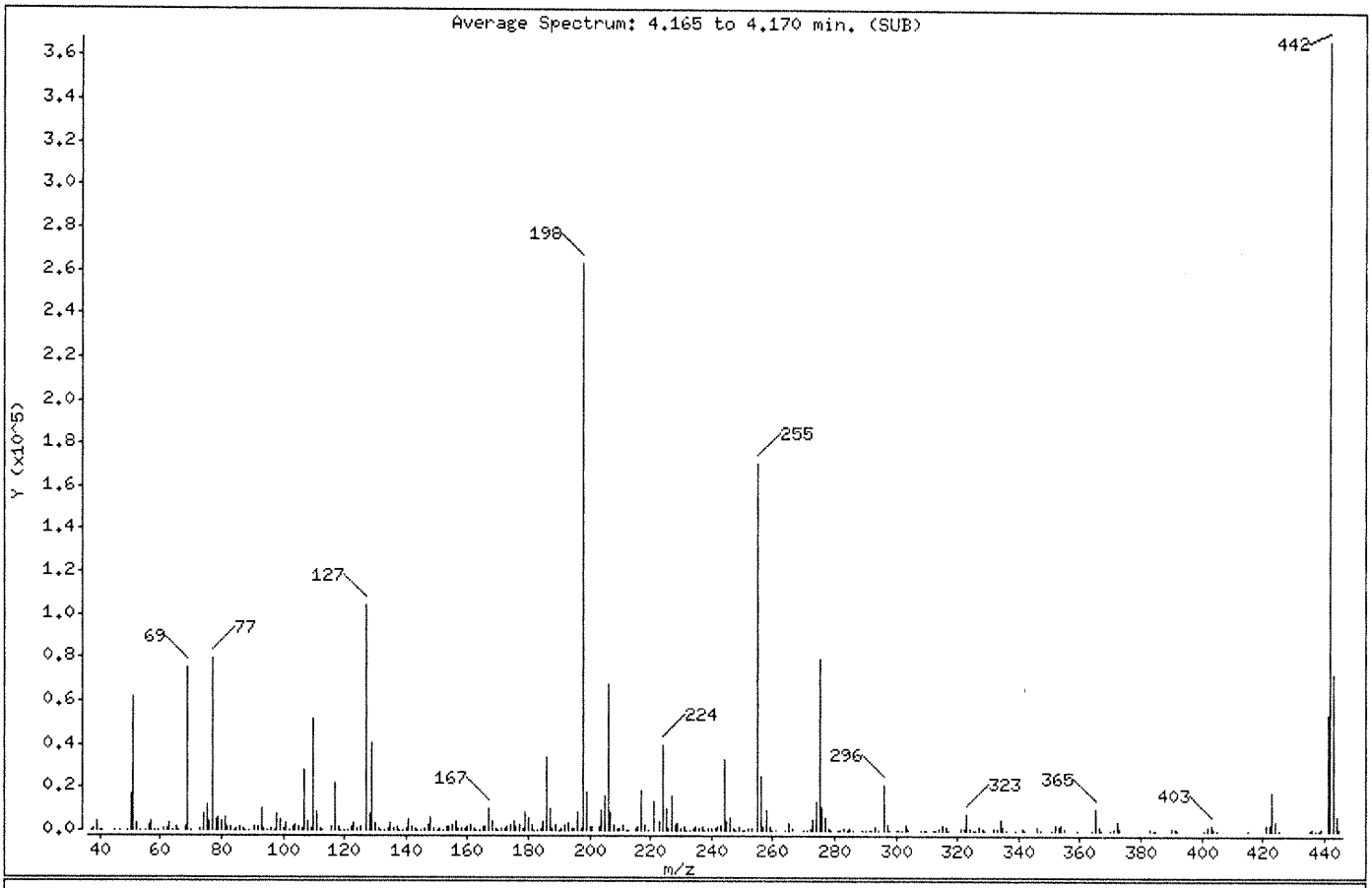
Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	23.62
68	Less than 2.00% of mass 69	0.51 (1.76)
69	Mass 69 relative abundance	28.76
70	Less than 2.00% of mass 69	0.16 (0.54)
127	10.00 - 80.00% of mass 198	39.72
197	Less than 2.00% of mass 198	0.38
199	5.00 - 9.00% of mass 198	6.71
275	10.00 - 60.00% of mass 198	30.38
365	1.00 - 100.00% of mass 198	3.97
441	Present, but less than mass 443	20.53
442	50.00 - 150.00% of mass 198	139.93
443	15.00 - 24.00% of mass 442	27.62 (19.74)

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D

Date : 18-APR-2024 10:39

Client ID: DFTPP

Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS

Column diameter: 0.25

Data File: 01.D
Spectrum: Average Spectrum: 4.165 to 4.170 min. (SUB)
Location of Maximum: 442.00
Number of points: 308

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	244	129.00	40624	208.00	2115	300.00	77
38.00	784	130.00	3575	209.00	787	301.00	225
39.00	4091	131.00	702	210.00	691	302.00	396
40.00	241	132.00	334	211.00	2619	303.00	2580
41.00	102	133.00	85	212.00	316	304.00	619
45.00	185	134.00	1114	213.00	196	308.00	261
47.00	77	135.00	3151	215.00	724	309.00	174
49.00	408	136.00	1211	216.00	1479	310.00	240
50.00	16528	137.00	1465	217.00	18280	312.00	105
51.00	62088	138.00	288	218.00	2273	313.00	118
52.00	3211	139.00	258	219.00	275	314.00	1045
53.00	86	140.00	581	221.00	13468	315.00	2330
55.00	354	141.00	5048	223.00	4413	316.00	1380
56.00	2225	142.00	1704	224.00	39488	317.00	214
57.00	4437	143.00	1145	225.00	9861	321.00	708
58.00	213	144.00	319	226.00	1237	322.00	502
59.00	93	145.00	259	227.00	15741	323.00	7637
61.00	820	146.00	847	228.00	2192	324.00	1248
62.00	996	147.00	2610	229.00	3406	325.00	83
63.00	2992	148.00	5531	230.00	654	326.00	213
64.00	404	149.00	1260	231.00	1395	327.00	1339
65.00	1489	150.00	306	232.00	263	328.00	739
66.00	77	151.00	689	233.00	369	329.00	197
68.00	1330	152.00	397	234.00	998	332.00	530
69.00	75608	153.00	1674	235.00	1288	333.00	729
70.00	408	154.00	1331	236.00	713	334.00	5116
73.00	520	155.00	2941	237.00	1314	335.00	1387
74.00	7472	156.00	4519	238.00	197	336.00	81
75.00	12234	157.00	943	239.00	654	339.00	89
76.00	4036	158.00	851	240.00	561	341.00	826
77.00	79680	159.00	842	241.00	1046	342.00	249
78.00	5168	160.00	1695	242.00	2012	346.00	1618
79.00	5702	161.00	2544	243.00	2294	347.00	364
80.00	4359	162.00	776	244.00	32624	351.00	166
81.00	6057	163.00	166	245.00	4479	352.00	2331

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D

Date : 18-APR-2024 10:39

Client ID: DFTPP

Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS

Column diameter: 0.25

Data File: 01.D

Spectrum: Average Spectrum: 4.165 to 4.170 min. (SUB)

Location of Maximum: 442.00

Number of points: 308

m/z	Y	m/z	Y	m/z	Y	m/z	Y
82.00	1737	164.00	285	246.00	5704	353.00	1469
83.00	1343	165.00	2024	247.00	1212	354.00	2530
84.00	162	166.00	1773	248.00	329	355.00	561
85.00	1154	167.00	10349	249.00	1270	359.00	260
86.00	1464	168.00	4423	250.00	278	364.00	112
87.00	753	169.00	868	251.00	337	365.00	10437
88.00	337	170.00	367	252.00	432	366.00	1414
89.00	75	171.00	514	253.00	740	367.00	75
91.00	1569	172.00	960	255.00	170688	370.00	233
92.00	1659	173.00	1497	256.00	25096	371.00	588
93.00	10069	174.00	2141	257.00	1983	372.00	4617
94.00	680	175.00	4519	258.00	8939	373.00	1106
95.00	92	176.00	1409	259.00	1582	383.00	1150
96.00	425	177.00	2174	260.00	250	384.00	378
97.00	199	178.00	726	261.00	243	385.00	83
98.00	7421	179.00	8742	264.00	295	390.00	634
99.00	5189	180.00	5928	265.00	3703	391.00	442
100.00	450	181.00	2765	266.00	604	392.00	339
101.00	3694	182.00	411	270.00	214	401.00	178
102.00	194	183.00	299	271.00	344	402.00	1827
103.00	1310	184.00	735	272.00	599	403.00	2559
104.00	2350	185.00	4557	273.00	5441	404.00	850
105.00	2071	186.00	34080	274.00	13783	405.00	78
106.00	852	187.00	9952	275.00	79880	415.00	111
107.00	28048	188.00	866	276.00	10609	421.00	2499
108.00	4375	189.00	2159	277.00	6056	422.00	2422
109.00	546	190.00	335	278.00	997	423.00	17496
110.00	51232	191.00	1054	279.00	109	424.00	3958
111.00	8170	192.00	2816	281.00	100	425.00	349
112.00	914	193.00	3142	282.00	278	435.00	169
113.00	342	194.00	666	283.00	828	436.00	426
116.00	1637	195.00	610	284.00	410	437.00	287
117.00	21584	196.00	8042	285.00	1021	438.00	177
118.00	1450	197.00	996	286.00	242	439.00	927
119.00	133	198.00	262912	289.00	253	441.00	53968

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D

Date : 18-APR-2024 10:39

Client ID: DFTPP

Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS

Column diameter: 0.25

Data File: 01.D
Spectrum: Average Spectrum: 4.165 to 4.170 min. (SUB)
Location of Maximum: 442.00
Number of points: 308

m/z	Y	m/z	Y	m/z	Y	m/z	Y
120.00	336	199.00	17632	290.00	222	442.00	367872
121.00	78	200.00	1329	291.00	150	443.00	72608
122.00	1884	201.00	1426	292.00	373	444.00	7175
123.00	3095	203.00	1983	293.00	1312	445.00	468
124.00	1181	204.00	9352	294.00	366		
125.00	1276	205.00	16075	296.00	20920		
127.00	104440	206.00	67752	297.00	2863		
128.00	7946	207.00	8670	298.00	101		

Data File : \\nahstws005\target\chem\sv6.i\240418.b\01.d
Inj Date : 18-APR-2024 10:39
InstruID : SV6.i
LabSampID : DFTPP

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D
Report Date: 17-Jul-2024 16:41

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 18-APR-2024 10:39
Operator : smith Inst ID: SV6.i
Smp Info : DFTPP;DFTPP;3;;DFTPP
Misc Info :
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DFTPP.m
Meth Date : 14-Mar-2023 15:58 Linh.Pham Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: NAHSTW7095

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
4.170	5.571	-1.401	198	262912			0.00- 100.00	71.46
4.170	6.357	-2.187	51	62088			10.00- 80.00	23.62
4.170	6.357	-2.187	68	1330			0.00- 2.00	1.76
4.170	6.357	-2.187	69	75608			0.00- 0.00	28.76
4.170	6.357	-2.187	70	408			0.00- 2.00	0.54
4.170	6.357	-2.187	127	104440			10.00- 80.00	39.72
4.170	6.357	-2.187	197	996			0.00- 2.00	0.38
4.170	6.357	-2.187	199	17632			5.00- 9.00	6.71
4.170	6.357	-2.187	275	79880			10.00- 60.00	30.38
4.170	6.357	-2.187	365	10437			1.00- 100.00	3.97
4.170	6.357	-2.187	441	53968			0.01- 99.99	74.32
4.170	6.357	-2.187	442	367904			50.00- 150.00	139.93
4.170	6.357	-2.187	443	72612			15.00- 24.00	19.74

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D

Page 1

Date : 18-APR-2024 10:39

Client ID: DFTPP

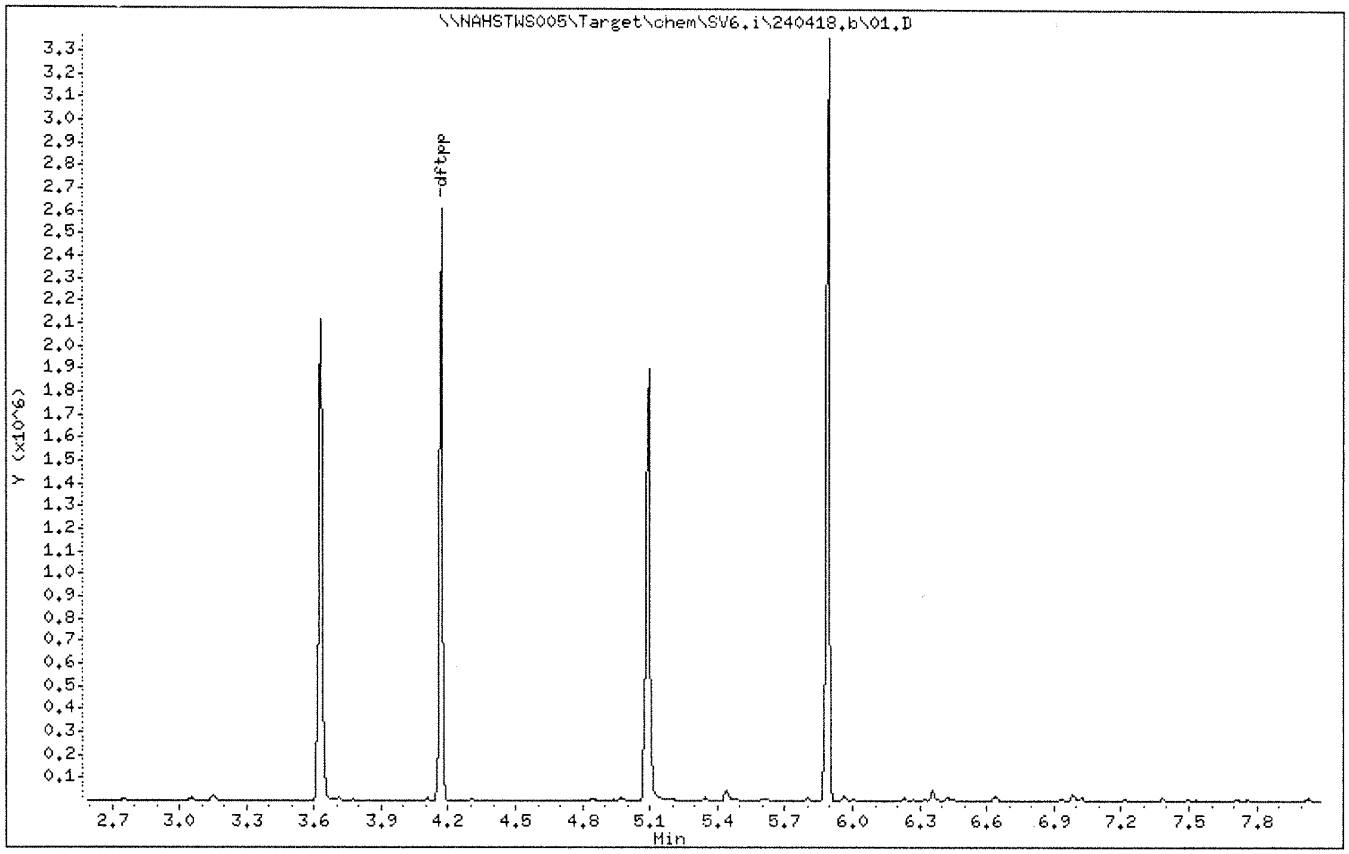
Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS

Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D

Date : 18-APR-2024 10:39

Client ID: DFTPP

Instrument: SV6.i

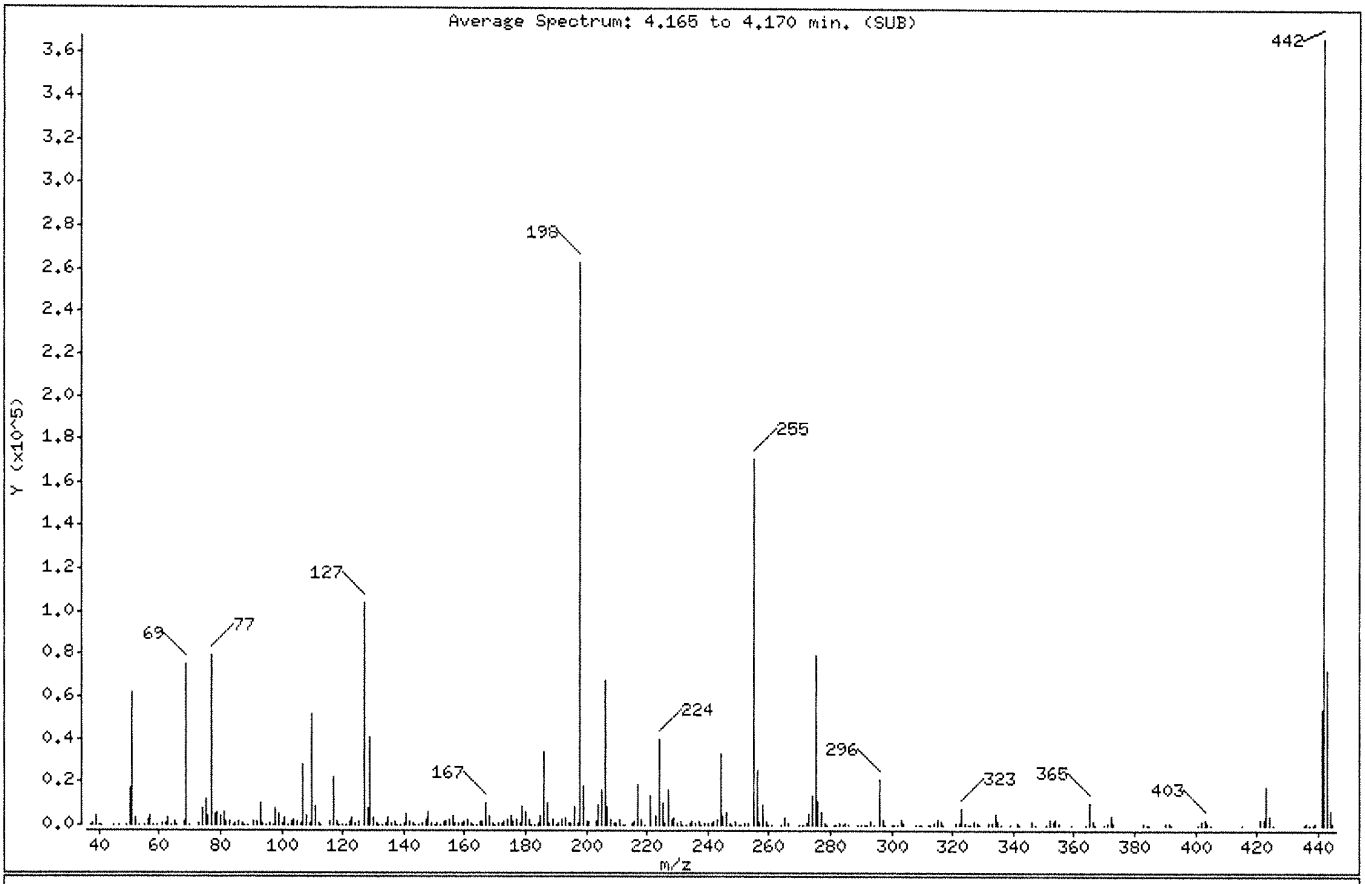
Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	23.62
68	Less than 2.00% of mass 69	0.51 (1.76)
69	Mass 69 relative abundance	28.76
70	Less than 2.00% of mass 69	0.16 (0.54)
127	10.00 - 80.00% of mass 198	39.72
197	Less than 2.00% of mass 198	0.38
199	5.00 - 9.00% of mass 198	6.71
275	10.00 - 60.00% of mass 198	30.38
365	1.00 - 100.00% of mass 198	3.97
441	Present, but less than mass 443	20.53
442	50.00 - 150.00% of mass 198	139.93
443	15.00 - 24.00% of mass 442	27.62 (19.74)

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D

Date : 18-APR-2024 10:39

Client ID: DFTPP

Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS

Column diameter: 0.25

Data File: 01.D
Spectrum: Average Spectrum: 4.165 to 4.170 min. (SUB)
Location of Maximum: 442.00
Number of points: 308

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	244	129.00	40624	208.00	2115	300.00	77
38.00	784	130.00	3575	209.00	787	301.00	225
39.00	4091	131.00	702	210.00	691	302.00	396
40.00	241	132.00	334	211.00	2619	303.00	2580
41.00	102	133.00	85	212.00	316	304.00	619
45.00	185	134.00	1114	213.00	196	308.00	261
47.00	77	135.00	3151	215.00	724	309.00	174
49.00	408	136.00	1211	216.00	1479	310.00	240
50.00	16528	137.00	1465	217.00	18280	312.00	105
51.00	62088	138.00	288	218.00	2273	313.00	118
52.00	3211	139.00	258	219.00	275	314.00	1045
53.00	86	140.00	581	221.00	13468	315.00	2330
55.00	354	141.00	5048	223.00	4413	316.00	1380
56.00	2225	142.00	1704	224.00	39488	317.00	214
57.00	4437	143.00	1145	225.00	9861	321.00	708
58.00	213	144.00	319	226.00	1237	322.00	502
59.00	93	145.00	259	227.00	15741	323.00	7637
61.00	820	146.00	847	228.00	2192	324.00	1248
62.00	996	147.00	2610	229.00	3406	325.00	83
63.00	2992	148.00	5531	230.00	654	326.00	213
64.00	404	149.00	1260	231.00	1395	327.00	1339
65.00	1489	150.00	306	232.00	263	328.00	739
66.00	77	151.00	689	233.00	369	329.00	197
68.00	1330	152.00	397	234.00	998	332.00	530
69.00	75608	153.00	1674	235.00	1288	333.00	729
70.00	408	154.00	1331	236.00	713	334.00	5116
73.00	520	155.00	2941	237.00	1314	335.00	1387
74.00	7472	156.00	4519	238.00	197	336.00	81
75.00	12234	157.00	943	239.00	654	339.00	89
76.00	4036	158.00	851	240.00	561	341.00	826
77.00	79680	159.00	842	241.00	1046	342.00	249
78.00	5168	160.00	1695	242.00	2012	346.00	1618
79.00	5702	161.00	2544	243.00	2294	347.00	364
80.00	4359	162.00	776	244.00	32624	351.00	166
81.00	6057	163.00	166	245.00	4479	352.00	2331

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D

Date : 18-APR-2024 10:39

Client ID: DFTPP

Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS

Column diameter: 0.25

Data File: 01.D
Spectrum: Average Spectrum: 4.165 to 4.170 min. (SUB)
Location of Maximum: 442.00
Number of points: 308

m/z	Y	m/z	Y	m/z	Y	m/z	Y
82.00	1737	164.00	285	246.00	5704	353.00	1469
83.00	1343	165.00	2024	247.00	1212	354.00	2530
84.00	162	166.00	1773	248.00	329	355.00	561
85.00	1154	167.00	10349	249.00	1270	359.00	260
86.00	1464	168.00	4423	250.00	278	364.00	112
87.00	753	169.00	868	251.00	337	365.00	10437
88.00	337	170.00	367	252.00	432	366.00	1414
89.00	75	171.00	514	253.00	740	367.00	75
91.00	1569	172.00	960	255.00	170688	370.00	233
92.00	1659	173.00	1497	256.00	25096	371.00	588
93.00	10069	174.00	2141	257.00	1983	372.00	4617
94.00	680	175.00	4519	258.00	8939	373.00	1106
95.00	92	176.00	1409	259.00	1582	383.00	1150
96.00	425	177.00	2174	260.00	250	384.00	378
97.00	199	178.00	726	261.00	243	385.00	83
98.00	7421	179.00	8742	264.00	295	390.00	634
99.00	5189	180.00	5928	265.00	3703	391.00	442
100.00	450	181.00	2765	266.00	604	392.00	339
101.00	3694	182.00	411	270.00	214	401.00	178
102.00	194	183.00	299	271.00	344	402.00	1827
103.00	1310	184.00	735	272.00	599	403.00	2559
104.00	2350	185.00	4557	273.00	5441	404.00	850
105.00	2071	186.00	34080	274.00	13783	405.00	78
106.00	852	187.00	9952	275.00	79880	415.00	111
107.00	28048	188.00	866	276.00	10609	421.00	2499
108.00	4375	189.00	2159	277.00	6056	422.00	2422
109.00	546	190.00	335	278.00	997	423.00	17496
110.00	51232	191.00	1054	279.00	109	424.00	3958
111.00	8170	192.00	2816	281.00	100	425.00	349
112.00	914	193.00	3142	282.00	278	435.00	169
113.00	342	194.00	666	283.00	828	436.00	426
116.00	1637	195.00	610	284.00	410	437.00	287
117.00	21584	196.00	8042	285.00	1021	438.00	177
118.00	1450	197.00	996	286.00	242	439.00	927
119.00	133	198.00	262912	289.00	253	441.00	53968

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D

Date : 18-APR-2024 10:39

Client ID: DFTPP

Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS

Column diameter: 0.25

Data File: 01.D
Spectrum: Average Spectrum: 4.165 to 4.170 min. (SUB)
Location of Maximum: 442.00
Number of points: 308

m/z	Y	m/z	Y	m/z	Y	m/z	Y
120.00	336	199.00	17632	290.00	222	442.00	367872
121.00	78	200.00	1329	291.00	150	443.00	72608
122.00	1884	201.00	1426	292.00	373	444.00	7175
123.00	3095	203.00	1983	293.00	1312	445.00	468
124.00	1181	204.00	9352	294.00	366		
125.00	1276	205.00	16075	296.00	20920		
127.00	104440	206.00	67752	297.00	2863		
128.00	7946	207.00	8670	298.00	101		

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D Page 1
Report Date: 17-Jul-2024 16:41

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Lab Smp Id: 14DX-0.08 Client Smp ID: 14DX-0.08
Inj Date : 18-APR-2024 12:24
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 12:24 Cal File: 03A.D
Als bottle: 3 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)	
* 20 1,4-Dichlorobenzene-d4	152	2.089	2.089	(1.000)	3251	0.10000		(aQM)
* 45 Naphthalene-d8	136	3.076	3.076	(1.000)	10577	0.10000		(M)
$ 33 Nitrobenzene-d5	82	2.497	2.502	(0.812)	2161	0.08000	0.06806	(M)
* 86 Acenaphthene-d10	164	4.665	4.671	(1.000)	6678	0.10000		(M)
$ 69 2-Fluorobiphenyl	172	4.064	4.067	(0.871)	6691	0.08000	0.06554	(M)
* 126 Phenanthrene-d10	188	6.066	6.065	(1.000)	13232	0.10000		(M)
* 182 Chrysene-d12	240	8.604	8.599	(1.000)	12125	0.10000		(M)
$ 158 4-Terphenyl-d14	244	7.636	7.630	(0.887)	14251	0.08000	0.05769	(M)
* 198 Perylene-d12	264	10.195	10.189	(1.000)	11098	0.10000		(M)
1 1,4-Dioxane	58	0.834	0.820	(0.400)	503	0.08000	0.07223	(QM)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D

Date : 18-APR-2024 12:24

Client ID: 14DX-0.08

Instrument: SV6.i

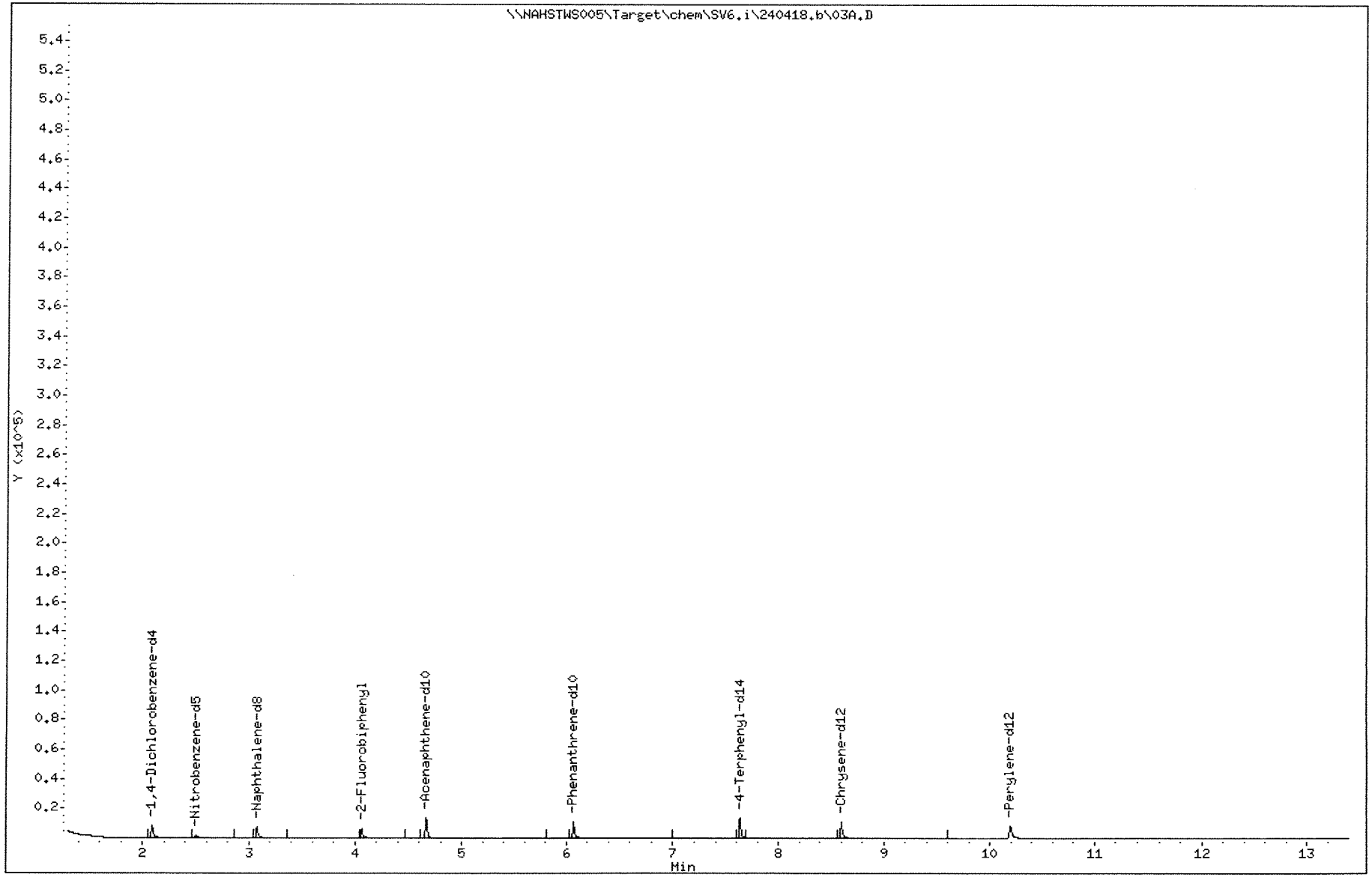
Sample Info: 14DX-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

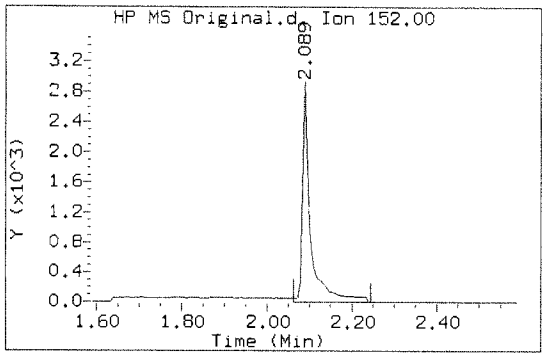


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Inj Date : 18-APR-2024 12:24
InstruID : SV6.i
LabSampID : 14DX-0.08

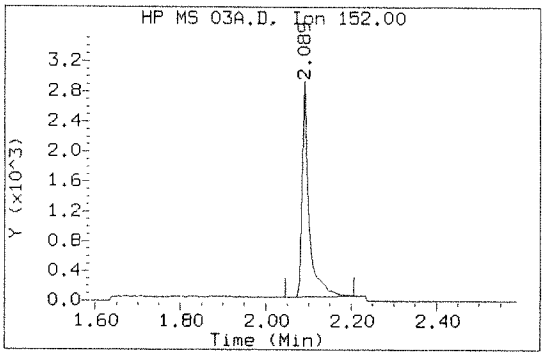
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

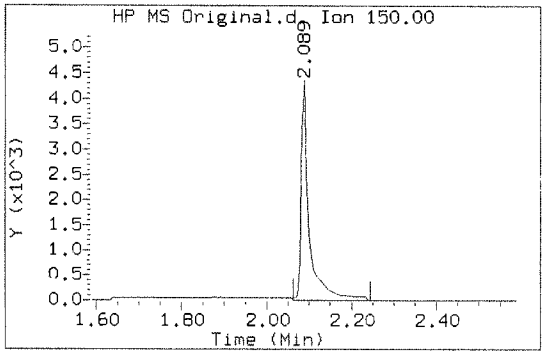
BEFORE
MASS
152
AREA
3915
HEIGHT
2934
18-Apr-2024
12:42
ALSHS
Server



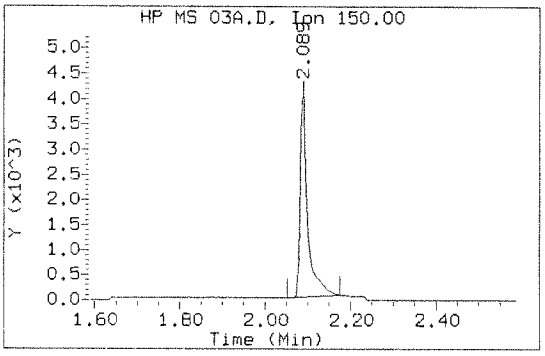
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HEIGHT
2876
28-May-2024
13:05



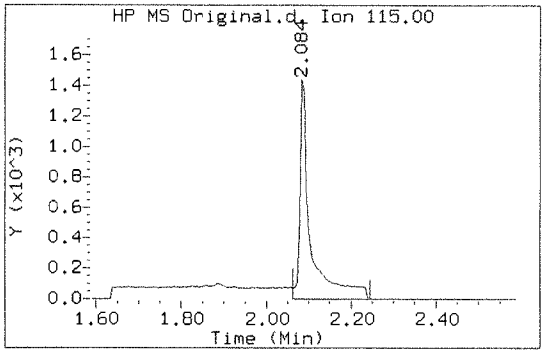
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AREA
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18-Apr-2024
12:42
ALSHS
Server



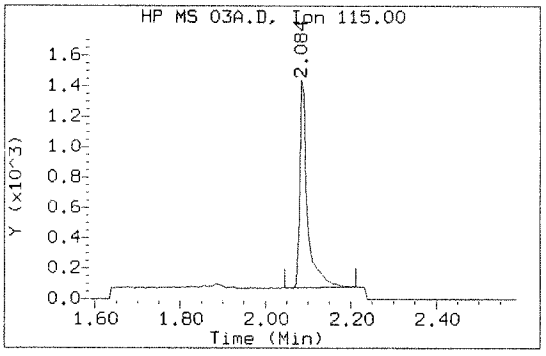
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AREA
4924
HEIGHT
4290
28-May-2024
13:05



BEFORE
MASS
115
AREA
2519
HEIGHT
1442
18-Apr-2024
12:42
ALSHS
Server



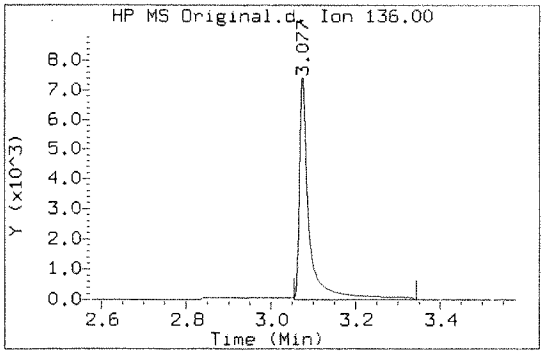
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HEIGHT
1365
28-May-2024
13:05



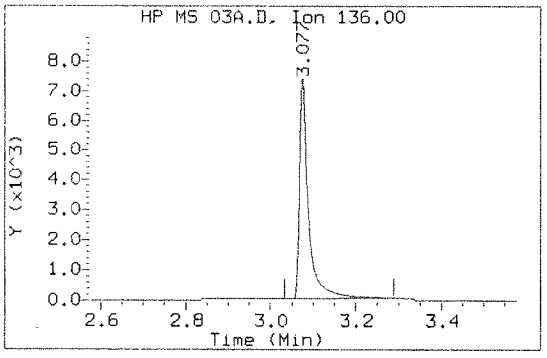
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
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136
AREA
11842
HEIGHT
7402
18-Apr-2024
12:42
ALSHS
Server



AFTER
MASS
136
AREA
10577
HEIGHT
7340
28-May-2024
13:05

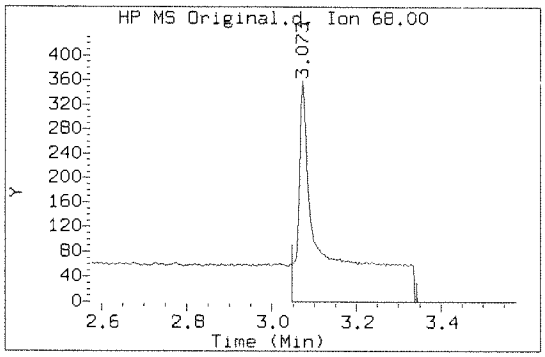


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Inj Date : 18-APR-2024 12:24
InstruID : SV6.i
LabSampID : 14DX-0.08

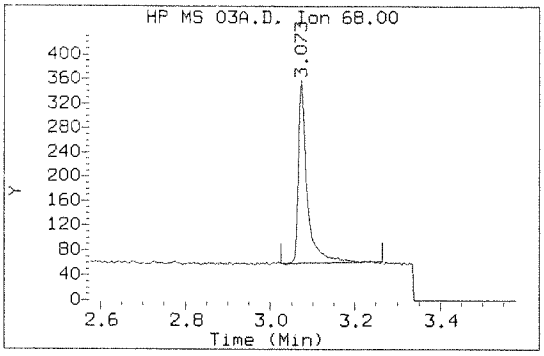
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
68
AREA
1473
HEIGHT
359
18-Apr-2024
12:42
ALSHS
Server



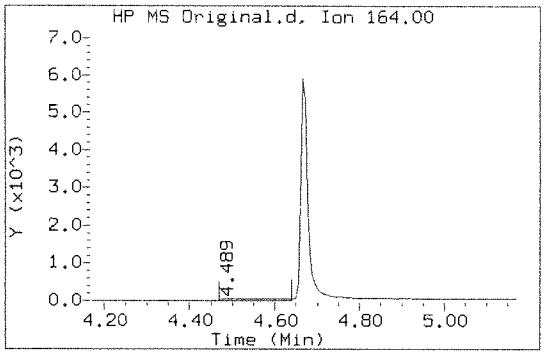
AFTER
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68
AREA
417
HEIGHT
299
28-May-2024
13:05



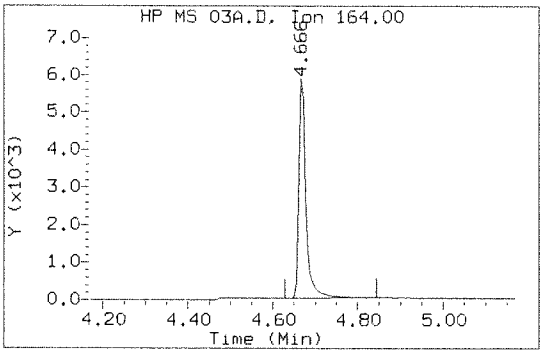
Acenaphthene-d10 (15067-26-2)

Reason Code:

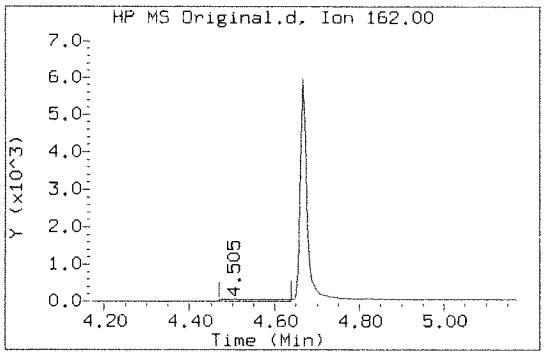
BEFORE
MASS
164
AREA
527
HEIGHT
53
18-Apr-2024
12:42
ALSHS
Server



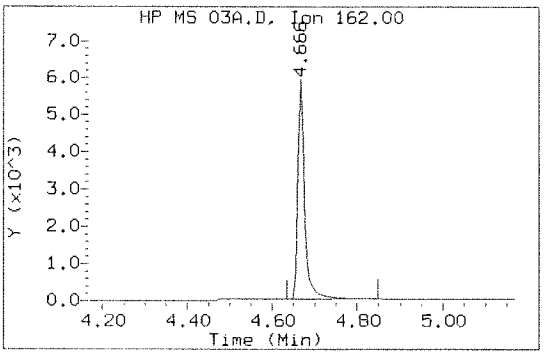
AFTER
MASS
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AREA
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HEIGHT
5851
28-May-2024
13:05



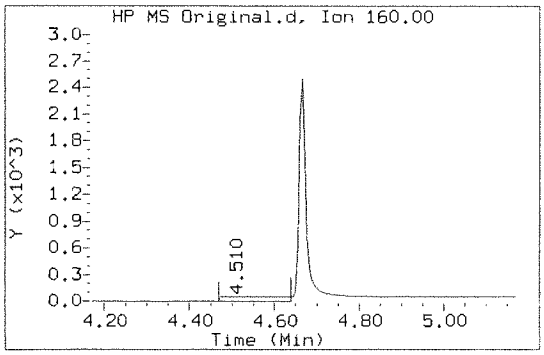
BEFORE
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AREA
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HEIGHT
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18-Apr-2024
12:42
ALSHS
Server



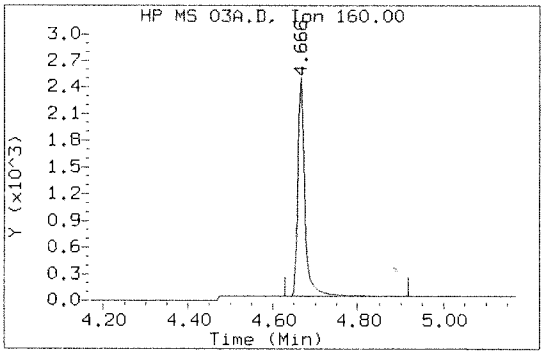
AFTER
MASS
162
AREA
6371
HEIGHT
5906
28-May-2024
13:05



BEFORE
MASS
160
AREA
507
HEIGHT
51
18-Apr-2024
12:42
ALSHS
Server



AFTER
MASS
160
AREA
2763
HEIGHT
2449
28-May-2024
13:05

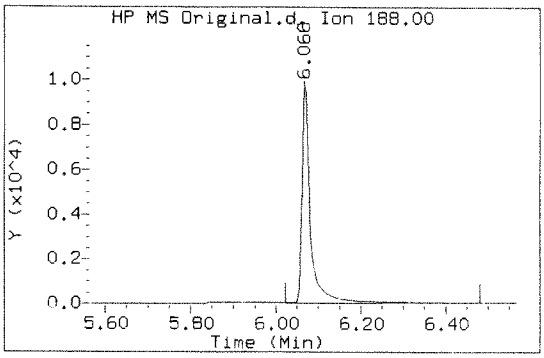


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Inj Date : 18-APR-2024 12:24
InstruID : SV6.i
LabSampID : 14DX-0.08

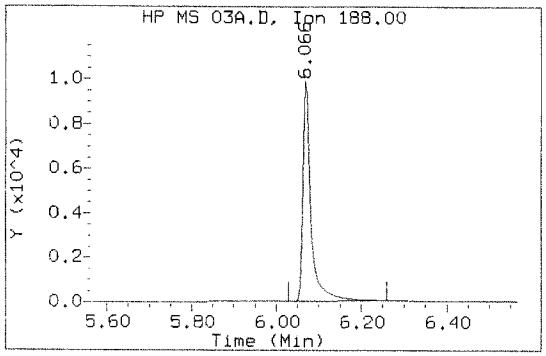
Phenanthrene-d10 (1517-22-2)

Reason Code:

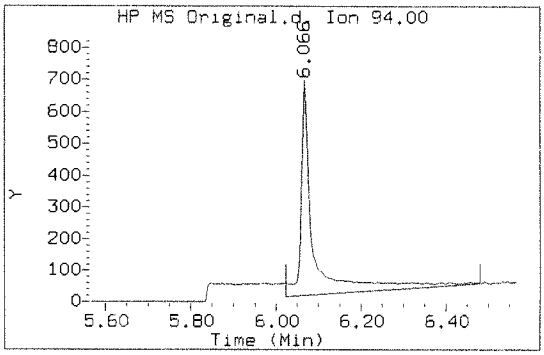
BEFORE
MASS
188
AREA
14212
HEIGHT
9923
18-Apr-2024
12:42
ALSHS
Server



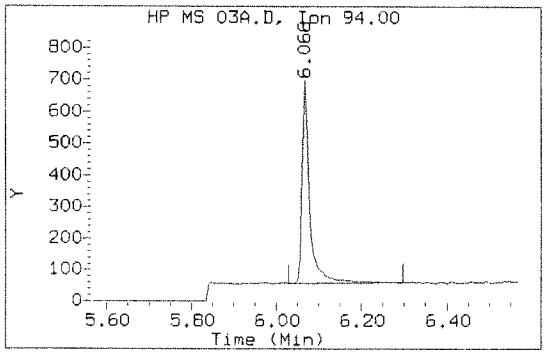
AFTER
MASS
188
AREA
13232
HEIGHT
9886
28-May-2024
13:05



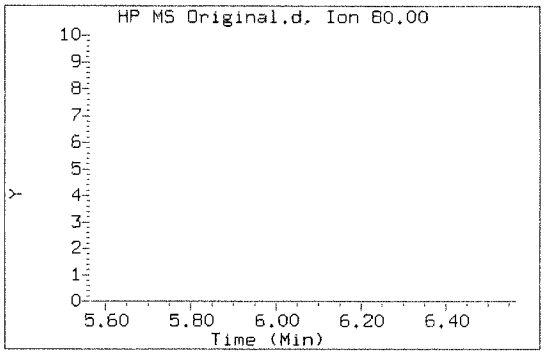
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MASS
94
AREA
1408
HEIGHT
677
18-Apr-2024
12:42
ALSHS
Server



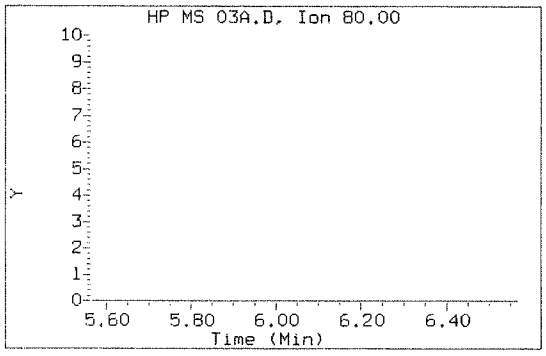
AFTER
MASS
94
AREA
802
HEIGHT
640
28-May-2024
13:05



BEFORE
MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
12:42
ALSHS
Server



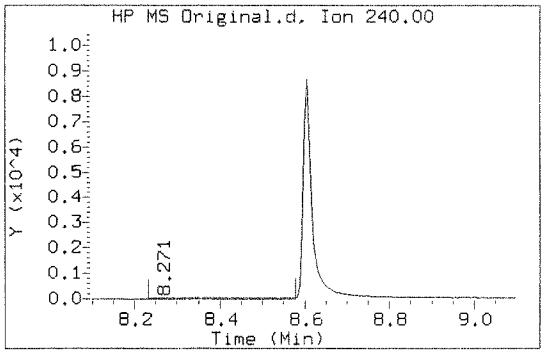
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MASS
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AREA
0
HEIGHT
0
28-May-2024
13:05



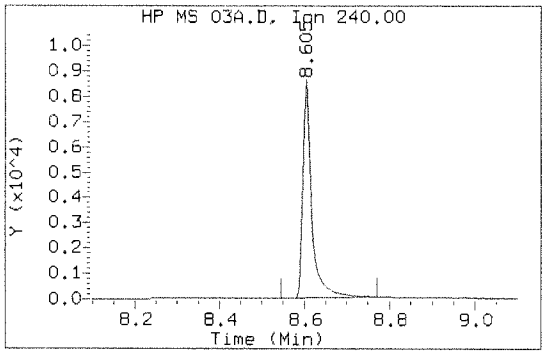
Chrysene-d12 (1719-03-5)

Reason Code:

BEFORE
MASS
240
AREA
1046
HEIGHT
58
18-Apr-2024
12:42
ALSHS
Server



AFTER
MASS
240
AREA
12125
HEIGHT
8606
28-May-2024
13:05

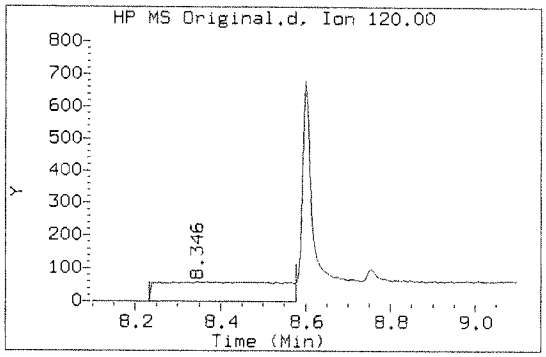


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Inj Date : 18-APR-2024 12:24
InstruID : SV6.i
LabSampID : 14DX-0.08

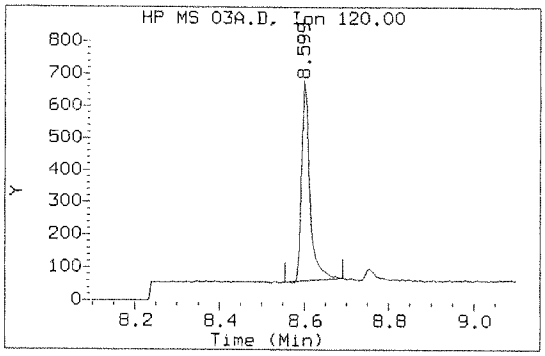
Chrysene-d12 (1719-03-5)

Reason Code:

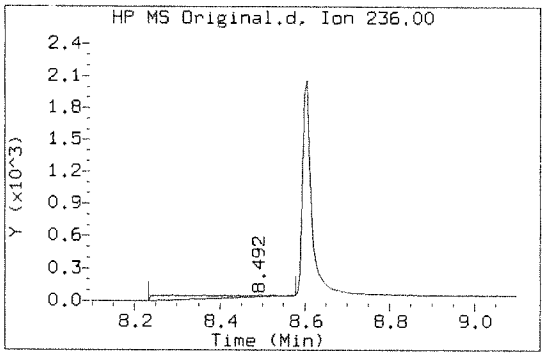
BEFORE
MASS
120
AREA
1175
HEIGHT
59
18-Apr-2024
12:42
ALSHS
Server



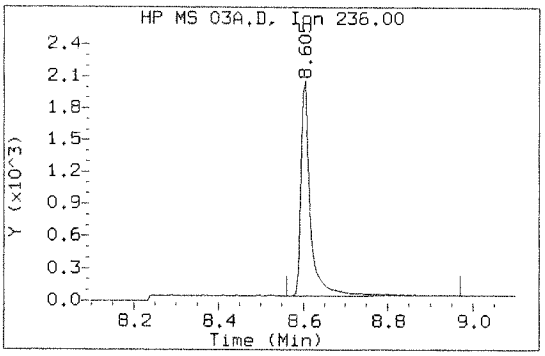
AFTER
MASS
120
AREA
821
HEIGHT
619
28-May-2024
13:05



BEFORE
MASS
236
AREA
485
HEIGHT
13
18-Apr-2024
12:42
ALSHS
Server



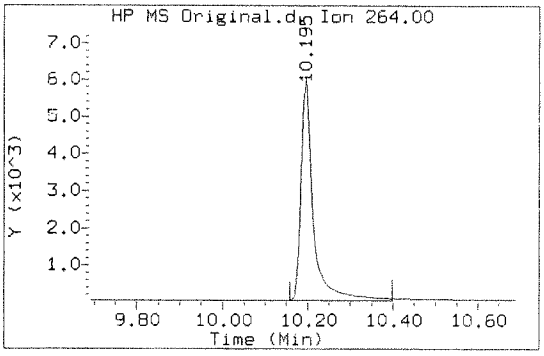
AFTER
MASS
236
AREA
3066
HEIGHT
2012
28-May-2024
13:05



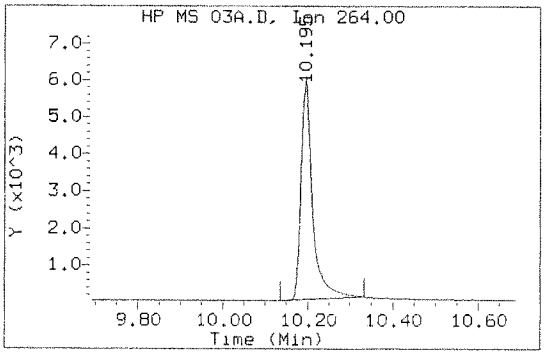
Perylene-d12 (1520-96-3)

Reason Code:

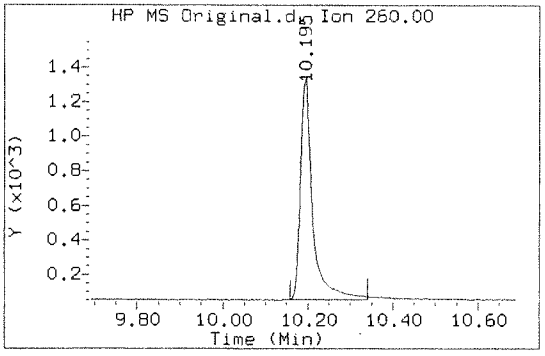
BEFORE
MASS
264
AREA
11914
HEIGHT
5992
18-Apr-2024
12:42
ALSHS
Server



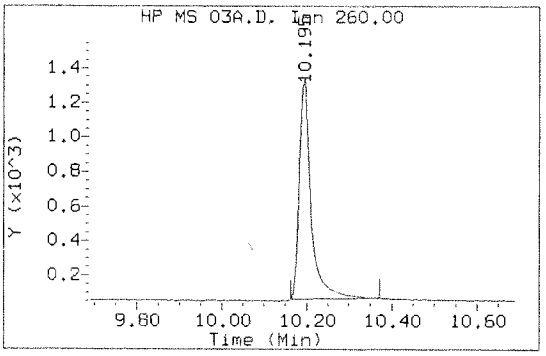
AFTER
MASS
264
AREA
11098
HEIGHT
5966
28-May-2024
13:05



BEFORE
MASS
260
AREA
2543
HEIGHT
1286
18-Apr-2024
12:42
ALSHS
Server



AFTER
MASS
260
AREA
2442
HEIGHT
1278
28-May-2024
13:05

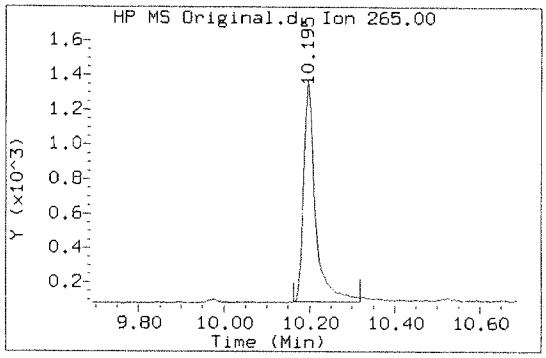


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Inj Date : 18-APR-2024 12:24
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LabSampID : 14DX-0.08

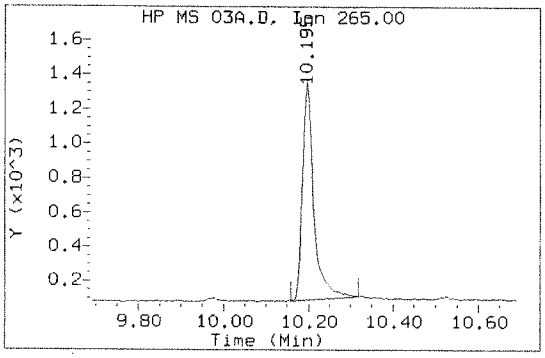
Perylene-d12 (1520-96-3)

Reason Code:

BEFORE
MASS
265
AREA
2459
HEIGHT
1281
18-Apr-2024
12:42
ALSHS
Server



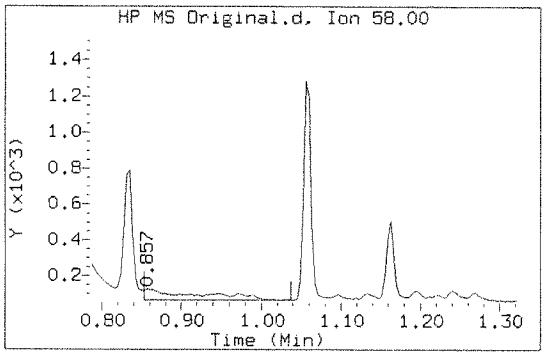
AFTER
MASS
265
AREA
2359
HEIGHT
1277
28-May-2024
13:05



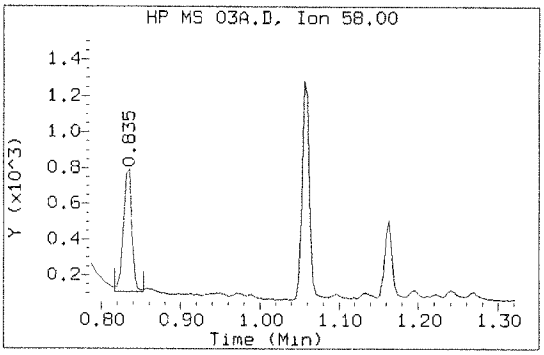
1,4-Dioxane ()

Reason Code:

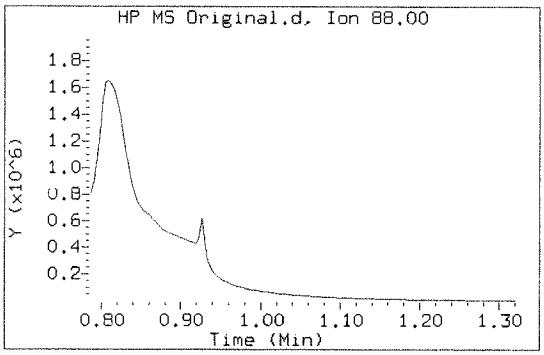
BEFORE
MASS
58
AREA
288
HEIGHT
59
18-Apr-2024
12:42
ALSHS
Server



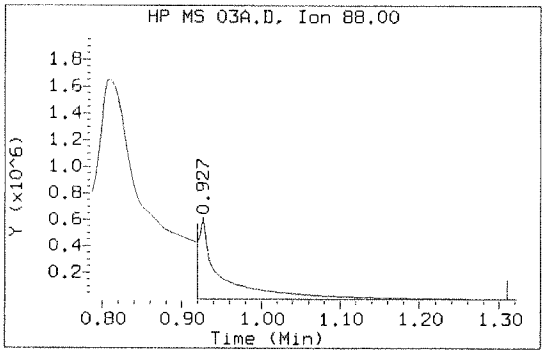
AFTER
MASS
58
AREA
503
HEIGHT
686
28-May-2024
13:05



BEFORE
MASS
88
AREA
1284716
HEIGHT
617517
18-Apr-2024
12:42
ALSHS
Server



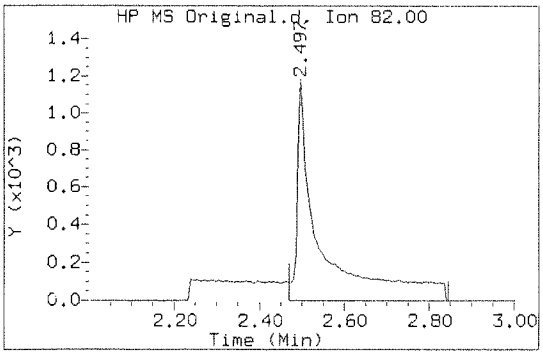
AFTER
MASS
88
AREA
1274387
HEIGHT
617067
28-May-2024
13:05



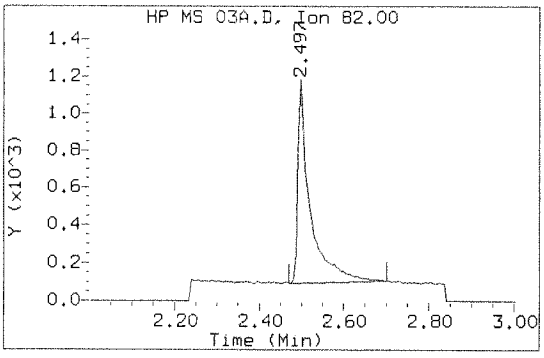
Nitrobenzene-d5 (4165-60-0)

Reason Code:

BEFORE
MASS
82
AREA
4330
HEIGHT
1185
18-Apr-2024
12:42
ALSHS
Server



AFTER
MASS
82
AREA
2161
HEIGHT
1090
28-May-2024
13:05

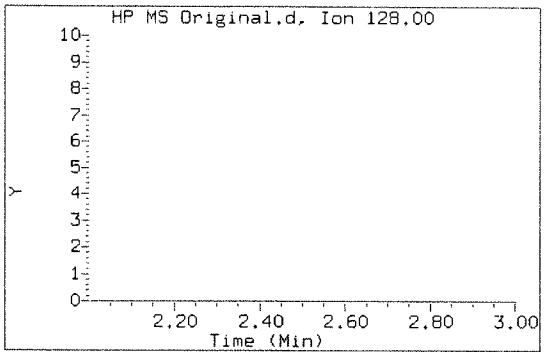


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Inj Date : 18-APR-2024 12:24
InstruID : SV6.i
LabSampID : 14DX-0.08

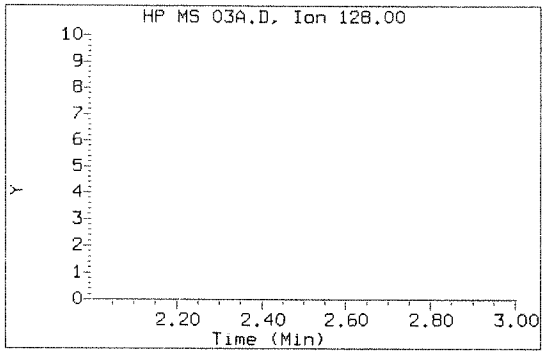
Nitrobenzene-d5 (4165-60-0)

Reason Code:

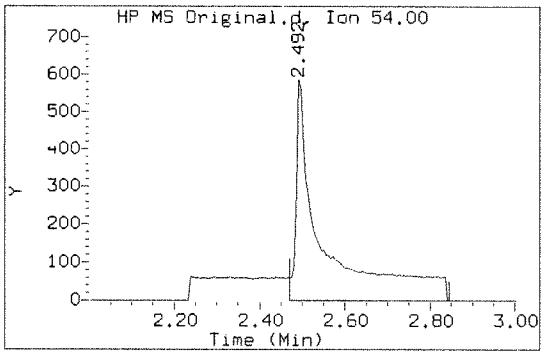
BEFORE
MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
12:42
ALSHS
Server



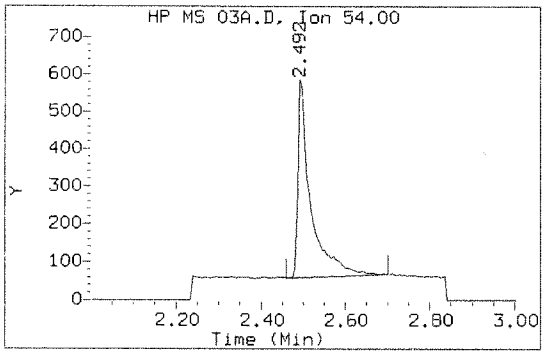
AFTER
MASS
128
AREA
0
HEIGHT
0
28-May-2024
13:05



BEFORE
MASS
54
AREA
2489
HEIGHT
586
18-Apr-2024
12:42
ALSHS
Server



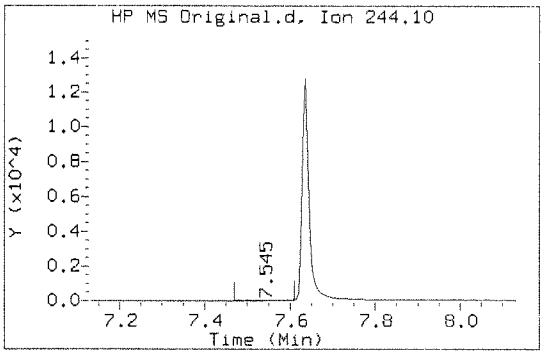
AFTER
MASS
54
AREA
1100
HEIGHT
526
28-May-2024
13:05



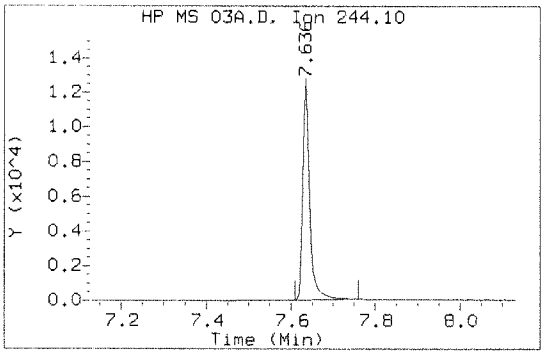
4-Terphenyl-d14 (1718-51-0)

Reason Code:

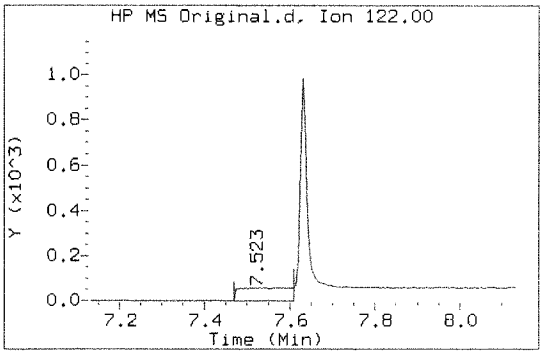
BEFORE
MASS
244.1
AREA
193
HEIGHT
23
18-Apr-2024
12:42
ALSHS
Server



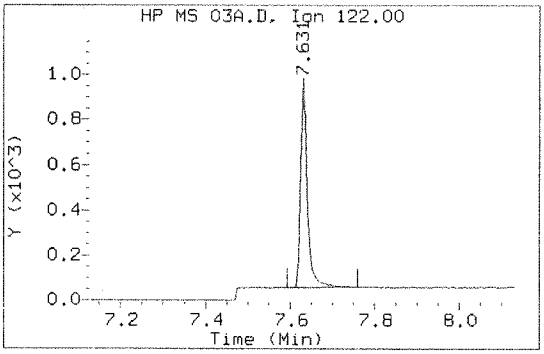
AFTER
MASS
244.1
AREA
14251
HEIGHT
12746
28-May-2024
13:05



BEFORE
MASS
122
AREA
473
HEIGHT
58
18-Apr-2024
12:42
ALSHS
Server



AFTER
MASS
122
AREA
1008
HEIGHT
928
28-May-2024
13:05



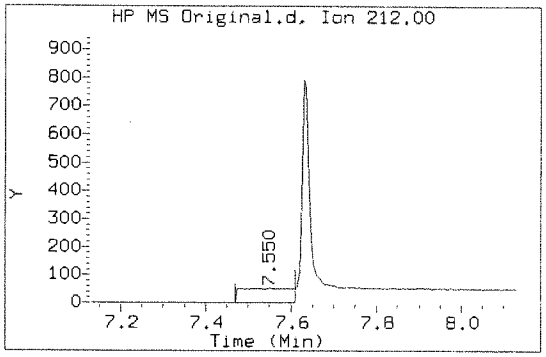
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Inj Date : 18-APR-2024 12:24
InstruID : SV6.i
LabSampID : 14DX-0.08

4-Terphenyl-d14 (1718-51-0)

Reason Code:

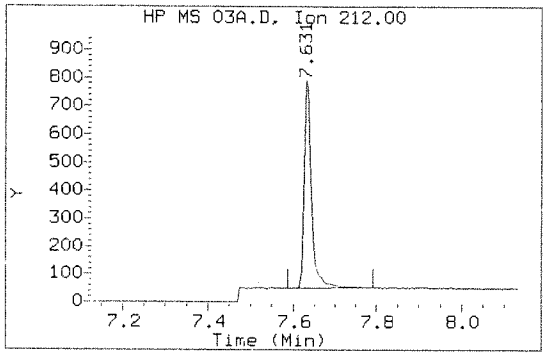
BEFORE

MASS
212
AREA
422
HEIGHT
53
18-Apr-2024
12:42
ALSHS
Server



AFTER

MASS
212
AREA
890
HEIGHT
741
28-May-2024
13:05

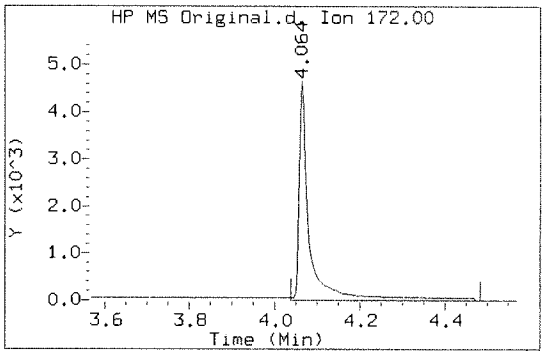


2-Fluorobiphenyl (321-60-8)

Reason Code:

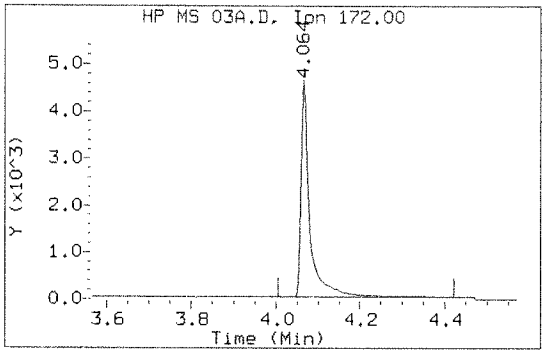
BEFORE

MASS
172
AREA
8151
HEIGHT
4659
18-Apr-2024
12:42
ALSHS
Server



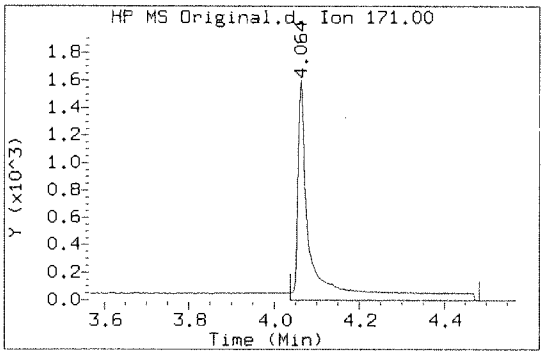
AFTER

MASS
172
AREA
6691
HEIGHT
4608
28-May-2024
13:05



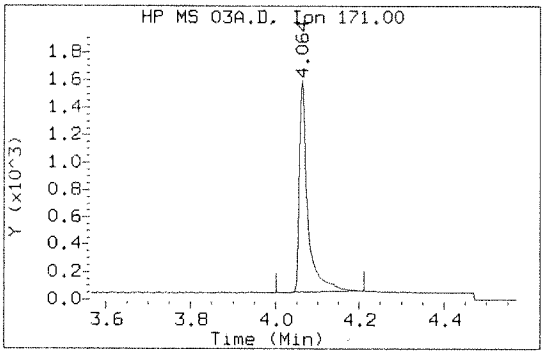
BEFORE

MASS
171
AREA
3618
HEIGHT
1599
18-Apr-2024
12:42
ALSHS
Server



AFTER

MASS
171
AREA
2124
HEIGHT
1543
28-May-2024
13:05



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D Page 1
Report Date: 17-Jul-2024 16:41

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Lab Smp Id: 14DX-0.01
Inj Date : 18-APR-2024 12:49
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.01
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 12:49 Cal File: 04.D
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)	
* 20 1,4-Dichlorobenzene-d4	152	2.089	2.089	(1.000)	3248	0.10000		(aM)
* 45 Naphthalene-d8	136	3.073	3.076	(1.000)	10308	0.10000		(M)
$ 33 Nitrobenzene-d5	82	2.497	2.502	(0.813)	262	0.01000	0.008466	(M)
* 86 Acenaphthene-d10	164	4.665	4.671	(1.000)	6420	0.10000		(M)
$ 69 2-Fluorobiphenyl	172	4.064	4.067	(0.871)	1018	0.01000	0.01037	(M)
* 126 Phenanthrene-d10	188	6.066	6.065	(1.000)	12867	0.10000		(M)
* 182 Chrysene-d12	240	8.604	8.599	(1.000)	11333	0.10000		(M)
$ 158 4-Terphenyl-d14	244	7.636	7.630	(0.887)	2521	0.01000	0.01092	(M)
* 198 Perylene-d12	264	10.195	10.189	(1.000)	12071	0.10000		(M)
1 1,4-Dioxane	58	0.838	0.820	(0.401)	87	0.01000	0.01250	(QM)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D

Date : 18-APR-2024 12:49

Client ID:

Instrument: SV6.i

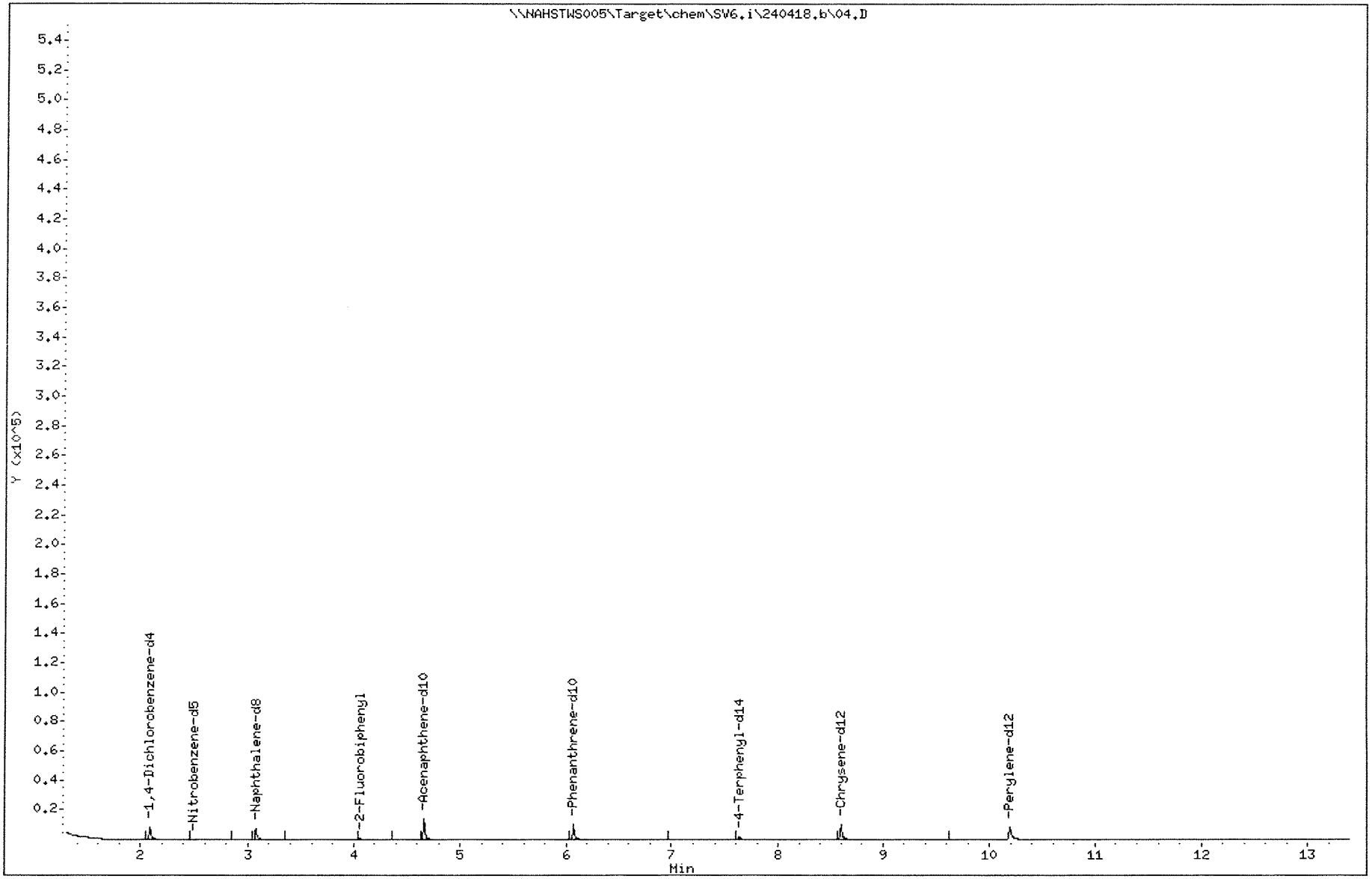
Sample Info: 14DX-0.01

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

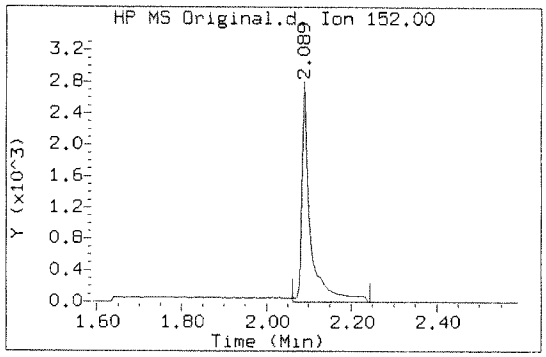


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Inj Date : 18-APR-2024 12:49
InstruID : SV6.i
LabSampID : 14DX-0.01

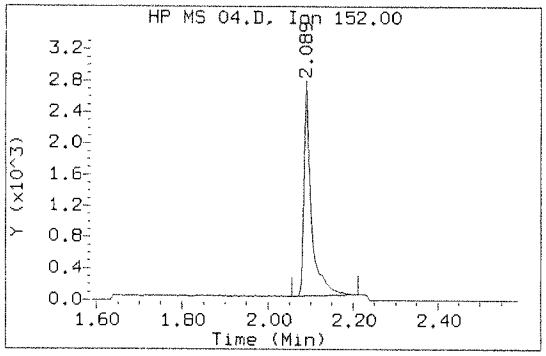
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

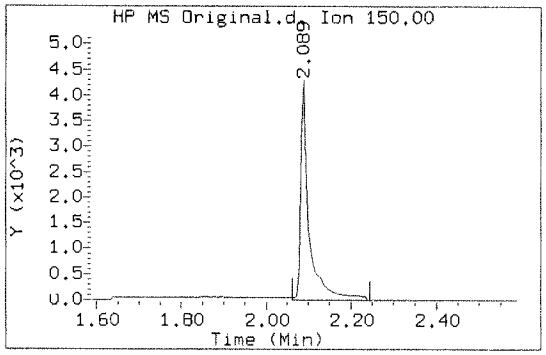
BEFORE
MASS
152
AREA
3912
HEIGHT
2804
18-Apr-2024
13:10
ALSHS
Server



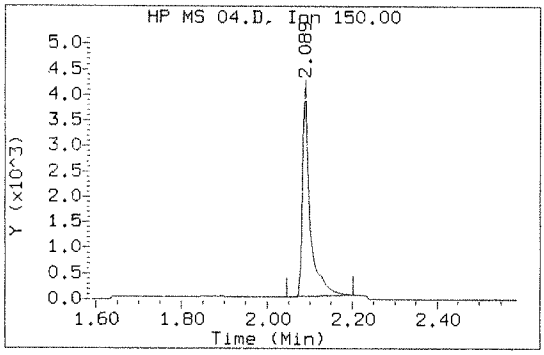
AFTER
MASS
152
AREA
3248
HEIGHT
2748
28-May-2024
13:05



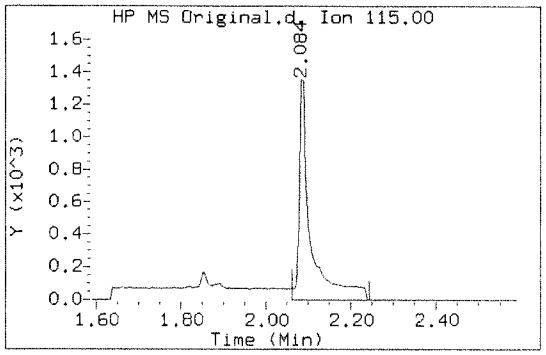
BEFORE
MASS
150
AREA
5830
HEIGHT
4294
18-Apr-2024
13:10
ALSHS
Server



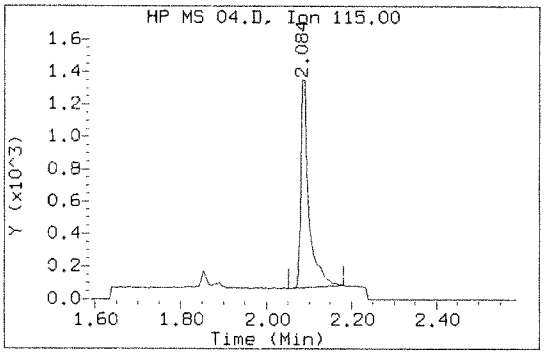
AFTER
MASS
150
AREA
5043
HEIGHT
4231
28-May-2024
13:05



BEFORE
MASS
115
AREA
2502
HEIGHT
1353
18-Apr-2024
13:10
ALSHS
Server



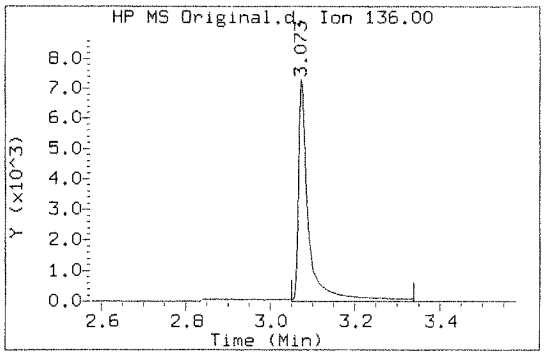
AFTER
MASS
115
AREA
1663
HEIGHT
1280
28-May-2024
13:05



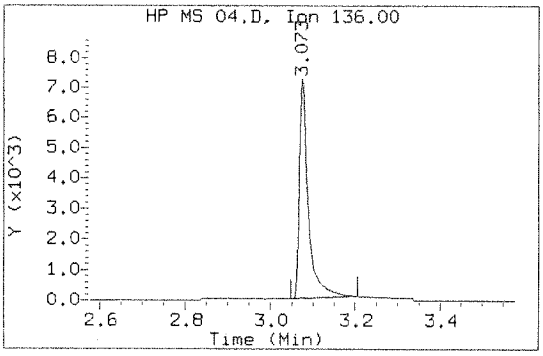
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
12033
HEIGHT
7318
18-Apr-2024
13:10
ALSHS
Server



AFTER
MASS
136
AREA
10308
HEIGHT
7248
28-May-2024
13:05

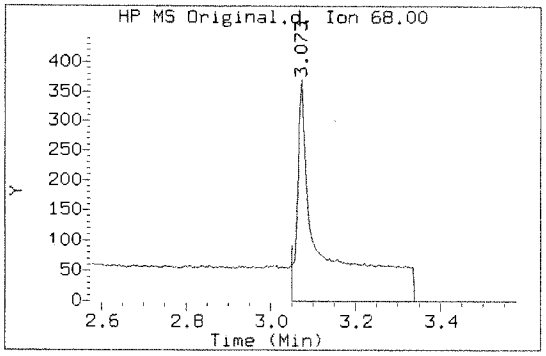


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Inj Date : 18-APR-2024 12:49
InstruID : SV6.i
LabSampID : 14DX-0.01

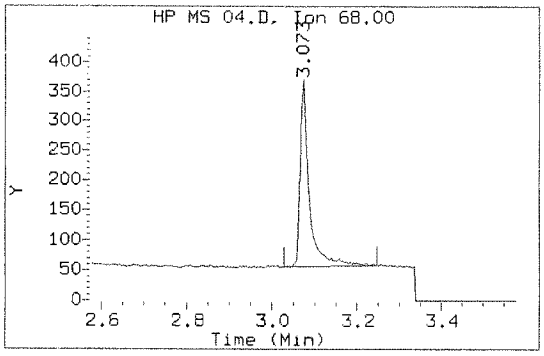
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
68
AREA
1444
HEIGHT
371
18-Apr-2024
13:10
ALSHS
Server



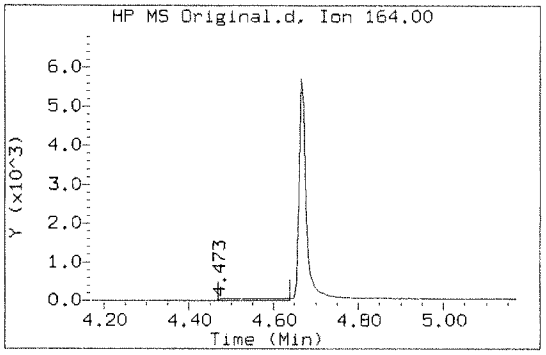
AFTER
MASS
68
AREA
448
HEIGHT
313
28-May-2024
13:05



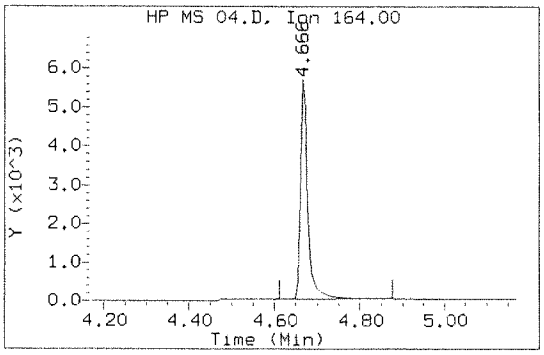
Acenaphthene-d10 (15067-26-2)

Reason Code:

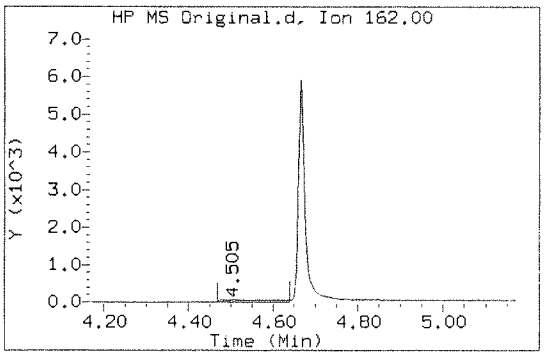
BEFORE
MASS
164
AREA
515
HEIGHT
52
18-Apr-2024
13:10
ALSHS
Server



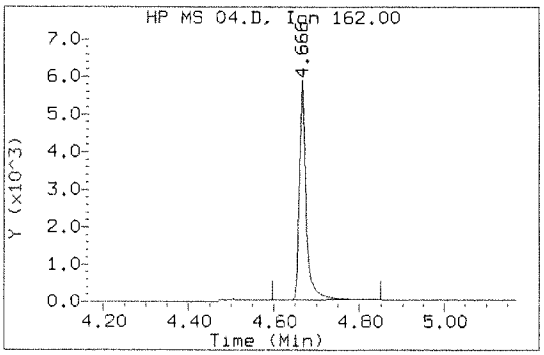
AFTER
MASS
164
AREA
6420
HEIGHT
5670
28-May-2024
13:05



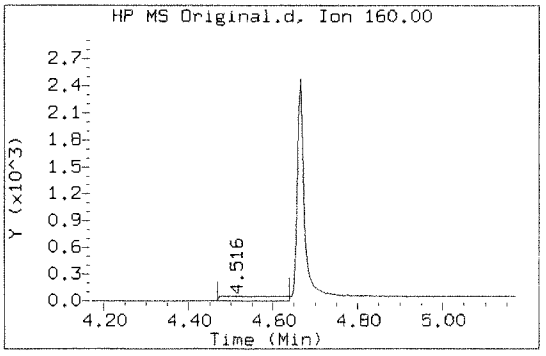
BEFORE
MASS
162
AREA
528
HEIGHT
60
18-Apr-2024
13:10
ALSHS
Server



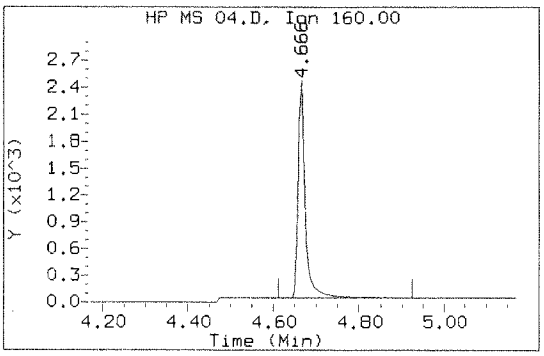
AFTER
MASS
162
AREA
6187
HEIGHT
5861
28-May-2024
13:05



BEFORE
MASS
160
AREA
499
HEIGHT
51
18-Apr-2024
13:10
ALSHS
Server



AFTER
MASS
160
AREA
2756
HEIGHT
2428
28-May-2024
13:05

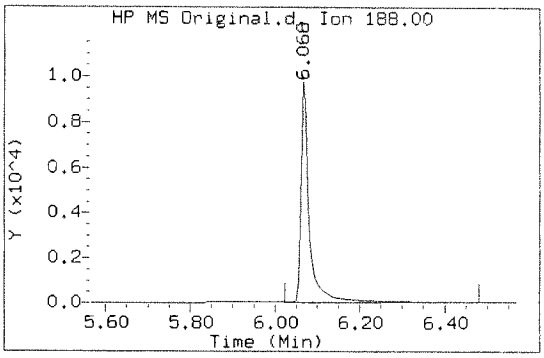


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Inj Date : 18-APR-2024 12:49
InstruID : SV6.i
LabSampID : 14DX-0.01

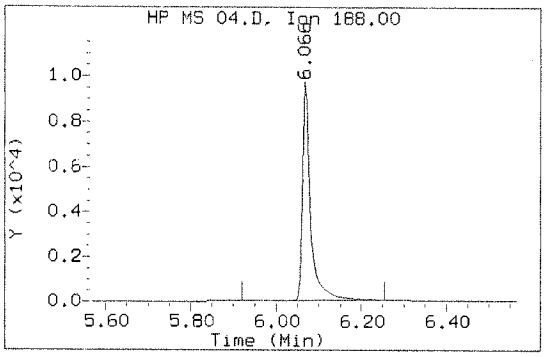
Phenanthrene-d10 (1517-22-2)

Reason Code:

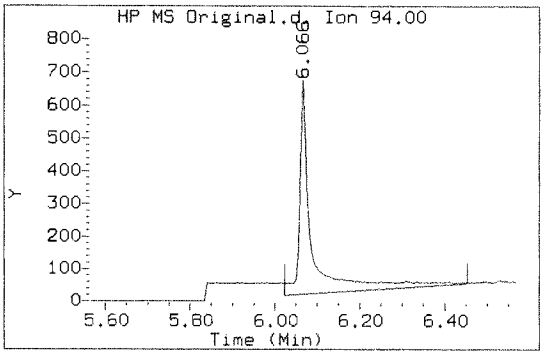
BEFORE
MASS
188
AREA
13965
HEIGHT
9748
18-Apr-2024
13:10
ALSHS
Server



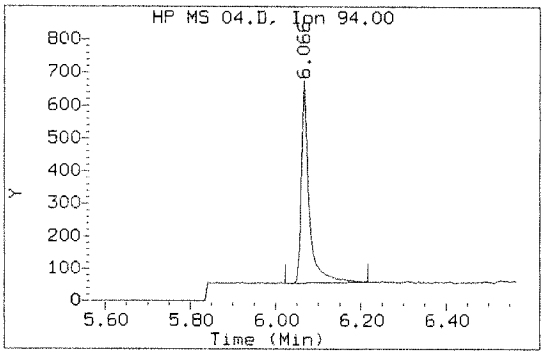
AFTER
MASS
188
AREA
12867
HEIGHT
9702
28-May-2024
13:05



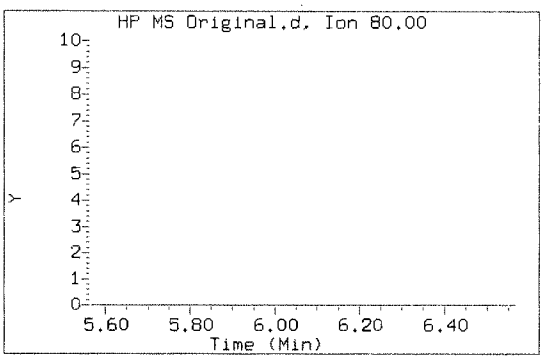
BEFORE
MASS
94
AREA
1364
HEIGHT
654
18-Apr-2024
13:10
ALSHS
Server



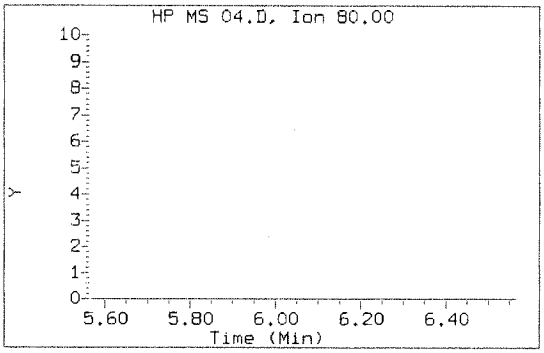
AFTER
MASS
94
AREA
793
HEIGHT
619
28-May-2024
13:05



BEFORE
MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
13:10
ALSHS
Server



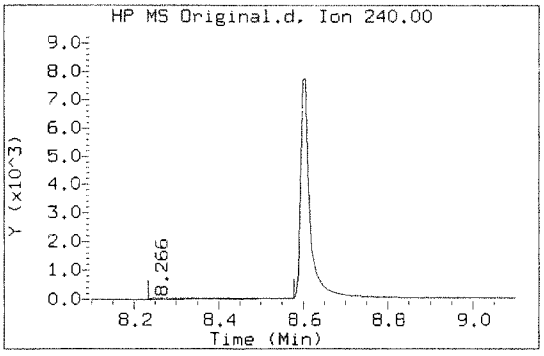
AFTER
MASS
80
AREA
0
HEIGHT
0
28-May-2024
13:05



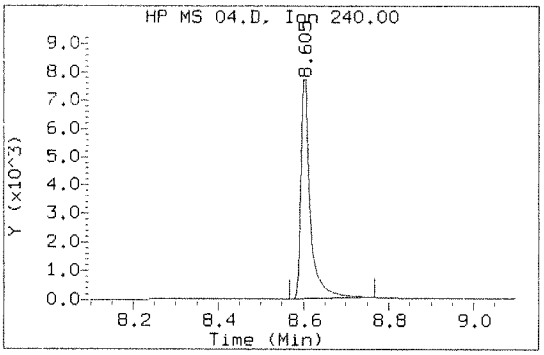
Chrysene-d12 (1719-03-5)

Reason Code:

BEFORE
MASS
240
AREA
456
HEIGHT
48
18-Apr-2024
13:10
ALSHS
Server



AFTER
MASS
240
AREA
11333
HEIGHT
7679
28-May-2024
13:05

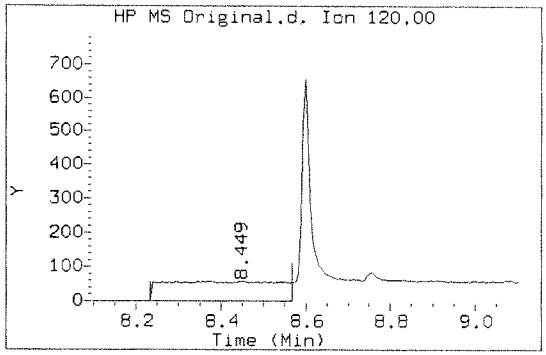


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Inj Date : 18-APR-2024 12:49
InstruID : SV6.i
LabSampID : 14DX-0.01

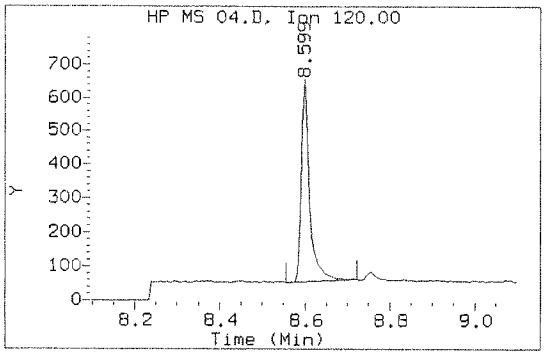
Chrysene-d12 (1719-03-5)

Reason Code:

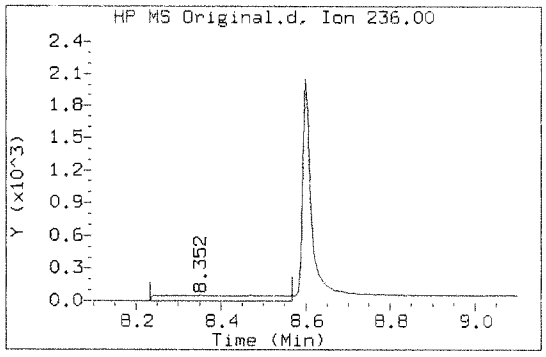
BEFORE
MASS
120
AREA
1092
HEIGHT
57
18-Apr-2024
13:10
ALSHS
Server



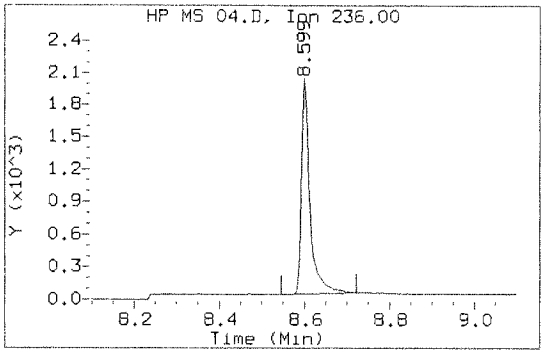
AFTER
MASS
120
AREA
786
HEIGHT
599
28-May-2024
13:05



BEFORE
MASS
236
AREA
988
HEIGHT
51
18-Apr-2024
13:10
ALSHS
Server



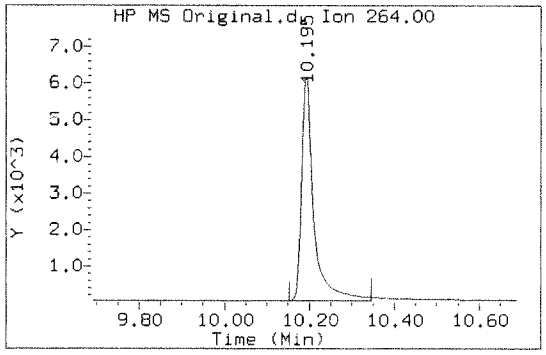
AFTER
MASS
236
AREA
2680
HEIGHT
1995
28-May-2024
13:05



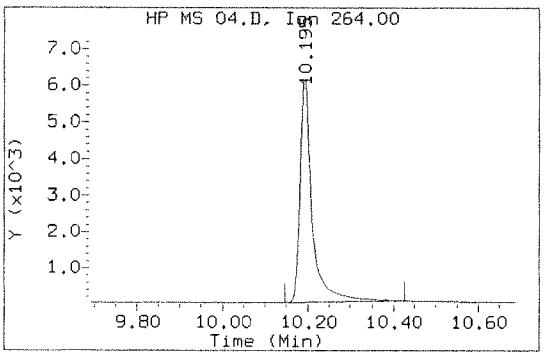
Perylene-d12 (1520-96-3)

Reason Code:

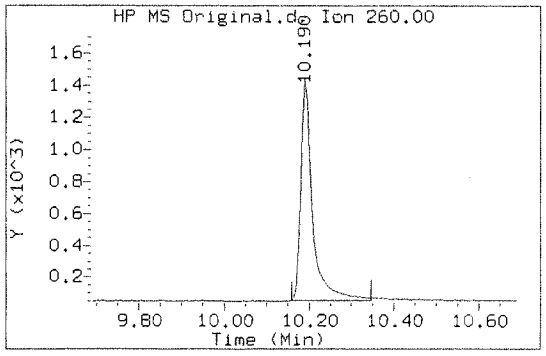
BEFORE
MASS
264
AREA
12161
HEIGHT
6073
18-Apr-2024
13:10
ALSHS
Server



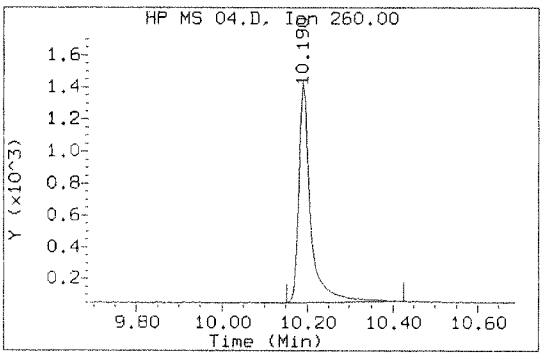
AFTER
MASS
264
AREA
12071
HEIGHT
6065
28-May-2024
13:05



BEFORE
MASS
260
AREA
2633
HEIGHT
1385
18-Apr-2024
13:10
ALSHS
Server



AFTER
MASS
260
AREA
2644
HEIGHT
1385
28-May-2024
13:05



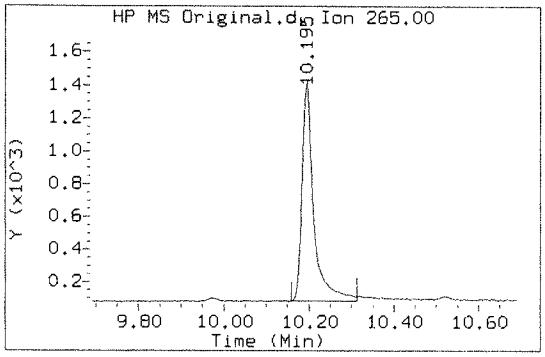
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Inj Date : 18-APR-2024 12:49
InstruID : SV6.i
LabSampID : 14DX-0.01

Perylene-d12 (1520-96-3)

Reason Code:

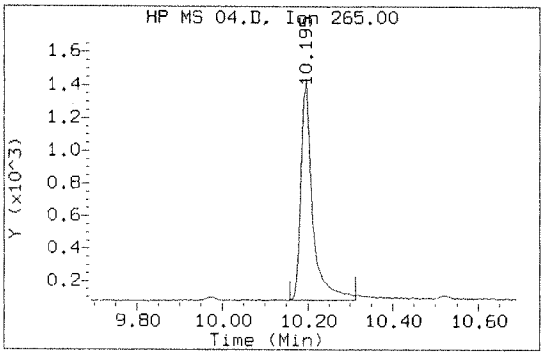
BEFORE

MASS
265
AREA
2550
HEIGHT
1343
18-Apr-2024
13:10
ALSHS
Server



AFTER

MASS
265
AREA
2550
HEIGHT
1343
28-May-2024
13:05

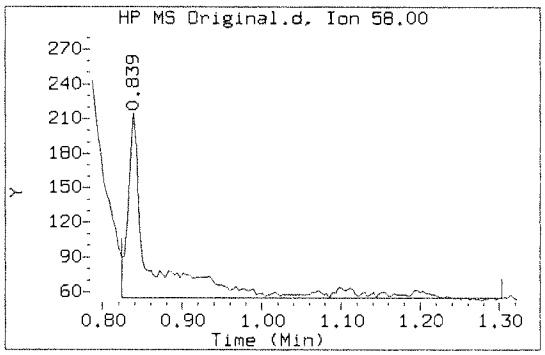


1,4-Dioxane ()

Reason Code:

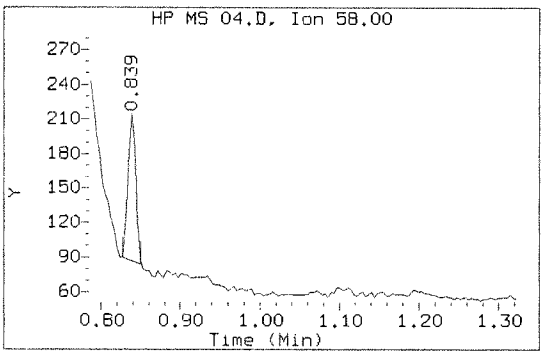
BEFORE

MASS
58
AREA
329
HEIGHT
160
18-Apr-2024
13:10
ALSHS
Server



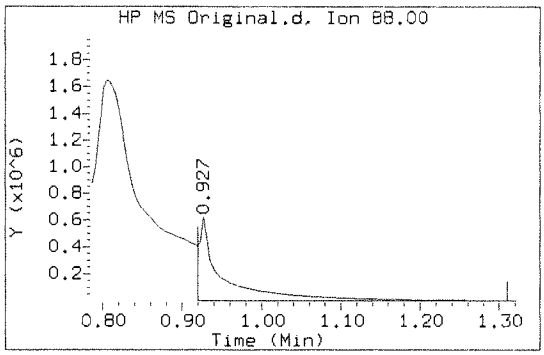
AFTER

MASS
58
AREA
87
HEIGHT
128
28-May-2024
13:05



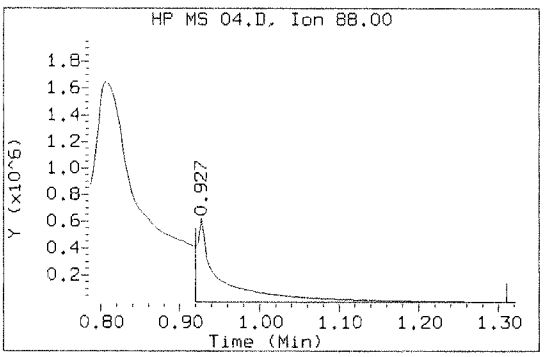
BEFORE

MASS
88
AREA
1289287
HEIGHT
619255
18-Apr-2024
13:10
ALSHS
Server



AFTER

MASS
88
AREA
1289287
HEIGHT
619255
28-May-2024
13:05

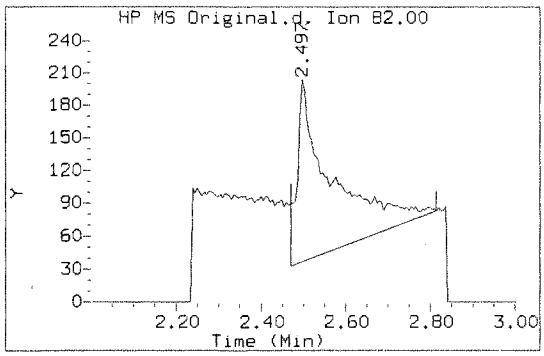


Nitrobenzene-d5 (4165-60-0)

Reason Code:

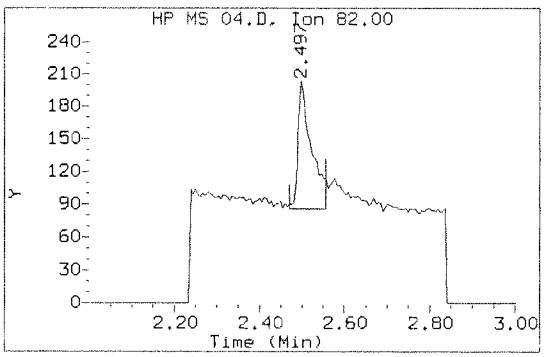
BEFORE

MASS
82
AREA
946
HEIGHT
167
18-Apr-2024
13:10
ALSHS
Server



AFTER

MASS
82
AREA
262
HEIGHT
118
28-May-2024
13:05

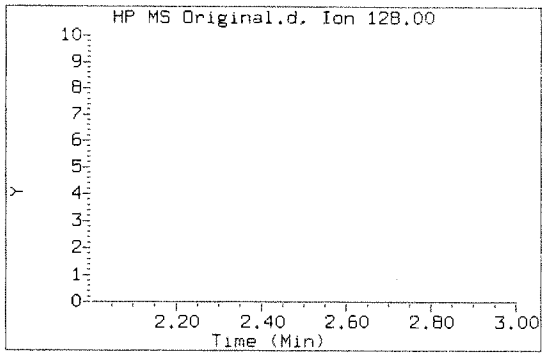


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Inj Date : 18-APR-2024 12:49
InstruID : SV6.i
LabSampID : 14DX-0.01

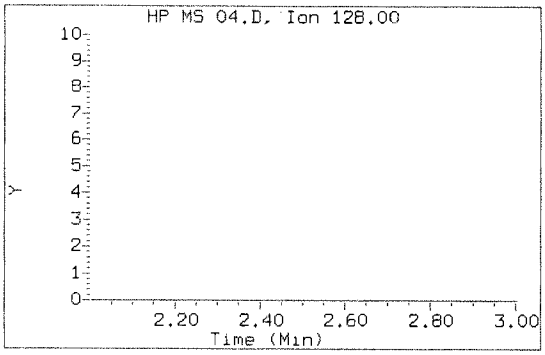
Nitrobenzene-d5 (4165-60-0)

Reason Code:

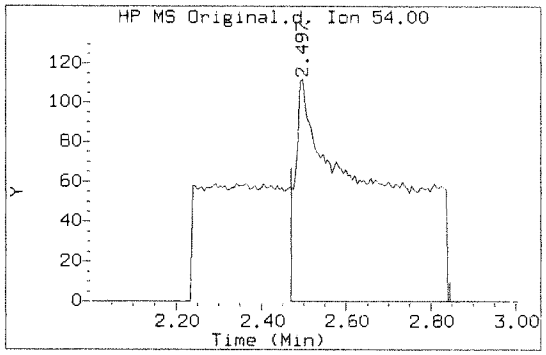
BEFORE
MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
13:10
ALSHS
Server



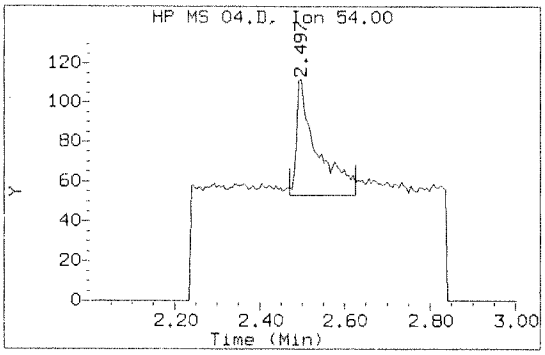
AFTER
MASS
128
AREA
0
HEIGHT
0
28-May-2024
13:05



BEFORE
MASS
54
AREA
1431
HEIGHT
112
18-Apr-2024
13:10
ALSHS
Server



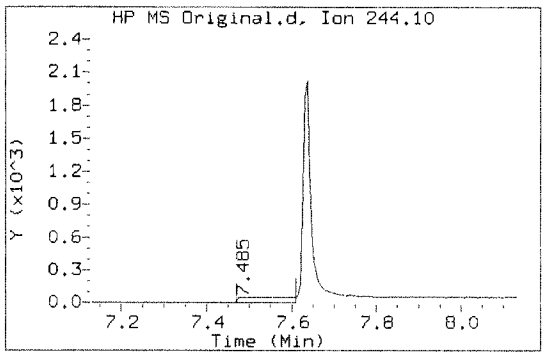
AFTER
MASS
54
AREA
197
HEIGHT
59
28-May-2024
13:05



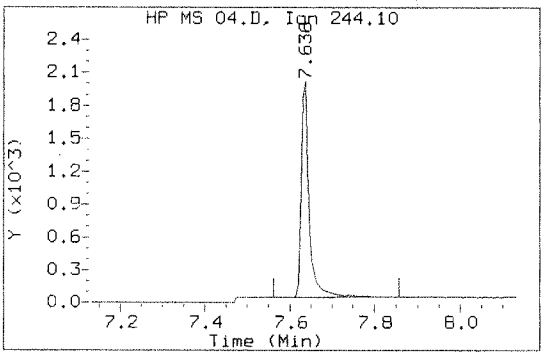
4-Terphenyl-d14 (1718-51-0)

Reason Code:

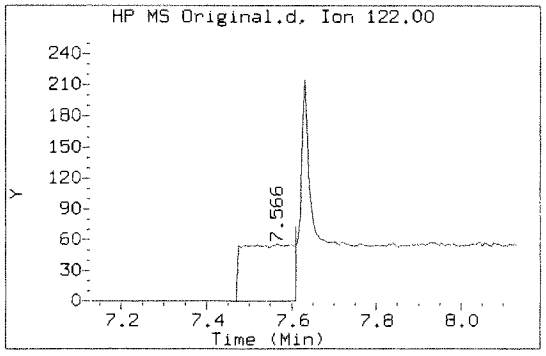
BEFORE
MASS
244.1
AREA
404
HEIGHT
49
18-Apr-2024
13:10
ALSHS
Server



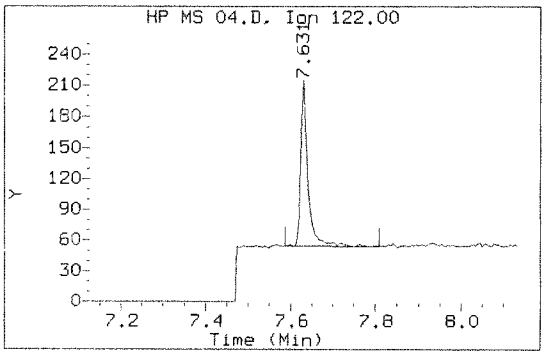
AFTER
MASS
244.1
AREA
2521
HEIGHT
1975
28-May-2024
13:05



BEFORE
MASS
122
AREA
456
HEIGHT
56
18-Apr-2024
13:10
ALSHS
Server



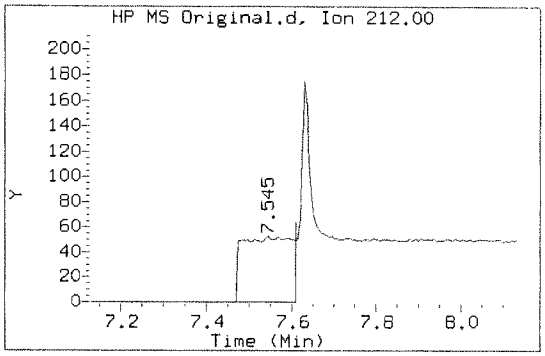
AFTER
MASS
122
AREA
187
HEIGHT
160
28-May-2024
13:05



Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Inj Date : 18-APR-2024 12:49
InstruID : SV6.i
LabSampID : 14DX-0.01

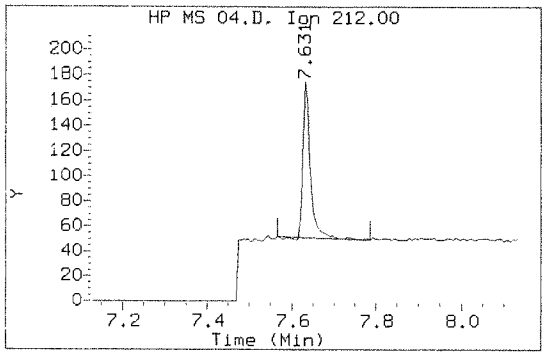
4-Terphenyl-d14 (1718-51-0)

BEFORE
MASS
212
AREA
418
HEIGHT
53
18-Apr-2024
13:10
ALSHS
Server



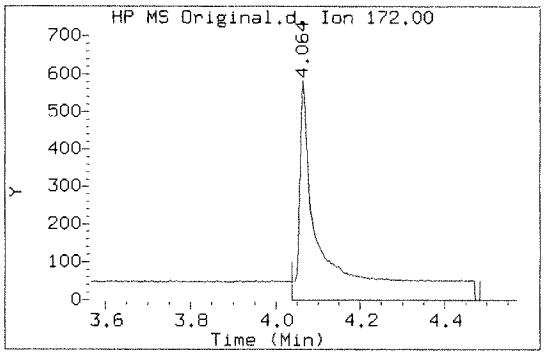
Reason Code:

AFTER
MASS
212
AREA
146
HEIGHT
123
28-May-2024
13:05



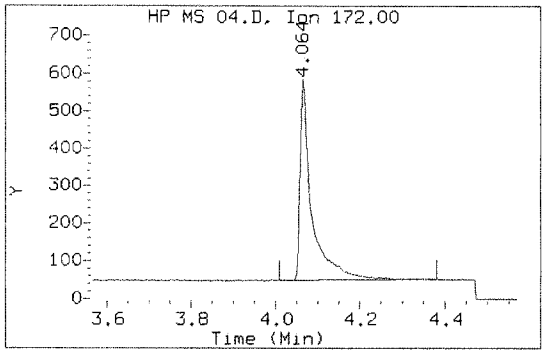
2-Fluorobiphenyl (321-60-8)

BEFORE
MASS
172
AREA
2355
HEIGHT
584
18-Apr-2024
13:10
ALSHS
Server

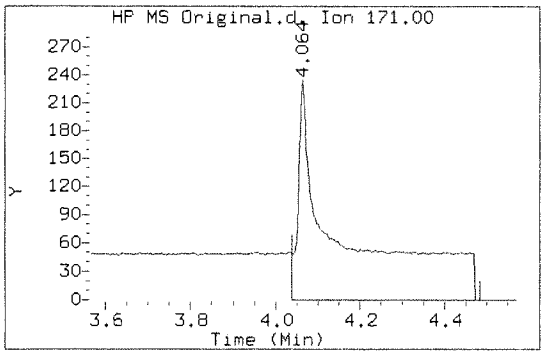


Reason Code:

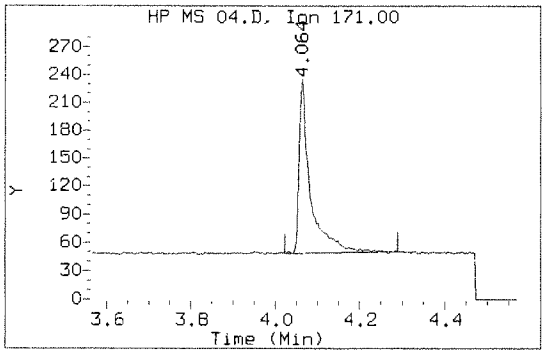
AFTER
MASS
172
AREA
1018
HEIGHT
534
28-May-2024
13:05



BEFORE
MASS
171
AREA
1637
HEIGHT
235
18-Apr-2024
13:10
ALSHS
Server



AFTER
MASS
171
AREA
346
HEIGHT
186
28-May-2024
13:05



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D Page 1
Report Date: 17-Jul-2024 16:41

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Lab Smp Id: 14DX-0.03
Inj Date : 18-APR-2024 13:07
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.03
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 13:07 Cal File: 05.D
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)	
* 20 1,4-Dichlorobenzene-d4	152	2.088	2.089	(1.000)	2278	0.10000		(aM)
* 45 Naphthalene-d8	136	3.076	3.076	(1.000)	6857	0.10000		(M)
$ 33 Nitrobenzene-d5	82	2.496	2.502	(0.812)	570	0.03000	0.02769	(M)
* 86 Acenaphthene-d10	164	4.665	4.671	(1.000)	3891	0.10000		(M)
$ 69 2-Fluorobiphenyl	172	4.063	4.067	(0.871)	1731	0.03000	0.02910	(M)
* 126 Phenanthrene-d10	188	6.065	6.065	(1.000)	7578	0.10000		(M)
* 182 Chrysene-d12	240	8.598	8.599	(1.000)	6445	0.10000		(M)
$ 158 4-Terphenyl-d14	244	7.630	7.630	(0.887)	3857	0.03000	0.02938	(M)
* 198 Perylene-d12	264	10.189	10.189	(1.000)	6635	0.10000		
1 1,4-Dioxane	58	0.827	0.820	(0.396)	138	0.03000	0.02828	(QM)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D

Date : 18-APR-2024 13:07

Client ID:

Instrument: SV6.i

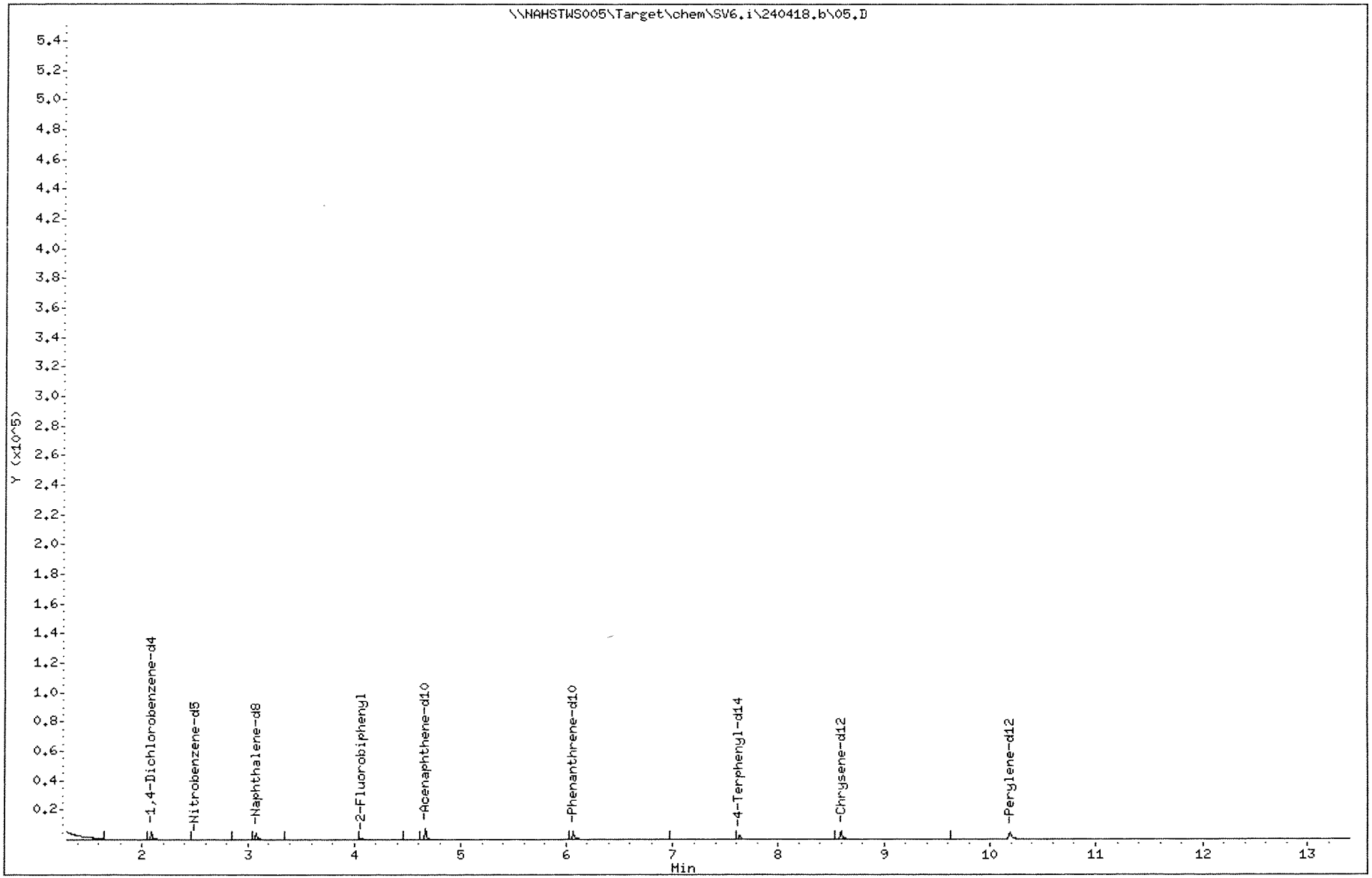
Sample Info: 14DX-0.03

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

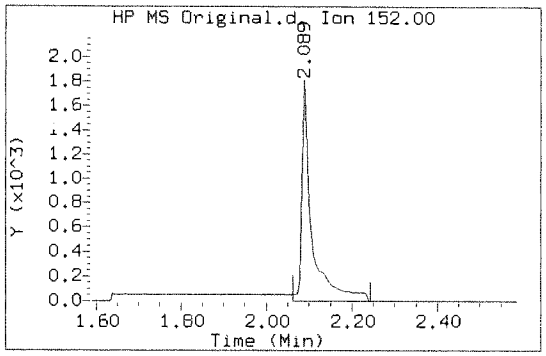


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Inj Date : 18-APR-2024 13:07
InstruID : SV6.i
LabSampID : 14DX-0.03

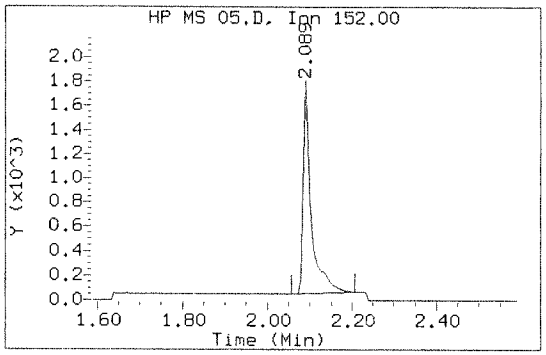
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

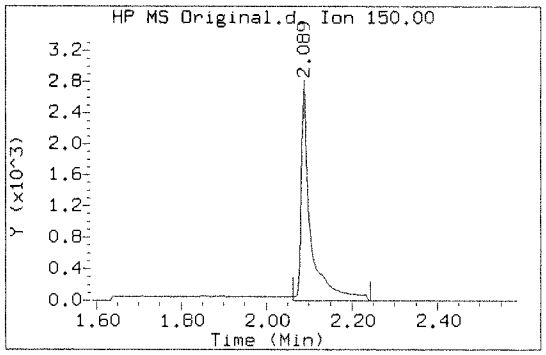
BEFORE
MASS 152
AREA 2919
HEIGHT 1810
18-Apr-2024 13:21
ALSHS Server



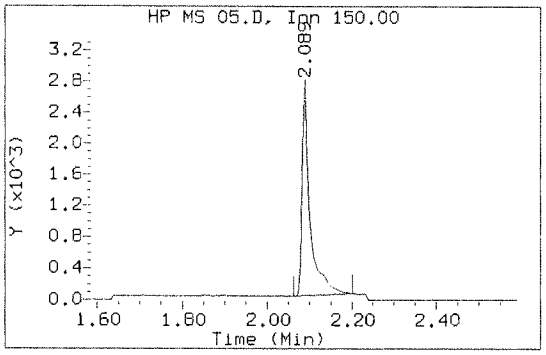
AFTER
MASS 152
AREA 2278
HEIGHT 1755
28-May-2024 13:05



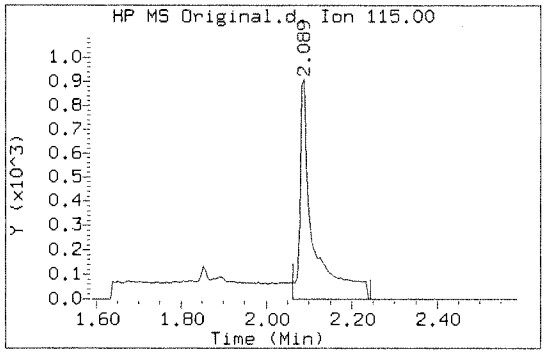
BEFORE
MASS 150
AREA 4252
HEIGHT 2826
18-Apr-2024 13:21
ALSHS Server



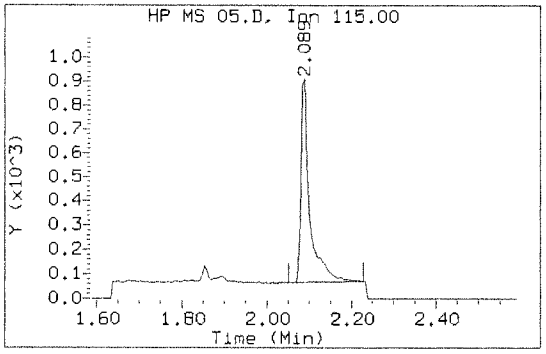
AFTER
MASS 150
AREA 3521
HEIGHT 2768
28-May-2024 13:05



BEFORE
MASS 115
AREA 1932
HEIGHT 913
18-Apr-2024 13:21
ALSHS Server



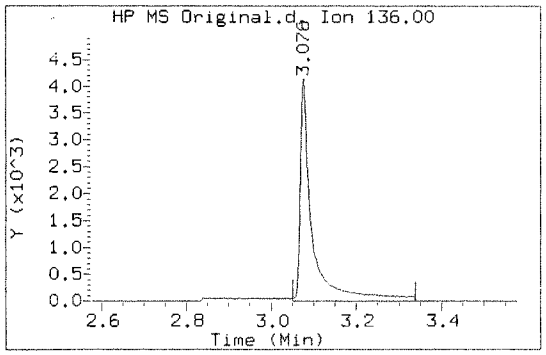
AFTER
MASS 115
AREA 1207
HEIGHT 846
28-May-2024 13:05



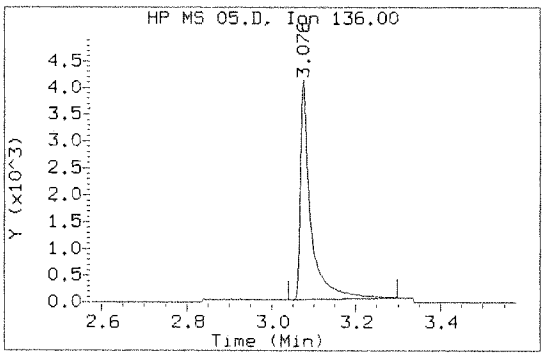
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS 136
AREA 8079
HEIGHT 4148
18-Apr-2024 13:21
ALSHS Server



AFTER
MASS 136
AREA 6857
HEIGHT 4091
28-May-2024 13:05

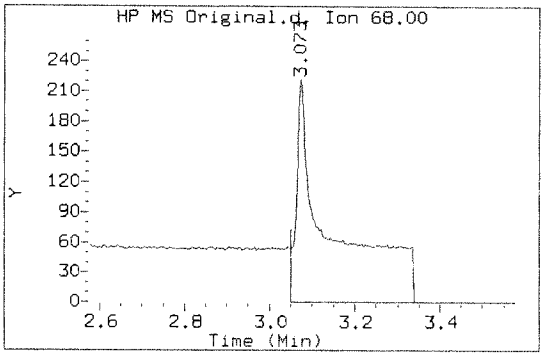


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Inj Date : 18-APR-2024 13:07
InstruID : SV6.i
LabSampID : 14DX-0.03

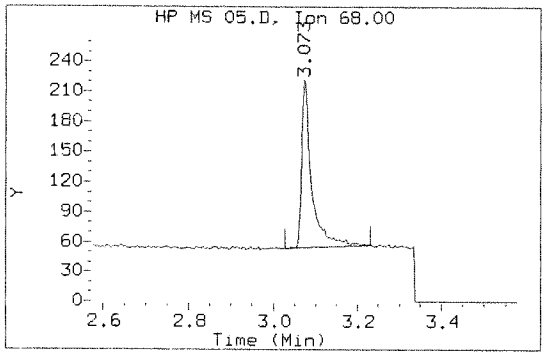
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
68
AREA
1234
HEIGHT
222
18-Apr-2024
13:21
ALSHS
Server



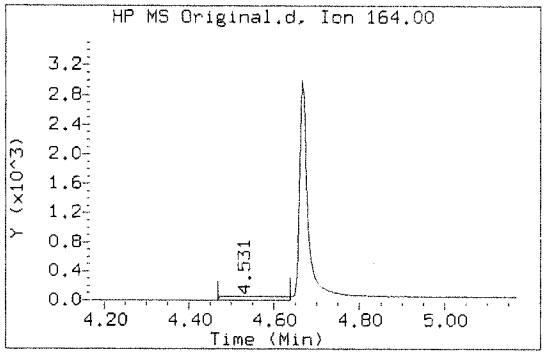
AFTER
MASS
68
AREA
270
HEIGHT
167
28-May-2024
13:05



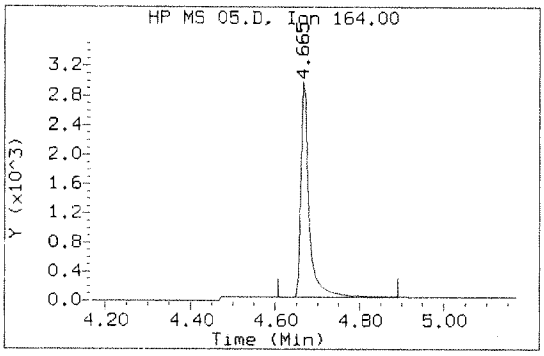
Acenaphthene-d10 (15067-26-2)

Reason Code:

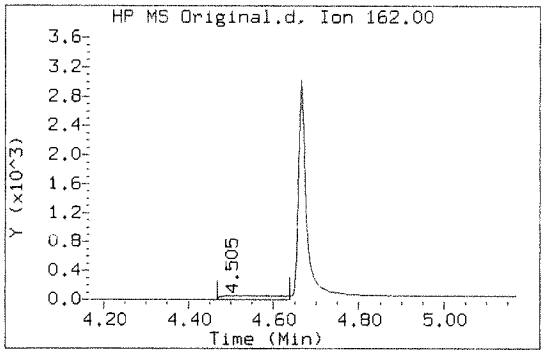
BEFORE
MASS
164
AREA
504
HEIGHT
51
18-Apr-2024
13:21
ALSHS
Server



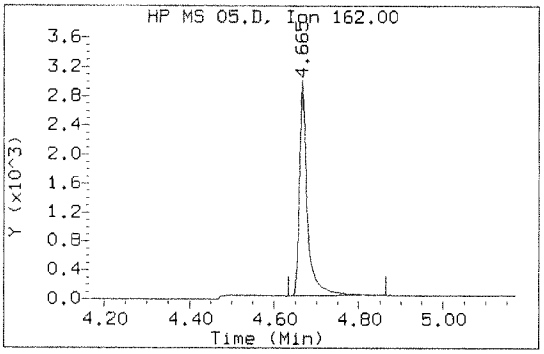
AFTER
MASS
164
AREA
3891
HEIGHT
2944
28-May-2024
13:05



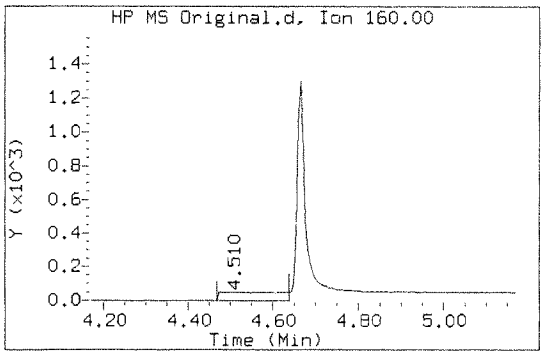
BEFORE
MASS
162
AREA
505
HEIGHT
54
18-Apr-2024
13:21
ALSHS
Server



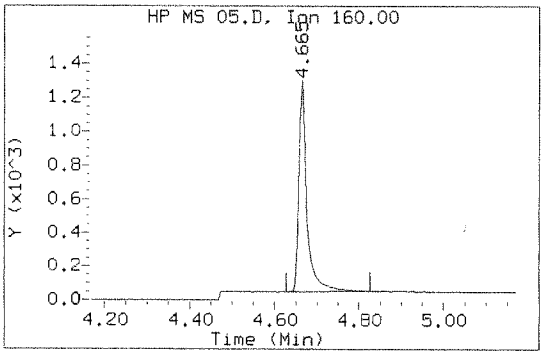
AFTER
MASS
162
AREA
3749
HEIGHT
2972
28-May-2024
13:05



BEFORE
MASS
160
AREA
490
HEIGHT
49
18-Apr-2024
13:21
ALSHS
Server



AFTER
MASS
160
AREA
1625
HEIGHT
1253
28-May-2024
13:05

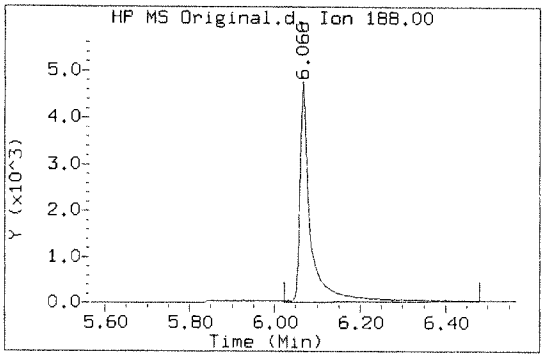


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Inj Date : 18-APR-2024 13:07
InstruID : SV6.i
LabSampID : 14DX-0.03

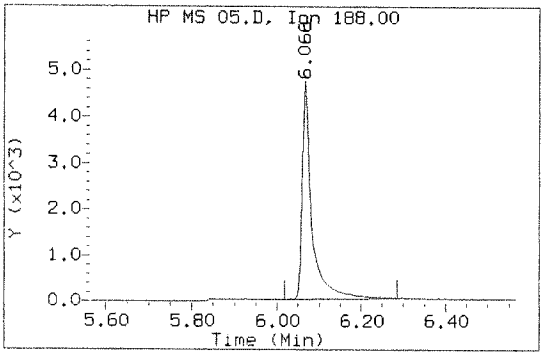
Phenanthrene-d10 (1517-22-2)

Reason Code:

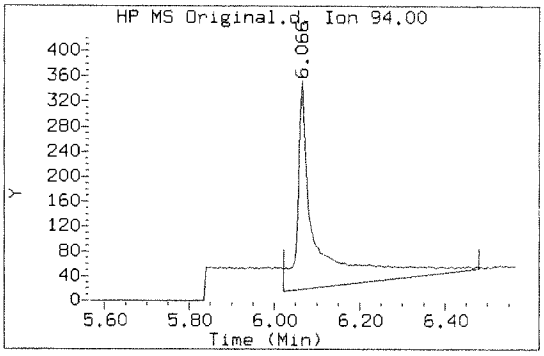
BEFORE
MASS
188
AREA
8422
HEIGHT
4756
18-Apr-2024
13:21
ALSHS
Server



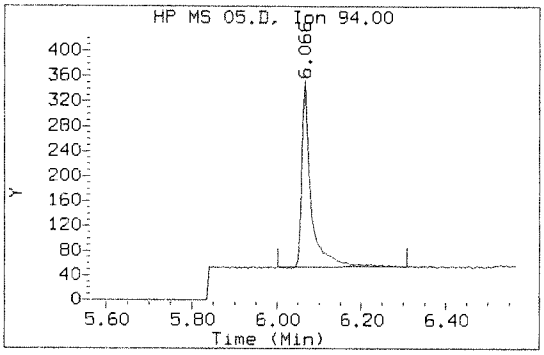
AFTER
MASS
188
AREA
7578
HEIGHT
4722
28-May-2024
13:05



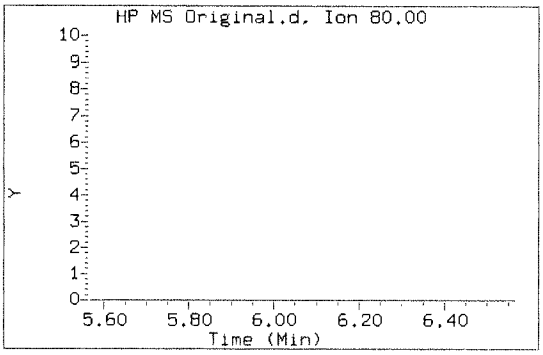
BEFORE
MASS
94
AREA
1045
HEIGHT
334
18-Apr-2024
13:21
ALSHS
Server



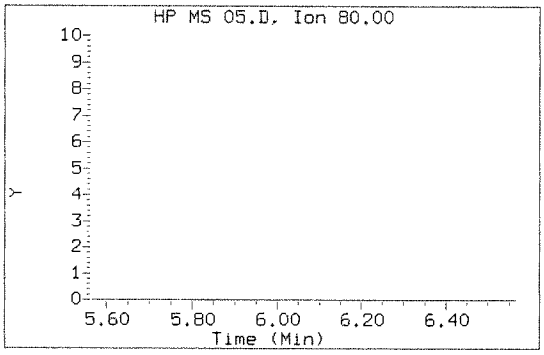
AFTER
MASS
94
AREA
460
HEIGHT
298
28-May-2024
13:05



BEFORE
MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
13:21
ALSHS
Server



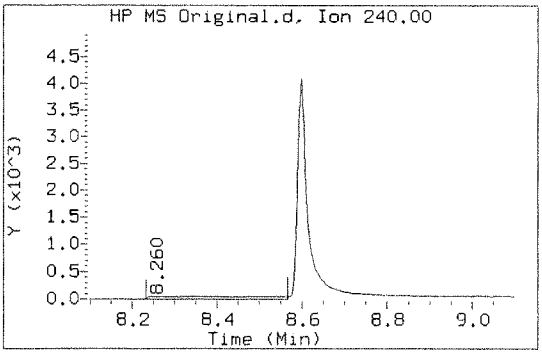
AFTER
MASS
80
AREA
0
HEIGHT
0
28-May-2024
13:05



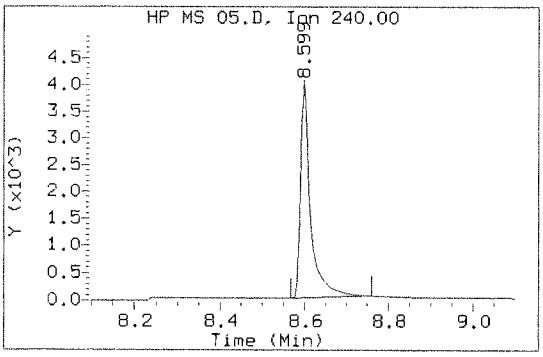
Chrysene-d12 (1719-03-5)

Reason Code:

BEFORE
MASS
240
AREA
966
HEIGHT
50
18-Apr-2024
13:21
ALSHS
Server



AFTER
MASS
240
AREA
6445
HEIGHT
4036
28-May-2024
13:05

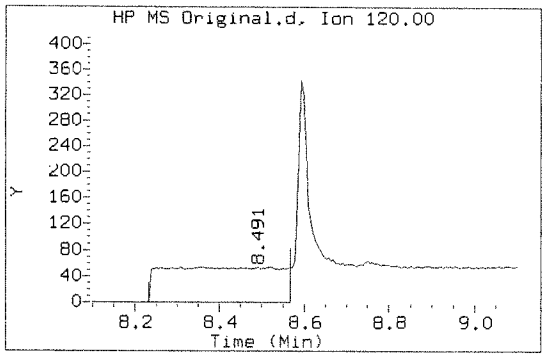


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Inj Date : 18-APR-2024 13:07
InstruID : SV6.i
LabSampID : 14DX-0.03

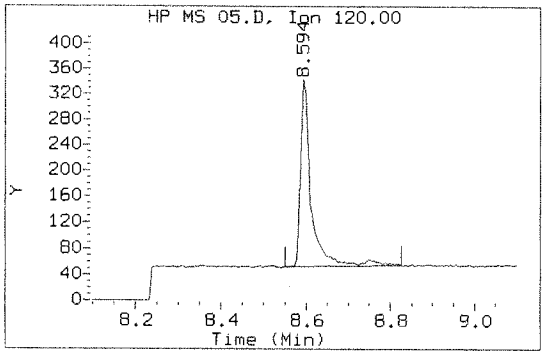
Chrysene-d12 (1719-03-5)

Reason Code:

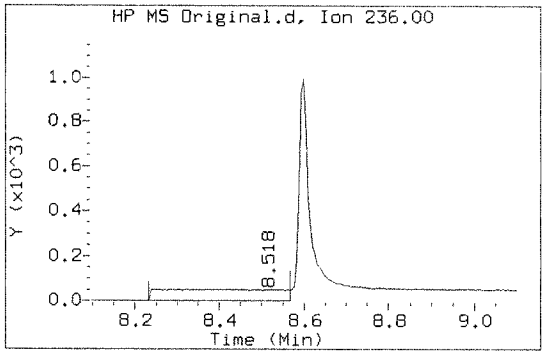
BEFORE
MASS
120
AREA
1053
HEIGHT
55
18-Apr-2024
13:21
ALSHS
Server



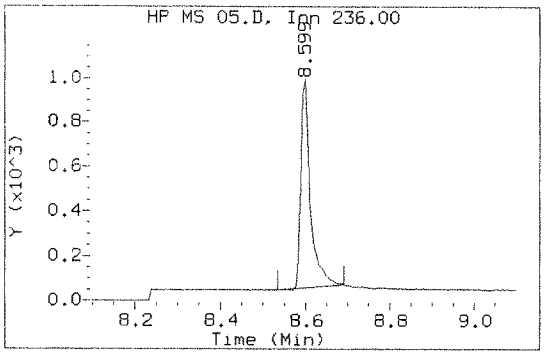
AFTER
MASS
120
AREA
500
HEIGHT
290
28-May-2024
13:05



BEFORE
MASS
236
AREA
963
HEIGHT
50
18-Apr-2024
13:21
ALSHS
Server



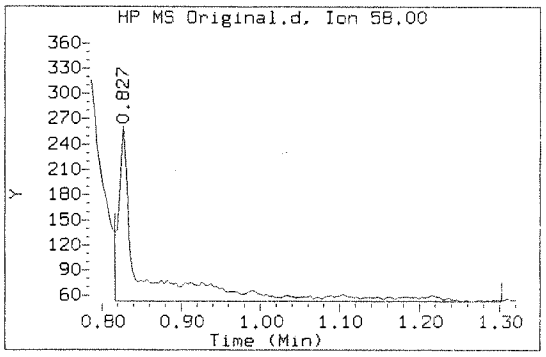
AFTER
MASS
236
AREA
1446
HEIGHT
938
28-May-2024
13:05



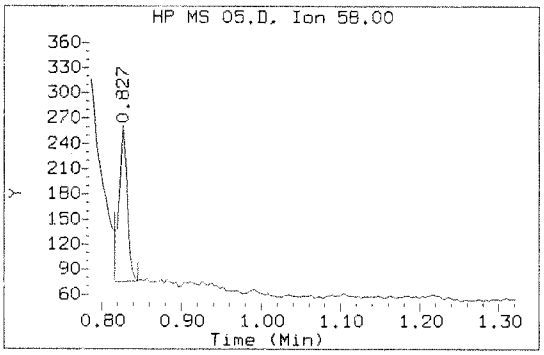
1,4-Dioxane ()

Reason Code:

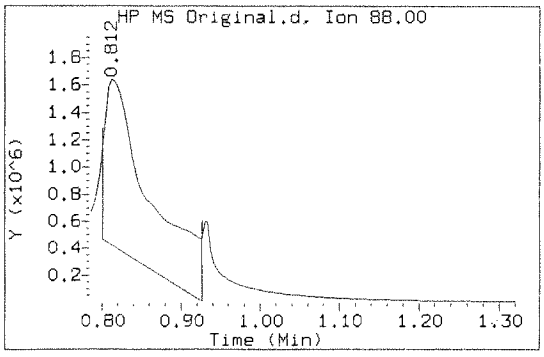
BEFORE
MASS
58
AREA
414
HEIGHT
208
18-Apr-2024
13:21
ALSHS
Server



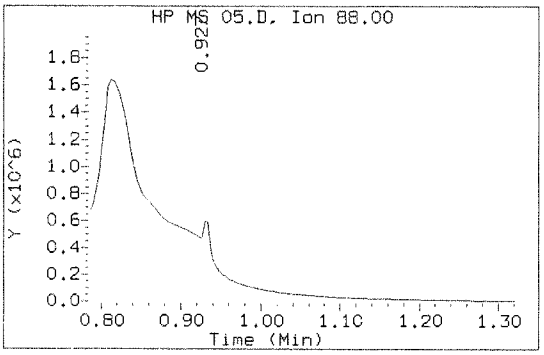
AFTER
MASS
58
AREA
138
HEIGHT
185
28-May-2024
13:05



BEFORE
MASS
88
AREA
4998904
HEIGHT
1209480
18-Apr-2024
13:21
ALSHS
Server



AFTER
MASS
88
AREA
0
HEIGHT
0
28-May-2024
13:05

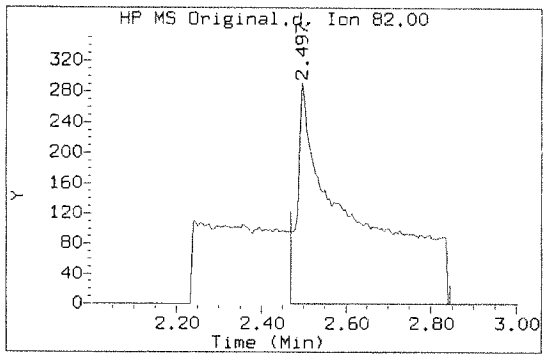


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Inj Date : 18-APR-2024 13:07
InstruID : SV6.i
LabSampID : 14DX-0.03

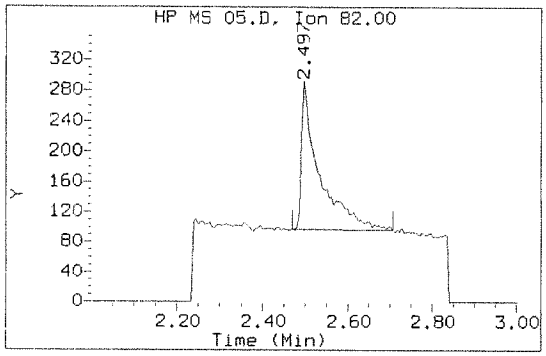
Nitrobenzene-d5 (4165-60-0)

Reason Code:

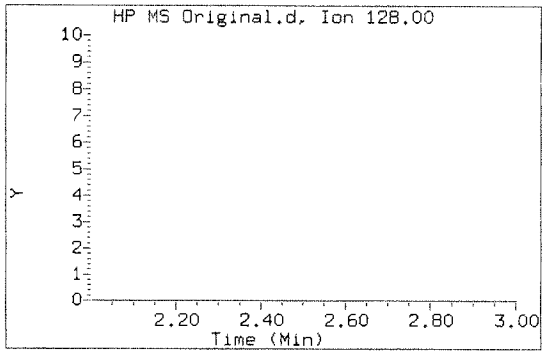
BEFORE
MASS
82
AREA
2662
HEIGHT
292
18-Apr-2024
13:21
ALSHS
Server



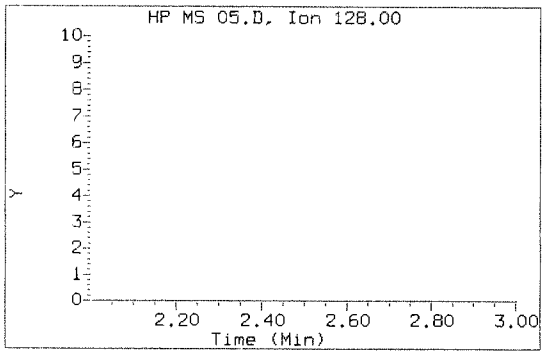
AFTER
MASS
82
AREA
570
HEIGHT
195
28-May-2024
13:05



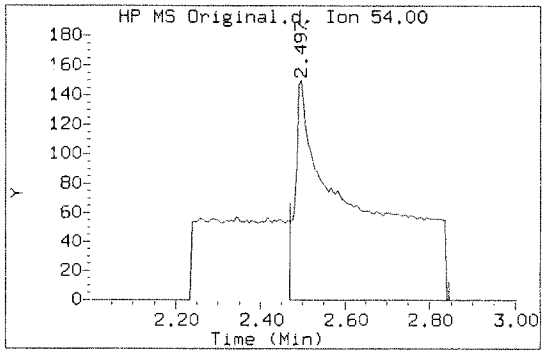
BEFORE
MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
13:21
ALSHS
Server



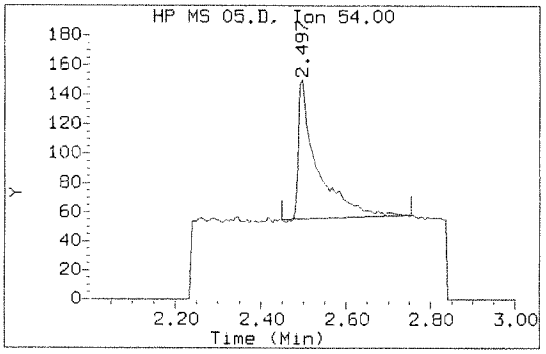
AFTER
MASS
128
AREA
0
HEIGHT
0
28-May-2024
13:05



BEFORE
MASS
54
AREA
1538
HEIGHT
150
18-Apr-2024
13:21
ALSHS
Server



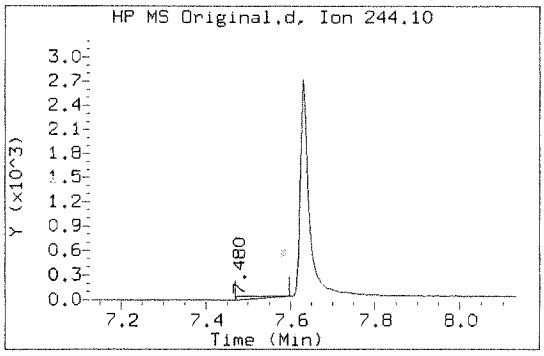
AFTER
MASS
54
AREA
289
HEIGHT
94
28-May-2024
13:05



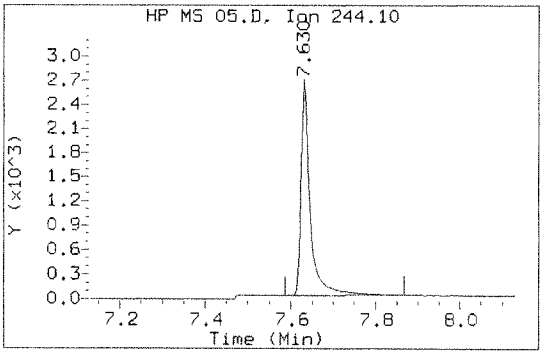
4-Terphenyl-d14 (1718-51-0)

Reason Code:

BEFORE
MASS
244.1
AREA
174
HEIGHT
44
18-Apr-2024
13:21
ALSHS
Server



AFTER
MASS
244.1
AREA
3857
HEIGHT
2674
28-May-2024
13:05

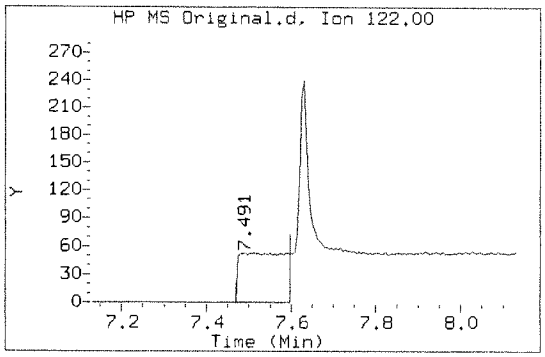


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Inj Date : 18-APR-2024 13:07
InstruID : SV6.i
LabSampID : 14DX-0.03

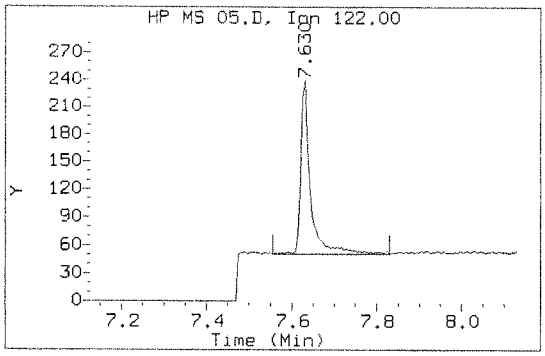
4-Terphenyl-d14 (1718-51-0)

Reason Code:

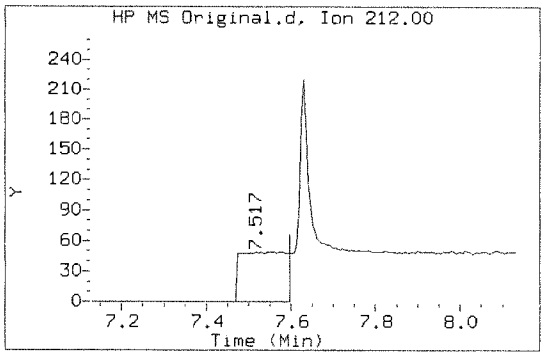
BEFORE
MASS
122
AREA
401
HEIGHT
53
18-Apr-2024
13:21
ALSHS
Server



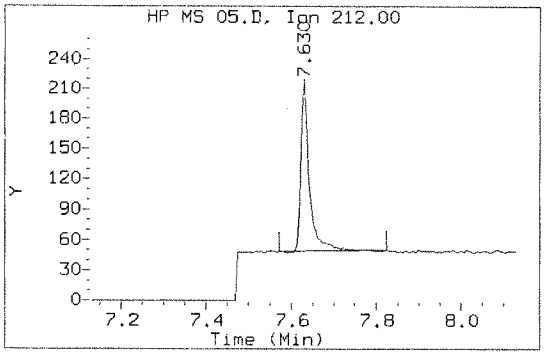
AFTER
MASS
122
AREA
296
HEIGHT
189
28-May-2024
13:05



BEFORE
MASS
212
AREA
374
HEIGHT
49
18-Apr-2024
13:21
ALSHS
Server



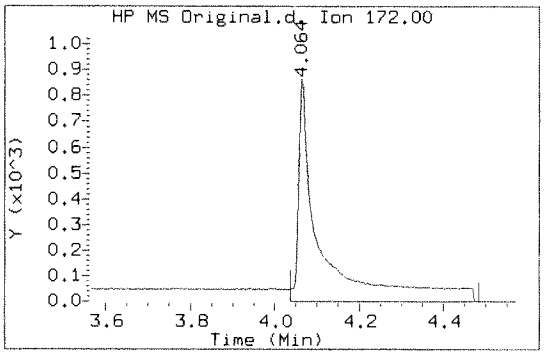
AFTER
MASS
212
AREA
227
HEIGHT
170
28-May-2024
13:05



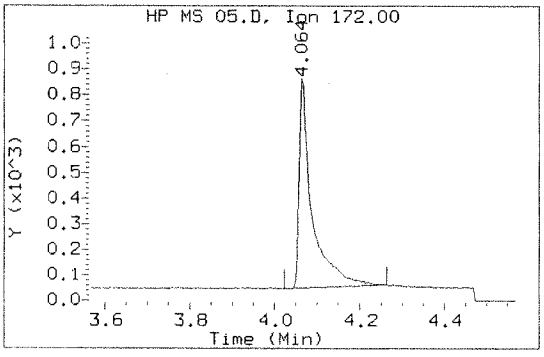
2-Fluorobiphenyl (321-60-8)

Reason Code:

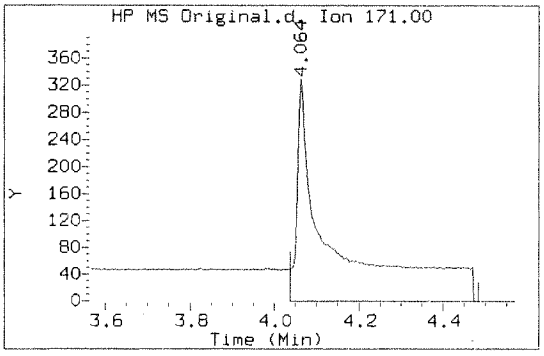
BEFORE
MASS
172
AREA
3193
HEIGHT
863
18-Apr-2024
13:21
ALSHS
Server



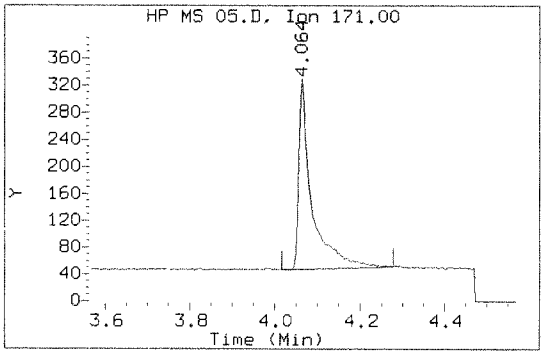
AFTER
MASS
172
AREA
1731
HEIGHT
812
28-May-2024
13:05



BEFORE
MASS
171
AREA
1906
HEIGHT
329
18-Apr-2024
13:21
ALSHS
Server



AFTER
MASS
171
AREA
602
HEIGHT
281
28-May-2024
13:05



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D Page 1
Report Date: 17-Jul-2024 16:41

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Lab Smp Id: 14DX-0.05
Inj Date : 18-APR-2024 13:25
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.05
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 13:25 Cal File: 06.D
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)	
* 20 1,4-Dichlorobenzene-d4	152	2.094	2.089	(1.000)	3152	0.10000		(aM)
* 45 Naphthalene-d8	136	3.076	3.076	(1.000)	9502	0.10000		(M)
$ 33 Nitrobenzene-d5	82	2.497	2.502	(0.812)	1589	0.05000	0.05570	(M)
* 86 Acenaphthene-d10	164	4.665	4.671	(1.000)	6015	0.10000		(M)
$ 69 2-Fluorobiphenyl	172	4.064	4.067	(0.871)	4588	0.05000	0.04990	(M)
* 126 Phenanthrene-d10	188	6.065	6.065	(1.000)	11597	0.10000		(M)
* 182 Chrysene-d12	240	8.599	8.599	(1.000)	10029	0.10000		(M)
$ 158 4-Terphenyl-d14	244	7.630	7.630	(0.887)	10047	0.05000	0.04918	(M)
* 198 Perylene-d12	264	10.189	10.189	(1.000)	10408	0.10000		(M)
1 1,4-Dioxane	58	0.849	0.820	(0.406)	339	0.05000	0.05021	(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D

Date : 18-APR-2024 13:25

Client ID:

Instrument: SV6.i

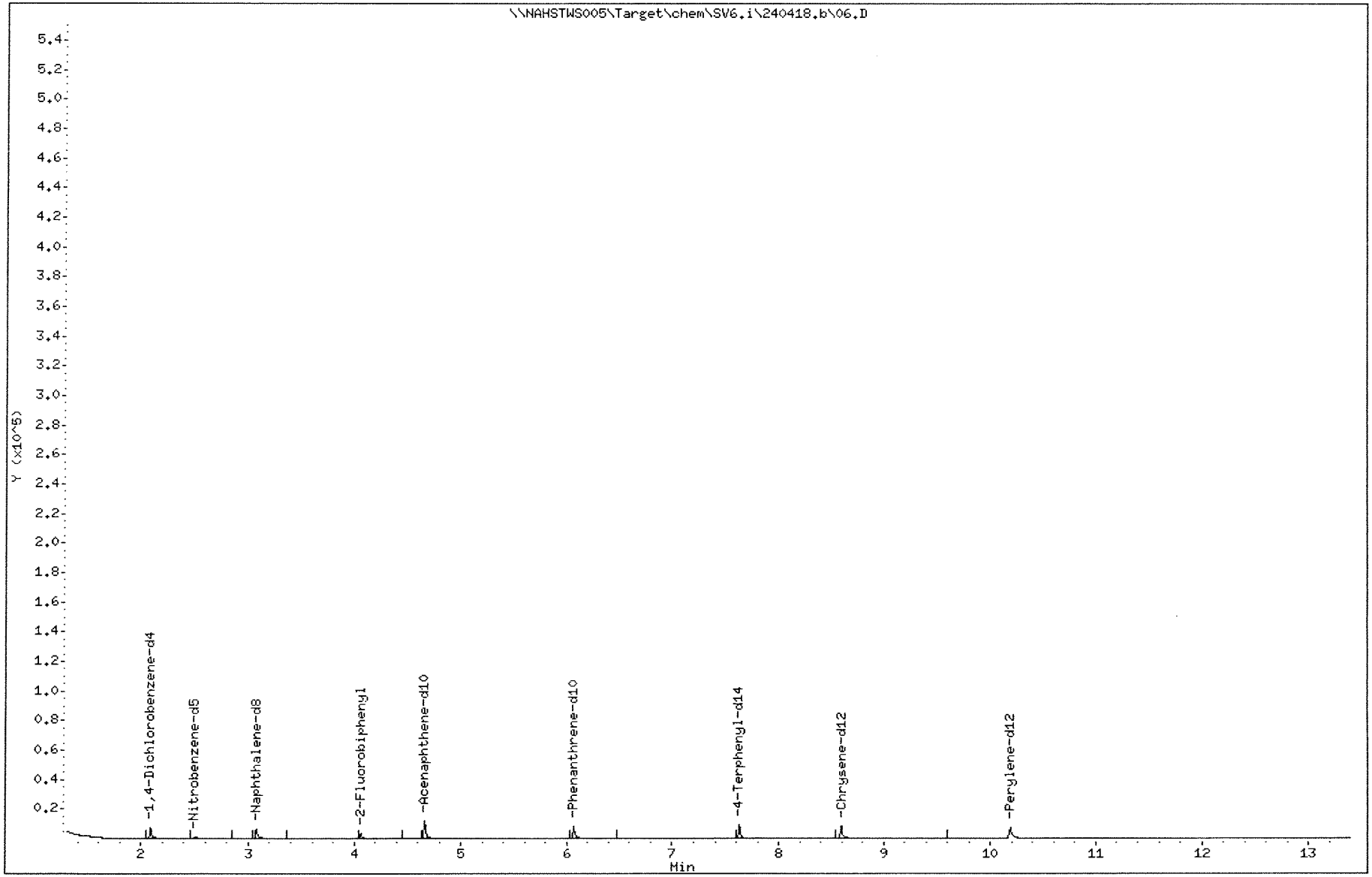
Sample Info: 14DX-0.05

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

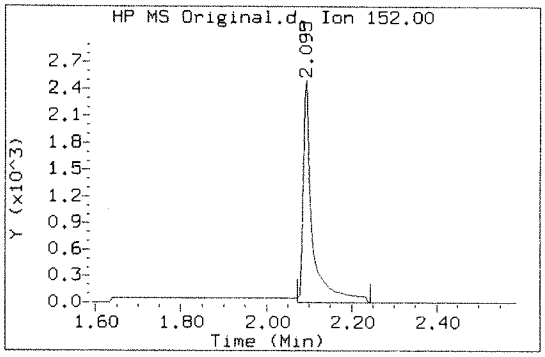


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Inj Date : 18-APR-2024 13:25
InstruID : SV6.i
LabSampID : 14DX-0.05

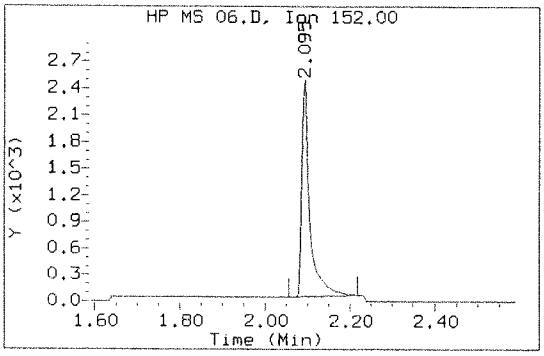
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

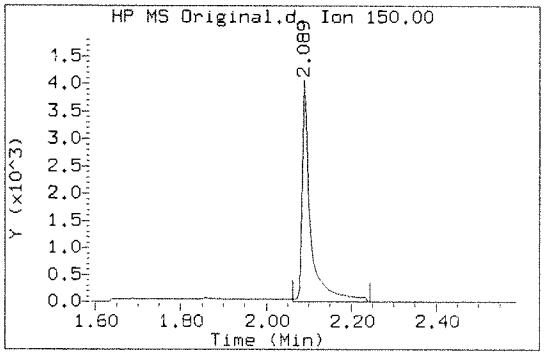
BEFORE
MASS 152
AREA 3790
HEIGHT 2499
18-Apr-2024 13:40
ALSHS Server



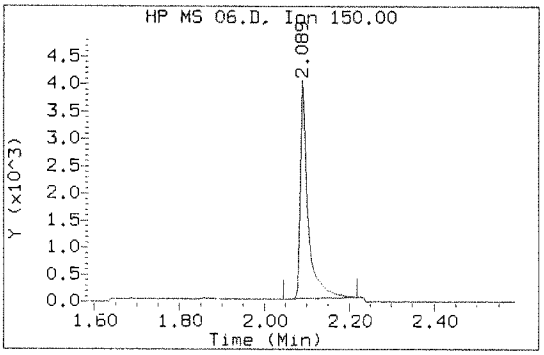
AFTER
MASS 152
AREA 3152
HEIGHT 2443
28-May-2024 13:05



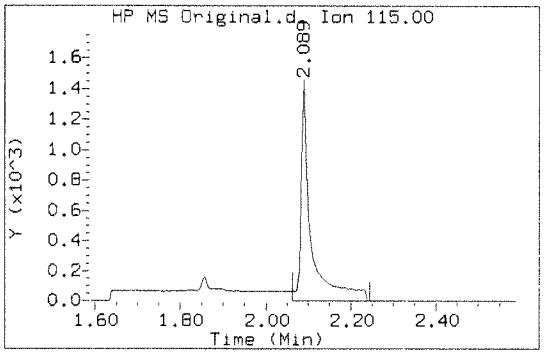
BEFORE
MASS 150
AREA 5683
HEIGHT 4072
18-Apr-2024 13:40
ALSHS Server



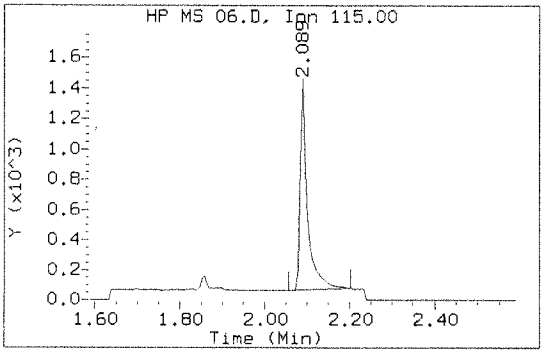
AFTER
MASS 150
AREA 4936
HEIGHT 4013
28-May-2024 13:05



BEFORE
MASS 115
AREA 2390
HEIGHT 1458
18-Apr-2024 13:40
ALSHS Server



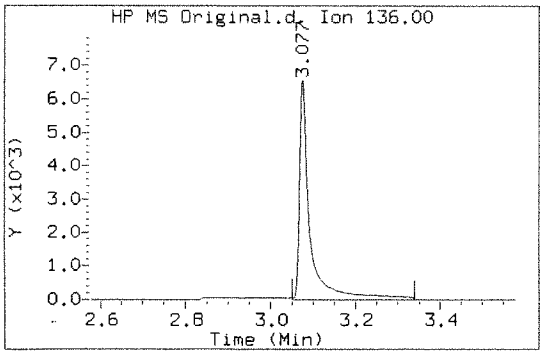
AFTER
MASS 115
AREA 1620
HEIGHT 1390
28-May-2024 13:05



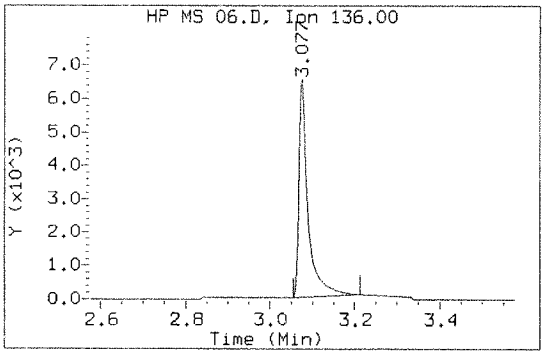
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS 136
AREA 11303
HEIGHT 6569
18-Apr-2024 13:40
ALSHS Server



AFTER
MASS 136
AREA 9502
HEIGHT 6499
28-May-2024 13:05

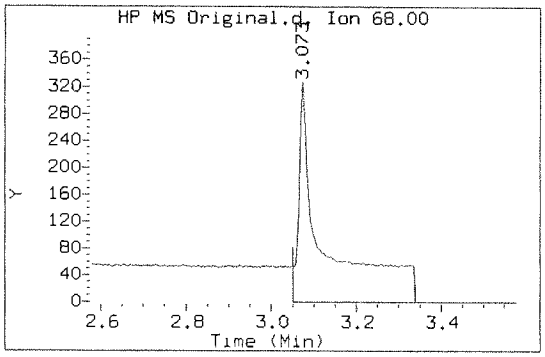


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Inj Date : 18-APR-2024 13:25
InstruID : SV6.i
LabSampID : 14DX-0.05

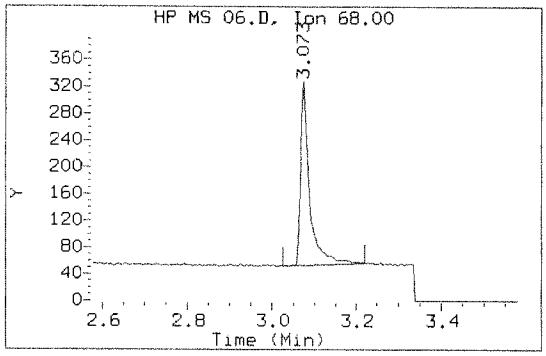
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
68
AREA
1344
HEIGHT
328
18-Apr-2024
13:40
ALSHS
Server



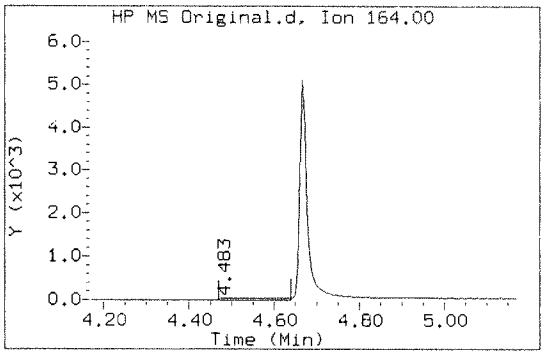
AFTER
MASS
68
AREA
401
HEIGHT
275
28-May-2024
13:05



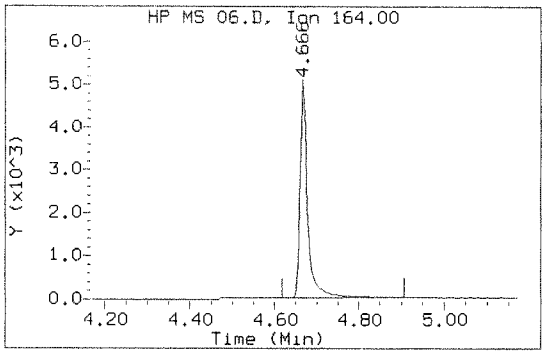
Acenaphthene-d10 (15067-26-2)

Reason Code:

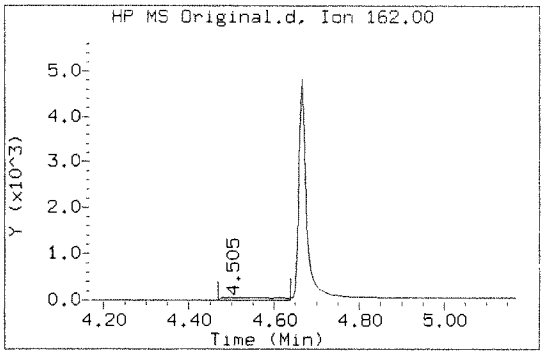
BEFORE
MASS
164
AREA
496
HEIGHT
51
18-Apr-2024
13:40
ALSHS
Server



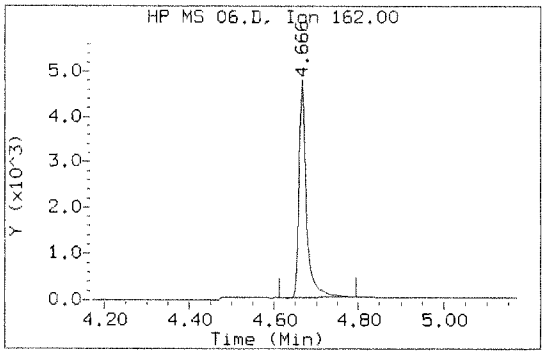
AFTER
MASS
164
AREA
6015
HEIGHT
5068
28-May-2024
13:05



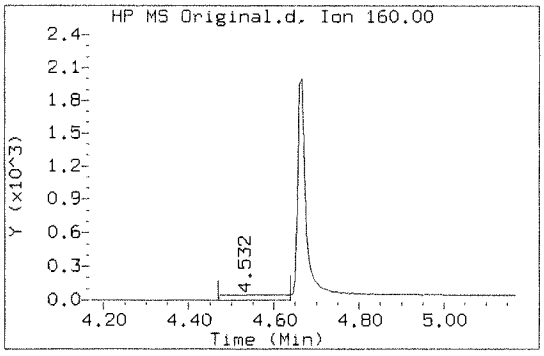
BEFORE
MASS
162
AREA
502
HEIGHT
53
18-Apr-2024
13:40
ALSHS
Server



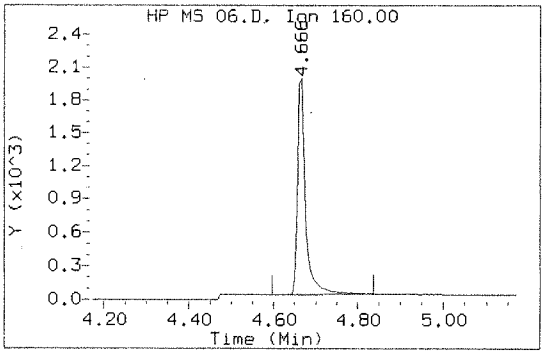
AFTER
MASS
162
AREA
5625
HEIGHT
4775
28-May-2024
13:05



BEFORE
MASS
160
AREA
484
HEIGHT
49
18-Apr-2024
13:40
ALSHS
Server



AFTER
MASS
160
AREA
2508
HEIGHT
1951
28-May-2024
13:05

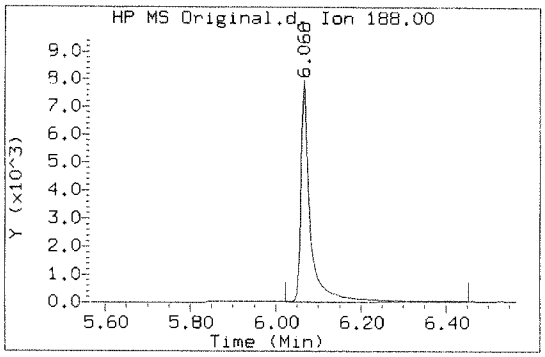


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Inj Date : 18-APR-2024 13:25
InstruID : SV6.i
LabSampID : 14DX-0.05

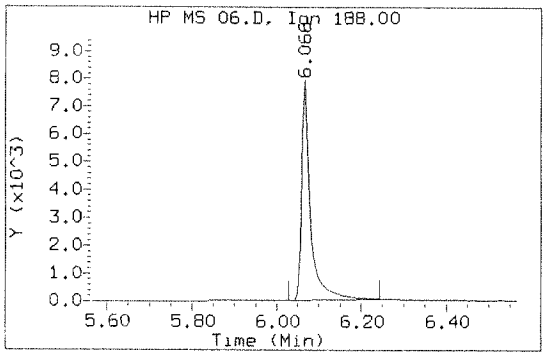
Phenanthrene-d10 (1517-22-2)

Reason Code:

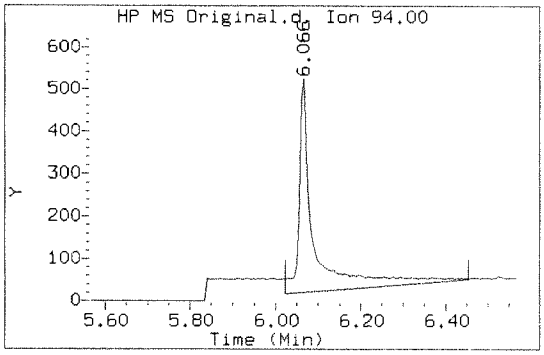
BEFORE
MASS
188
AREA
12630
HEIGHT
7964
18-Apr-2024
13:40
ALSHS
Server



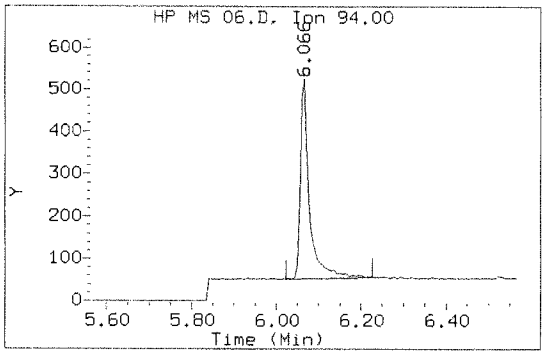
AFTER
MASS
188
AREA
11597
HEIGHT
7928
28-May-2024
13:05



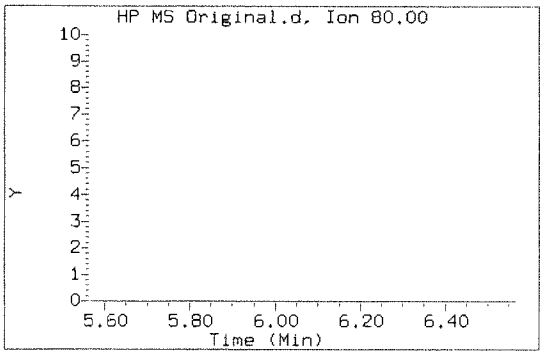
BEFORE
MASS
94
AREA
1254
HEIGHT
505
18-Apr-2024
13:40
ALSHS
Server



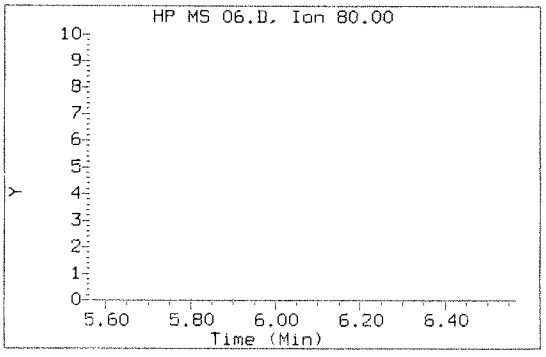
AFTER
MASS
94
AREA
716
HEIGHT
472
28-May-2024
13:05



BEFORE
MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
13:40
ALSHS
Server



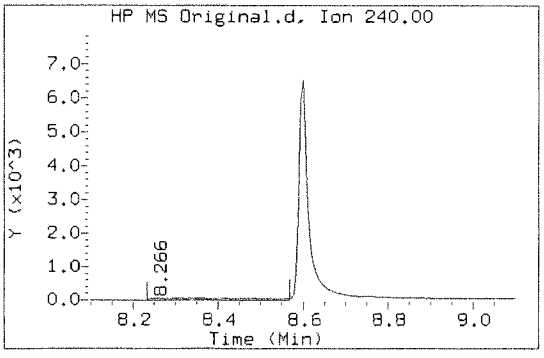
AFTER
MASS
80
AREA
0
HEIGHT
0
28-May-2024
13:05



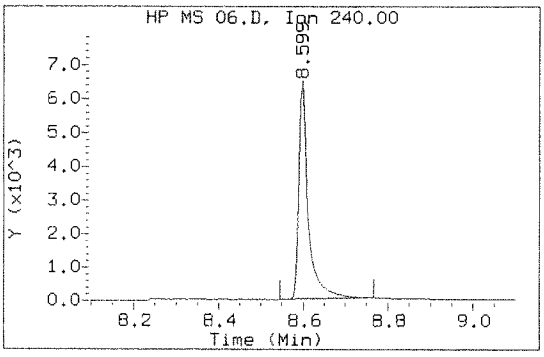
Chrysene-d12 (1719-03-5)

Reason Code:

BEFORE
MASS
240
AREA
955
HEIGHT
50
18-Apr-2024
13:40
ALSHS
Server



AFTER
MASS
240
AREA
10029
HEIGHT
6473
28-May-2024
13:05

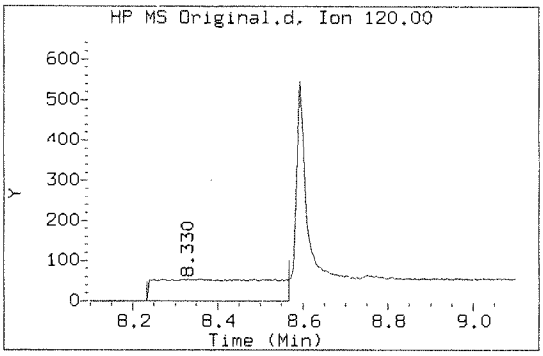


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Inj Date : 18-APR-2024 13:25
InstruID : SV6.i
LabSampID : 14DX-0.05

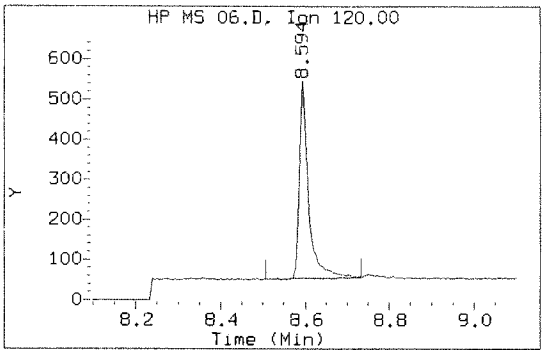
Chrysene-d12 (1719-03-5)

Reason Code:

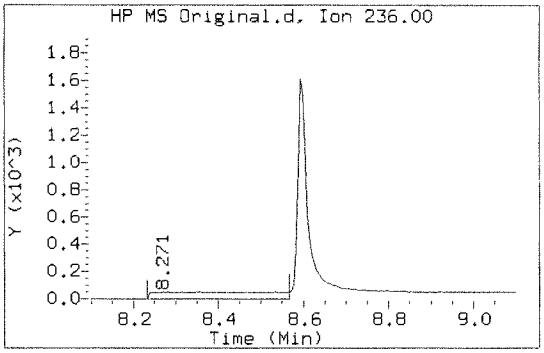
BEFORE
MASS
120
AREA
1034
HEIGHT
53
18-Apr-2024
13:40
ALSHS
Server



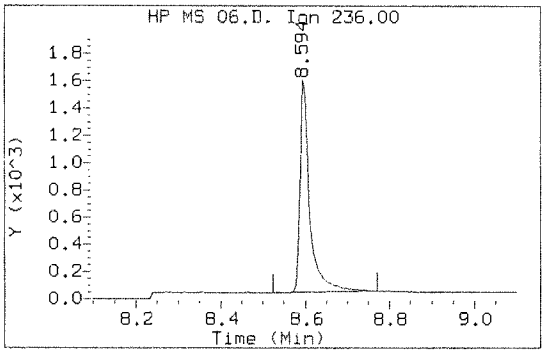
AFTER
MASS
120
AREA
729
HEIGHT
493
28-May-2024
13:05



BEFORE
MASS
236
AREA
955
HEIGHT
49
18-Apr-2024
13:40
ALSHS
Server



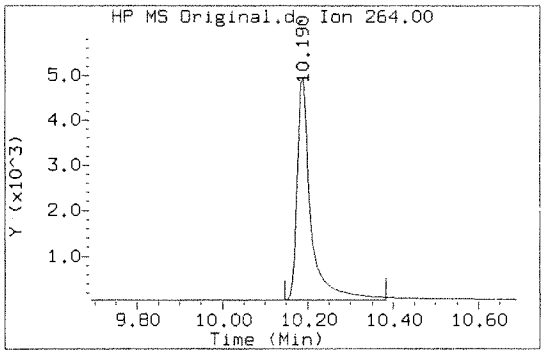
AFTER
MASS
236
AREA
2416
HEIGHT
1557
28-May-2024
13:05



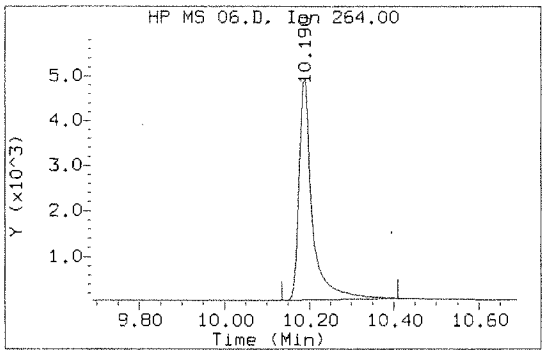
Perylene-d12 (1520-96-3)

Reason Code:

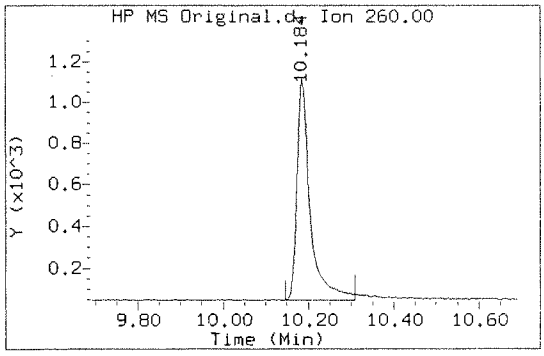
BEFORE
MASS
264
AREA
10683
HEIGHT
4875
18-Apr-2024
13:40
ALSHS
Server



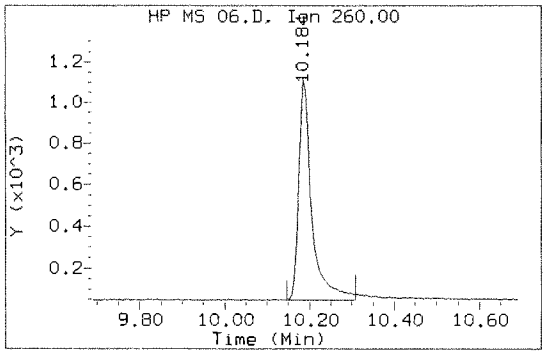
AFTER
MASS
264
AREA
10409
HEIGHT
4868
28-May-2024
13:05



BEFORE
MASS
260
AREA
2254
HEIGHT
1070
18-Apr-2024
13:40
ALSHS
Server



AFTER
MASS
260
AREA
2254
HEIGHT
1070
28-May-2024
13:05



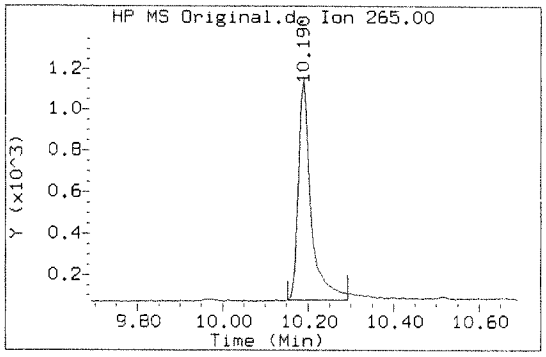
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Inj Date : 18-APR-2024 13:25
InstruID : SV6.i
LabSampID : 14DX-0.05

Perylene-d12 (1520-96-3)

Reason Code:

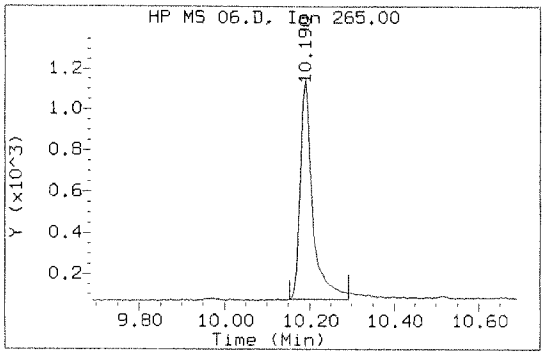
BEFORE

MASS
265
AREA
2161
HEIGHT
1074
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
265
AREA
2161
HEIGHT
1074
28-May-2024
13:05

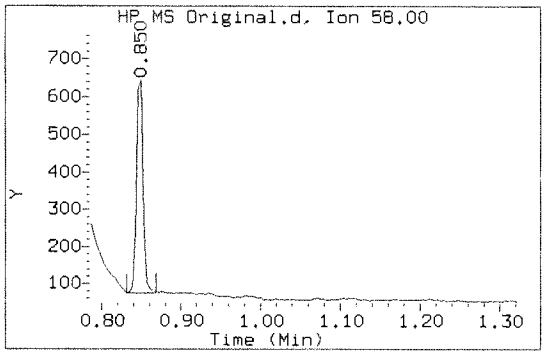


1,4-Dioxane ()

Reason Code:

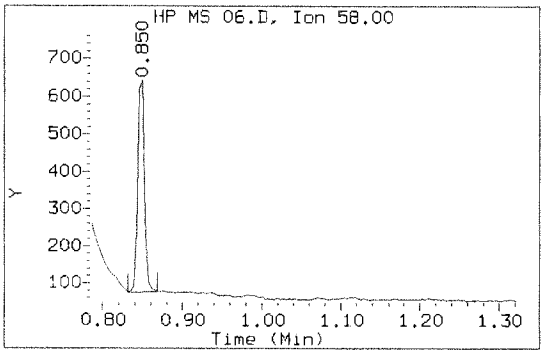
BEFORE

MASS
58
AREA
339
HEIGHT
569
18-Apr-2024
13:40
ALSHS
Server



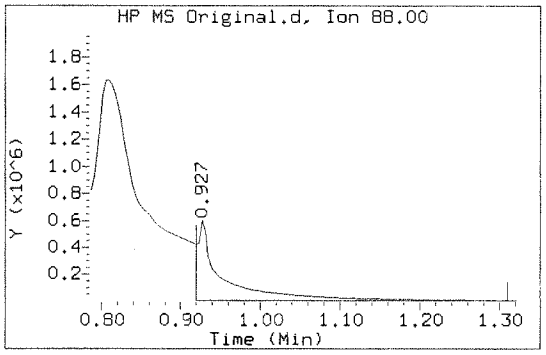
AFTER

MASS
58
AREA
339
HEIGHT
568
28-May-2024
13:05



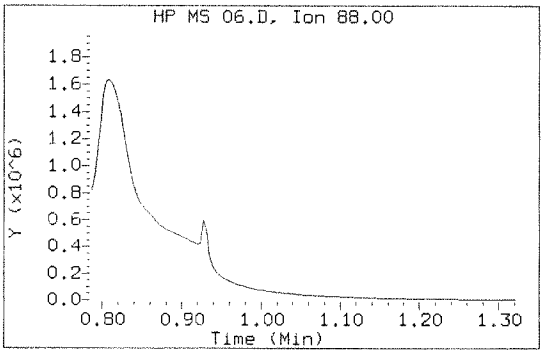
BEFORE

MASS
88
AREA
1337438
HEIGHT
596391
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
88
AREA
0
HEIGHT
0
28-May-2024
13:05

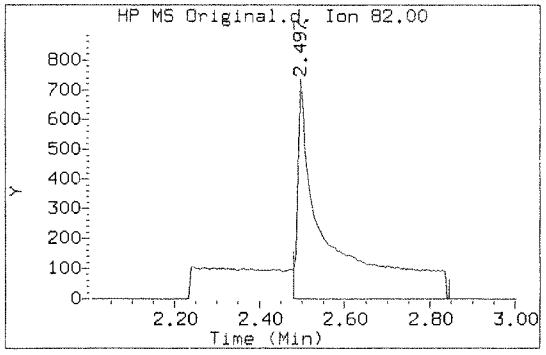


Nitrobenzene-d5 (4165-60-0)

Reason Code:

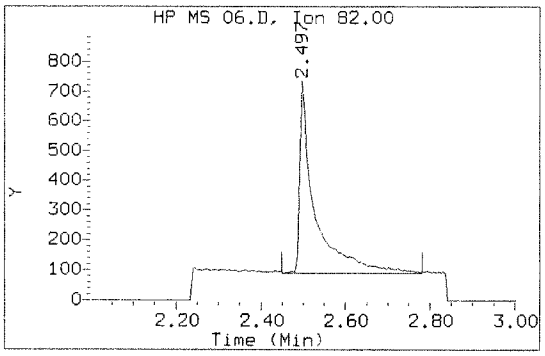
BEFORE

MASS
82
AREA
3516
HEIGHT
737
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
82
AREA
1589
HEIGHT
647
28-May-2024
13:05

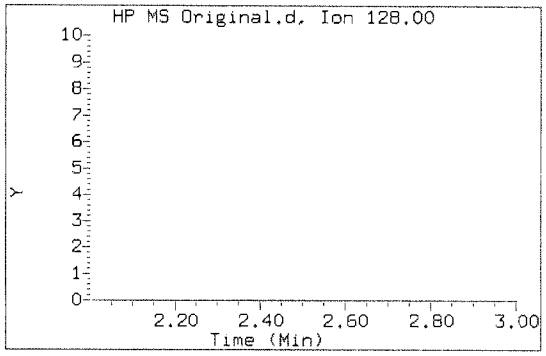


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InstruID : SV6.i
LabSampID : 14DX-0.05

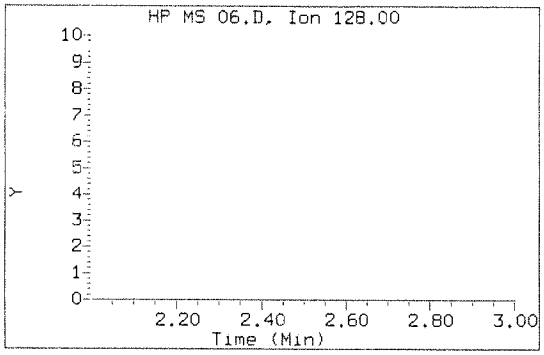
Nitrobenzene-d5 (4165-60-0)

Reason Code:

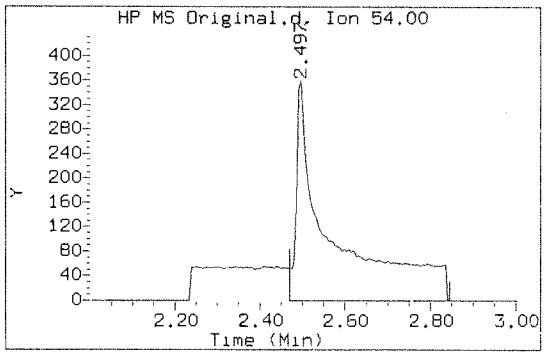
BEFORE
MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
13:40
ALSHS
Server



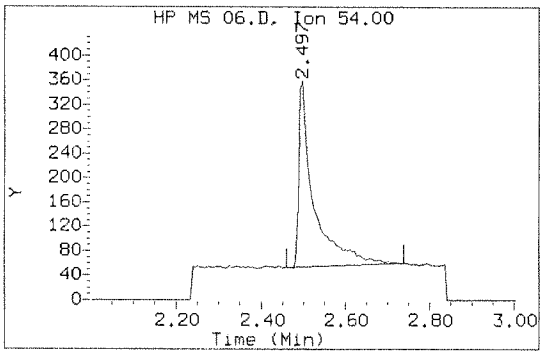
AFTER
MASS
128
AREA
0
HEIGHT
0
28-May-2024
13:05



BEFORE
MASS
54
AREA
1999
HEIGHT
359
18-Apr-2024
13:40
ALSHS
Server



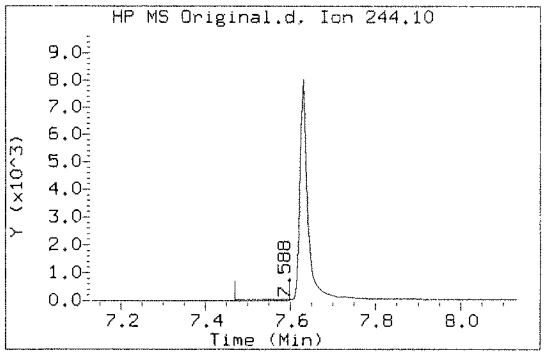
AFTER
MASS
54
AREA
745
HEIGHT
305
28-May-2024
13:05



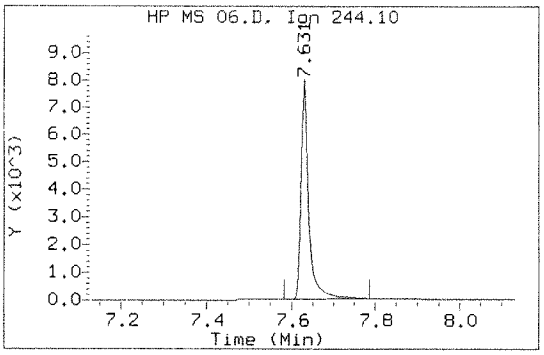
4-Terphenyl-d14 (1718-51-0)

Reason Code:

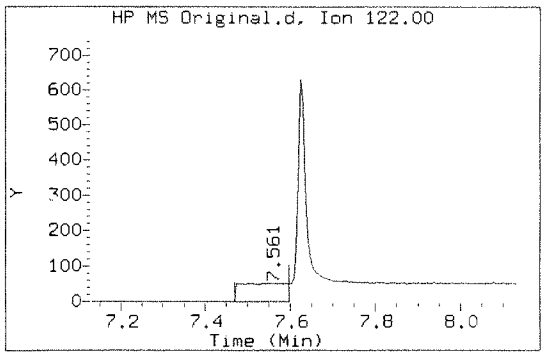
BEFORE
MASS
244.1
AREA
363
HEIGHT
48
18-Apr-2024
13:40
ALSHS
Server



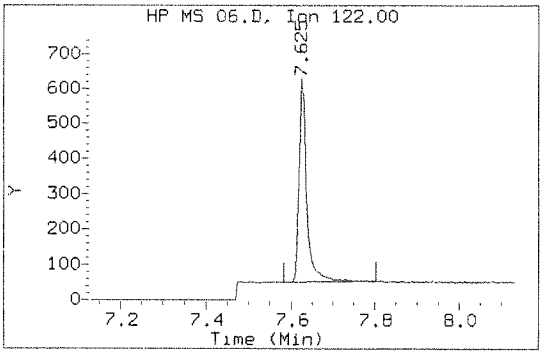
AFTER
MASS
244.1
AREA
10047
HEIGHT
7987
28-May-2024
13:05



BEFORE
MASS
122
AREA
394
HEIGHT
52
18-Apr-2024
13:40
ALSHS
Server



AFTER
MASS
122
AREA
741
HEIGHT
579
28-May-2024
13:05



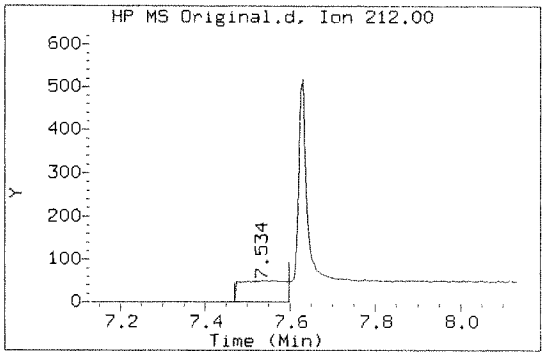
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Inj Date : 18-APR-2024 13:25
InstruID : SV6.i
LabSampID : 14DX-0.05

4-Terphenyl-d14 (1718-51-0)

Reason Code:

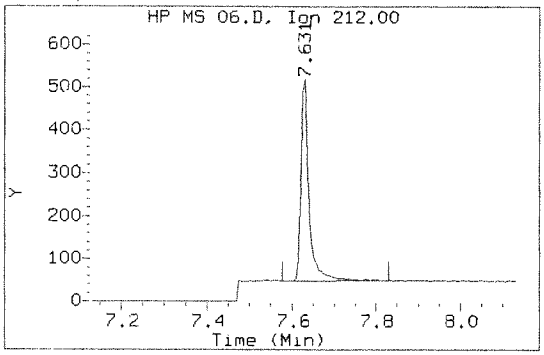
BEFORE

MASS
212
AREA
372
HEIGHT
49
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
212
AREA
623
HEIGHT
470
28-May-2024
13:05

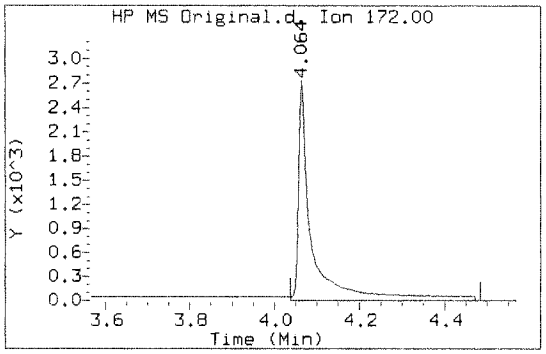


2-Fluorobiphenyl (321-60-8)

Reason Code:

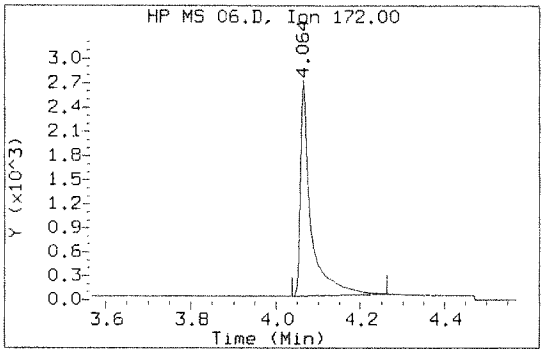
BEFORE

MASS
172
AREA
6214
HEIGHT
2735
18-Apr-2024
13:40
ALSHS
Server



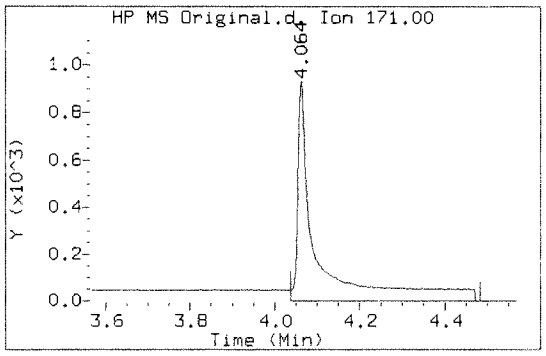
AFTER

MASS
172
AREA
4588
HEIGHT
2684
28-May-2024
13:05



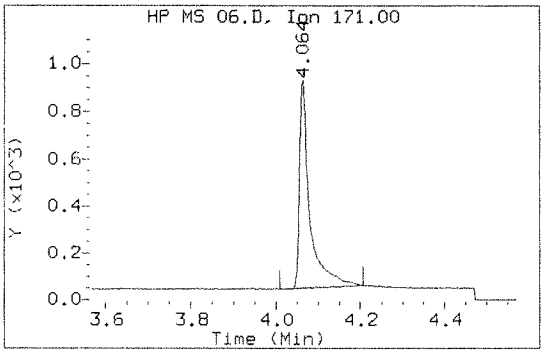
BEFORE

MASS
171
AREA
2920
HEIGHT
933
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
171
AREA
1481
HEIGHT
881
28-May-2024
13:05



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D Page 1
Report Date: 17-Jul-2024 16:41

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Lab Smp Id: 14DX-0.10
Inj Date : 18-APR-2024 13:42
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.10
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 13:42 Cal File: 07.D
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)	
* 20 1,4-Dichlorobenzene-d4	152	2.089	2.089	(1.000)	2318	0.10000		(aM)
* 45 Naphthalene-d8	136	3.076	3.076	(1.000)	7718	0.10000		(M)
$ 33 Nitrobenzene-d5	82	2.496	2.502	(0.812)	2452	0.10000	0.1058	(M)
* 86 Acenaphthene-d10	164	4.665	4.671	(1.000)	4530	0.10000		(M)
$ 69 2-Fluorobiphenyl	172	4.063	4.067	(0.871)	7366	0.10000	0.1064	(M)
* 126 Phenanthrene-d10	188	6.065	6.065	(1.000)	8772	0.10000		(M)
* 182 Chrysene-d12	240	8.599	8.599	(1.000)	7453	0.10000		(M)
$ 158 4-Terphenyl-d14	244	7.630	7.630	(0.887)	15672	0.10000	0.1032	(M)
* 198 Perylene-d12	264	10.189	10.189	(1.000)	7806	0.10000		
1 1,4-Dioxane	58	0.827	0.820	(0.396)	473	0.10000	0.09527	(QM)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D

Date : 18-APR-2024 13:42

Client ID:

Instrument: SV6.i

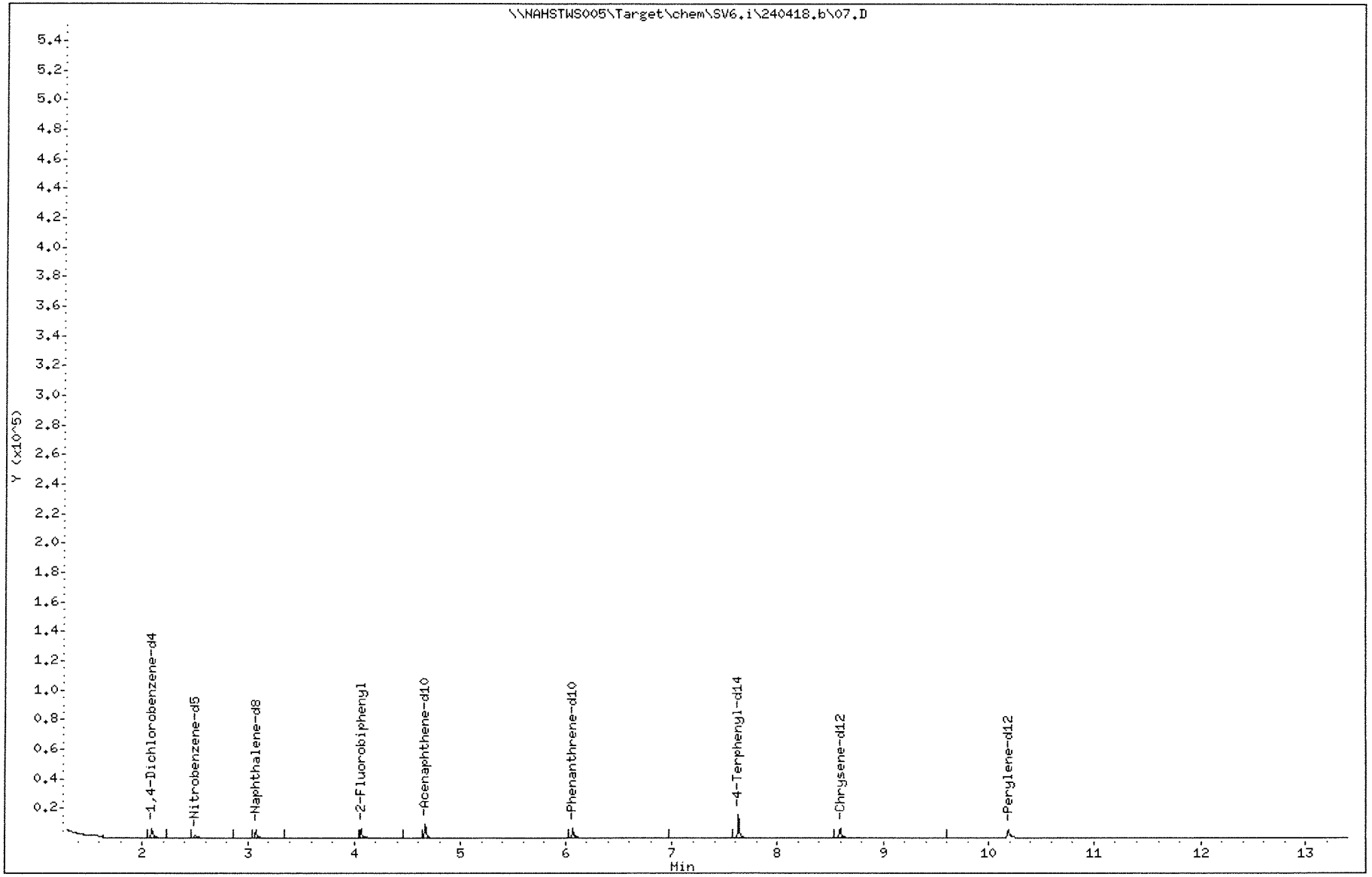
Sample Info: 14DX-0.10

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

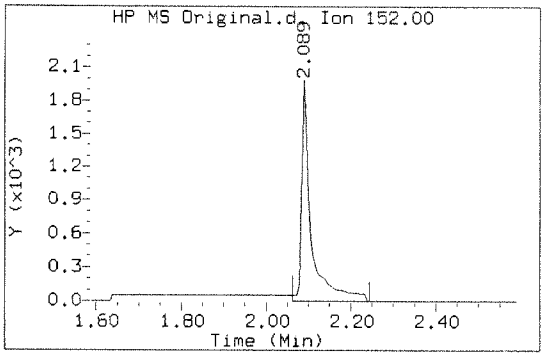


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Inj Date : 18-APR-2024 13:42
InstruID : SV6.i
LabSampID : 14DX-0.10

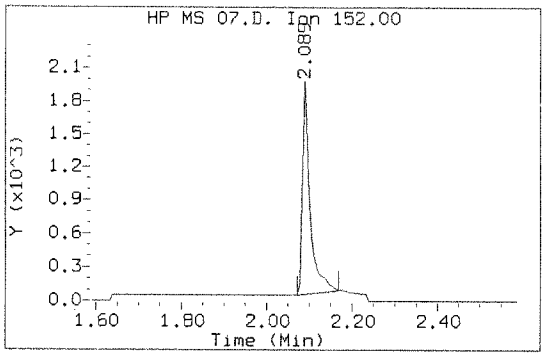
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

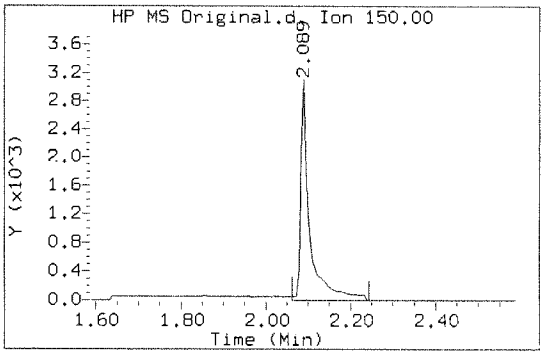
BEFORE
MASS
152
AREA
3091
HEIGHT
1986
18-Apr-2024
13:57
ALSHS
Server



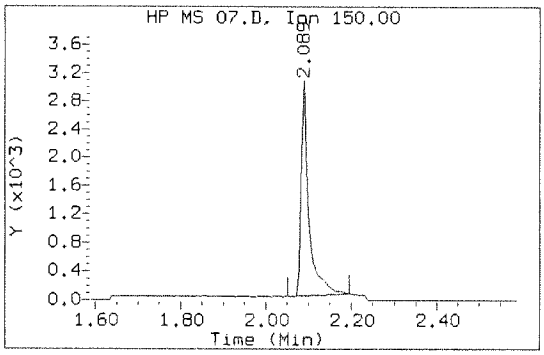
AFTER
MASS
152
AREA
2318
HEIGHT
1925
23-May-2024
08:54



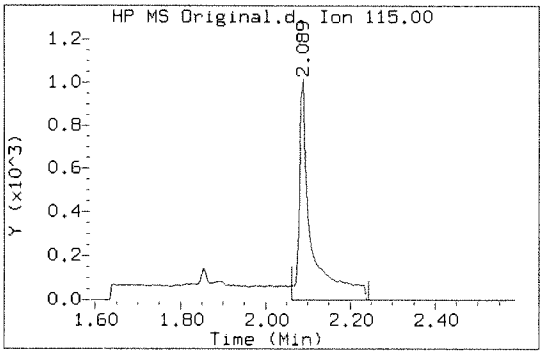
BEFORE
MASS
150
AREA
4519
HEIGHT
3105
18-Apr-2024
13:57
ALSHS
Server



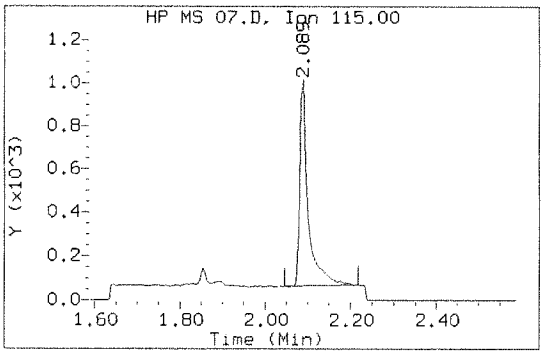
AFTER
MASS
150
AREA
3766
HEIGHT
3045
23-May-2024
08:54



BEFORE
MASS
115
AREA
1993
HEIGHT
1016
18-Apr-2024
13:57
ALSHS
Server



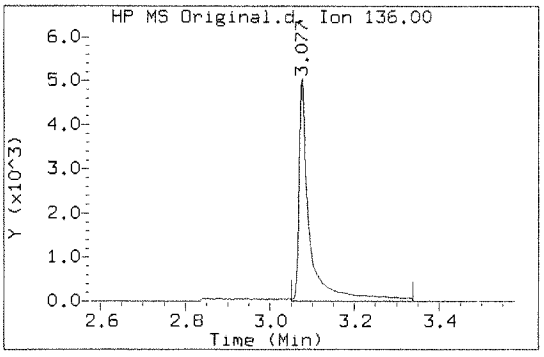
AFTER
MASS
115
AREA
1271
HEIGHT
950
23-May-2024
08:54



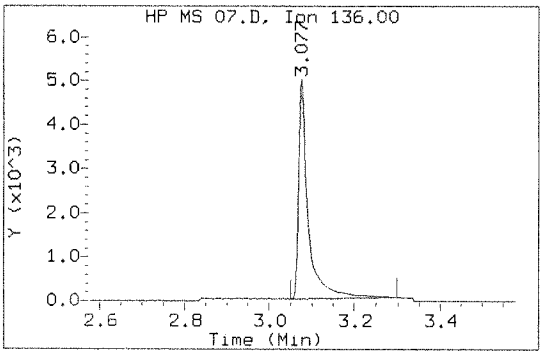
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
8891
HEIGHT
5045
18-Apr-2024
13:57
ALSHS
Server



AFTER
MASS
136
AREA
7718
HEIGHT
4990
23-May-2024
08:54

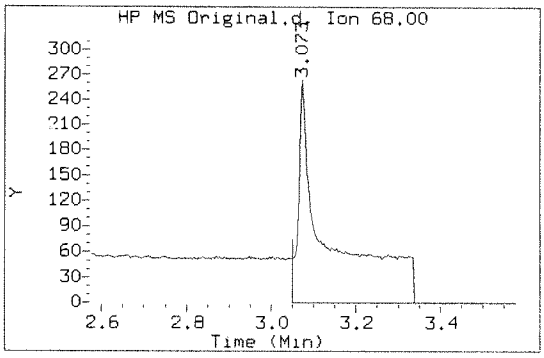


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Inj Date : 18-APR-2024 13:42
InstruID : SV6.i
LabSampID : 14DX-0.10

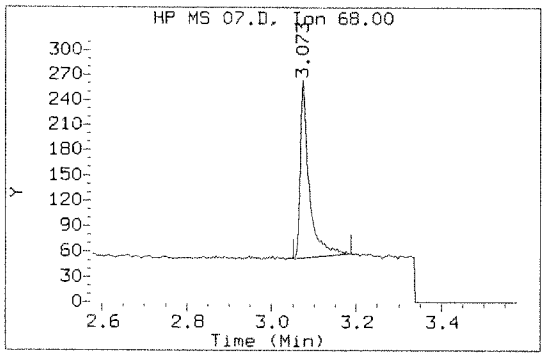
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
68
AREA
1251
HEIGHT
264
18-Apr-2024
13:57
ALSHS
Server



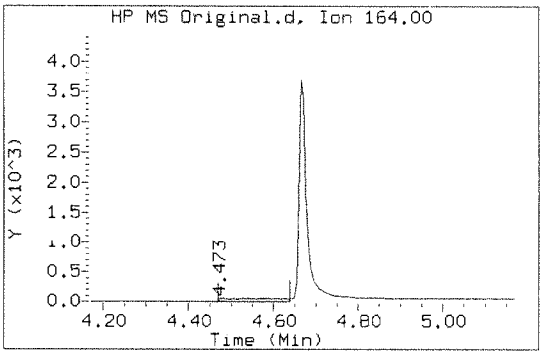
AFTER
MASS
68
AREA
296
HEIGHT
211
23-May-2024
08:54



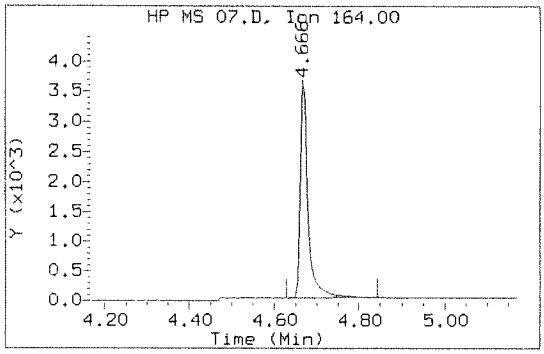
Acenaphthene-d10 (15067-26-2)

Reason Code:

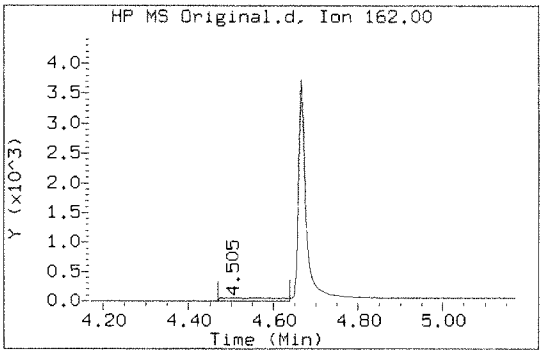
BEFORE
MASS
164
AREA
497
HEIGHT
50
18-Apr-2024
13:57
ALSHS
Server



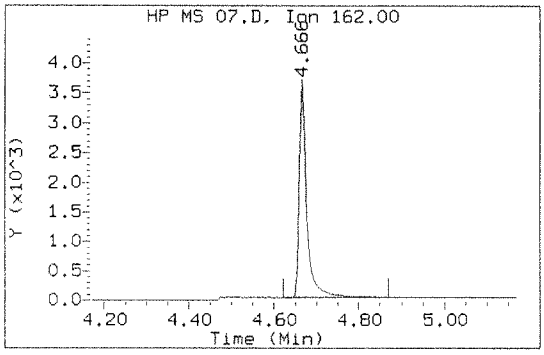
AFTER
MASS
164
AREA
4530
HEIGHT
3643
23-May-2024
08:54



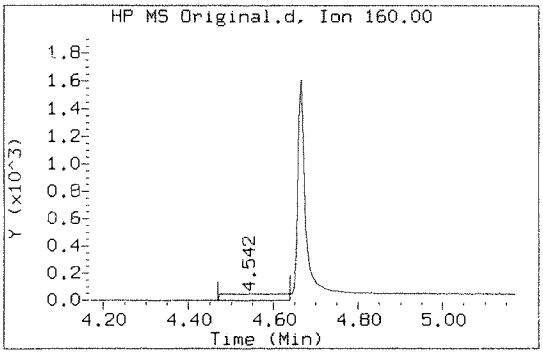
BEFORE
MASS
162
AREA
500
HEIGHT
53
18-Apr-2024
13:57
ALSHS
Server



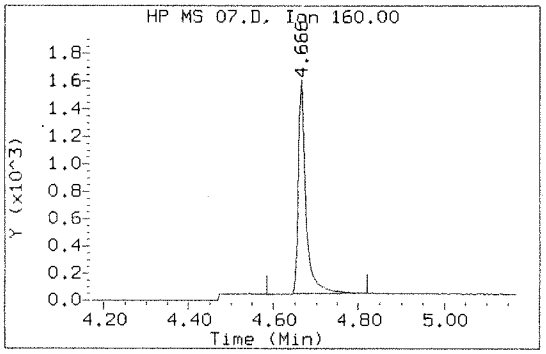
AFTER
MASS
162
AREA
4355
HEIGHT
3679
23-May-2024
08:54



BEFORE
MASS
160
AREA
483
HEIGHT
49
18-Apr-2024
13:57
ALSHS
Server



AFTER
MASS
160
AREA
1883
HEIGHT
1560
23-May-2024
08:54

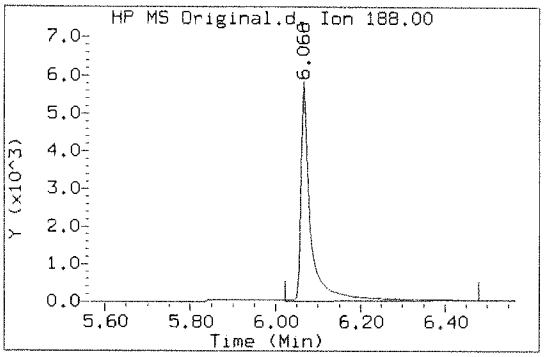


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Inj Date : 18-APR-2024 13:42
InstruID : SV6.i
LabSampID : 14DX-0.10

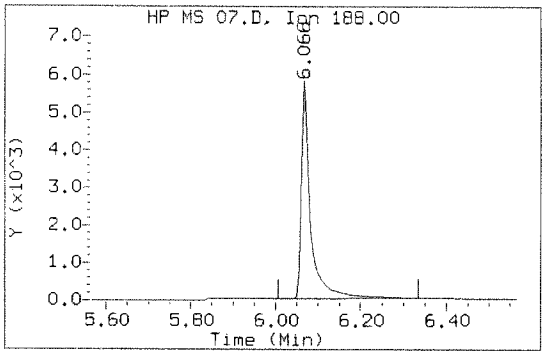
Phenanthrene-d10 (1517-22-2)

Reason Code:

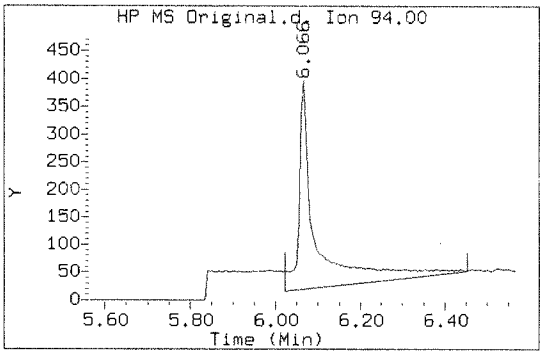
BEFORE
MASS
188
AREA
9529
HEIGHT
5821
18-Apr-2024
13:57
ALSHS
Server



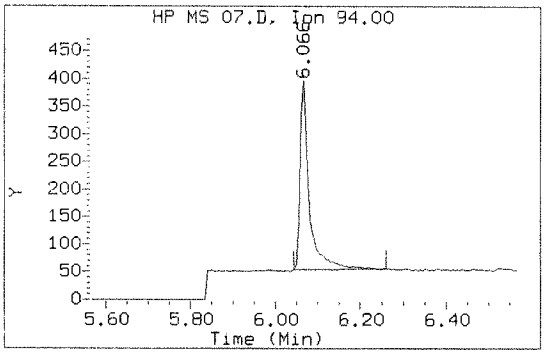
AFTER
MASS
188
AREA
8772
HEIGHT
5788
23-May-2024
08:54



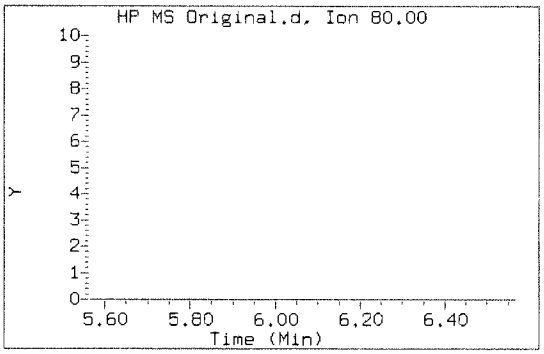
BEFORE
MASS
94
AREA
1042
HEIGHT
377
18-Apr-2024
13:57
ALSHS
Server



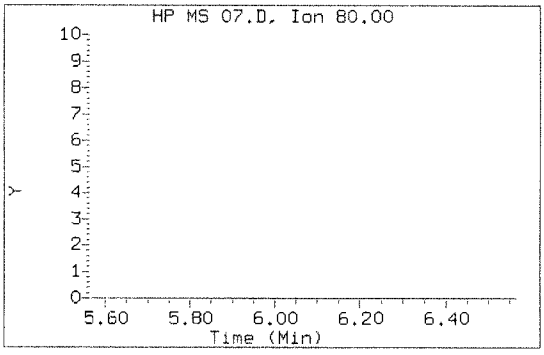
AFTER
MASS
94
AREA
518
HEIGHT
342
23-May-2024
08:54



BEFORE
MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
13:57
ALSHS
Server



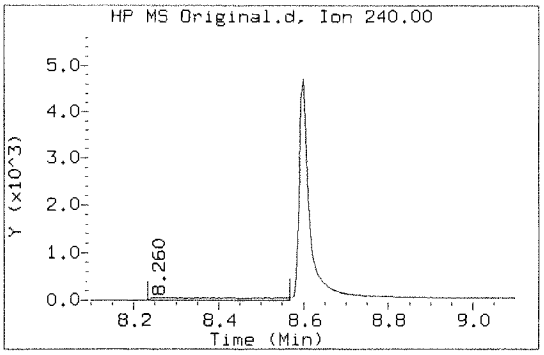
AFTER
MASS
80
AREA
0
HEIGHT
0
23-May-2024
08:54



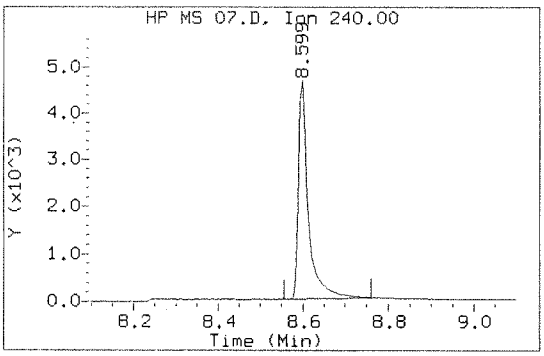
Chrysene-d12 (1719-03-5)

Reason Code:

BEFORE
MASS
240
AREA
957
HEIGHT
50
18-Apr-2024
13:57
ALSHS
Server



AFTER
MASS
240
AREA
7453
HEIGHT
4662
23-May-2024
08:54



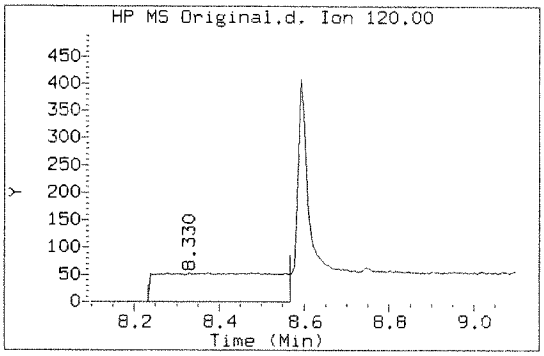
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Inj Date : 18-APR-2024 13:42
InstruID : SV6.i
LabSampID : 14DX-0.10

Chrysene-d12 (1719-03-5)

Reason Code:

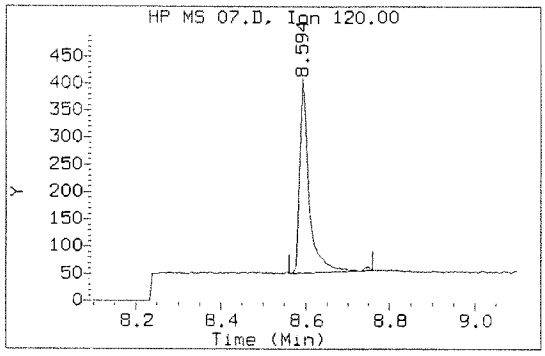
BEFORE

MASS
120
AREA
1029
HEIGHT
53
18-Apr-2024
13:57
ALSHS
Server



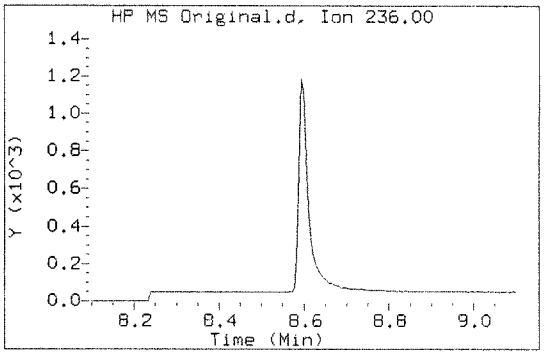
AFTER

MASS
120
AREA
541
HEIGHT
357
23-May-2024
08:54



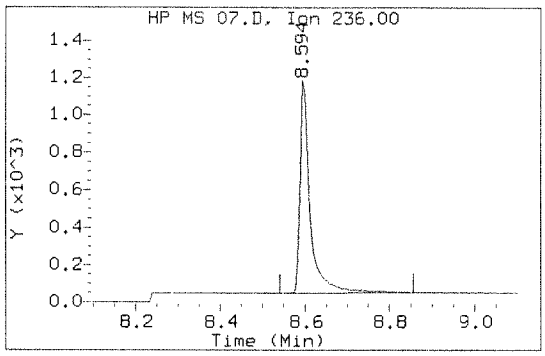
BEFORE

MASS
236
AREA
0
HEIGHT
0
18-Apr-2024
13:57
ALSHS
Server



AFTER

MASS
236
AREA
1875
HEIGHT
1139
23-May-2024
08:54

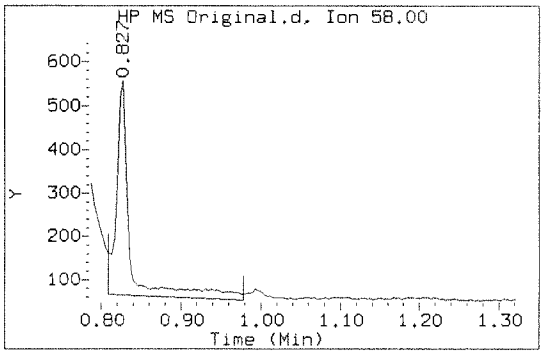


1,4-Dioxane ()

Reason Code:

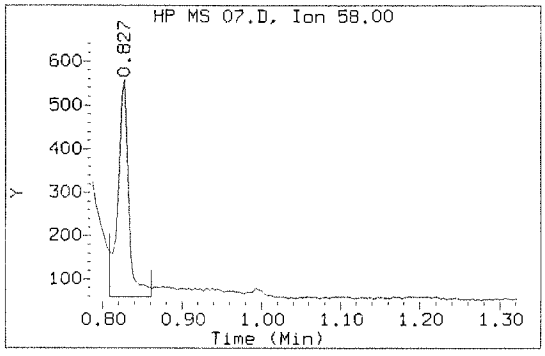
BEFORE

MASS
58
AREA
589
HEIGHT
493
18-Apr-2024
13:57
ALSHS
Server



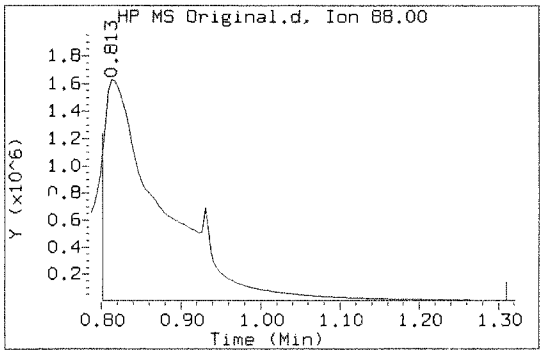
AFTER

MASS
58
AREA
473
HEIGHT
499
23-May-2024
08:54



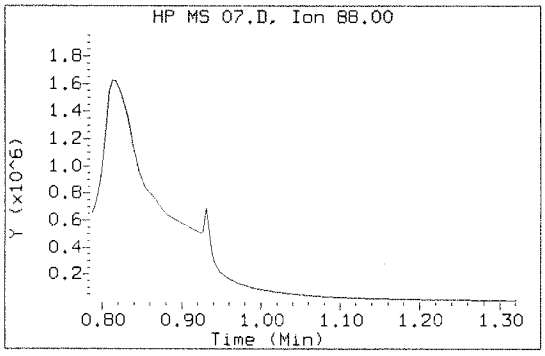
BEFORE

MASS
88
AREA
8266937
HEIGHT
1620371
18-Apr-2024
13:57
ALSHS
Server



AFTER

MASS
88
AREA
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HEIGHT
1620838
23-May-2024
08:54

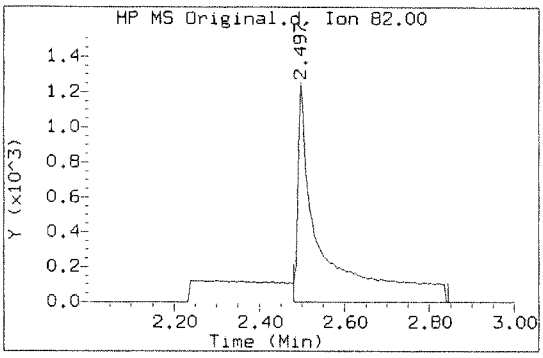


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Inj Date : 18-APR-2024 13:42
InstruID : SV6.i
LabSampID : 14DX-0.10

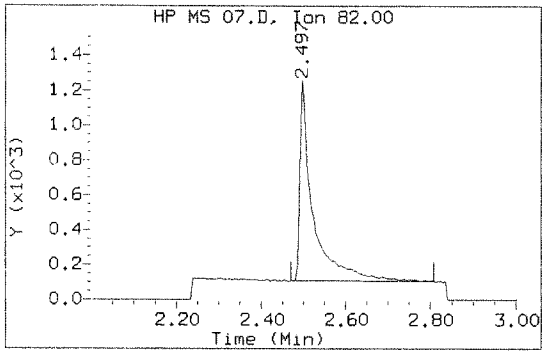
Nitrobenzene-d5 (4165-60-0)

Reason Code:

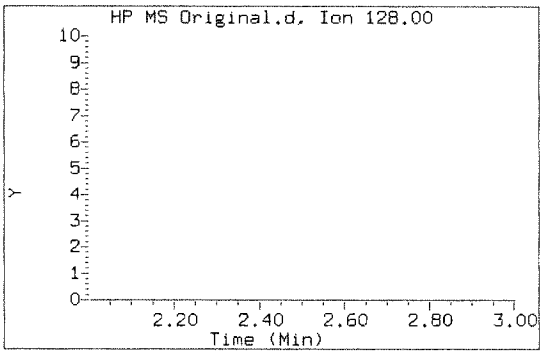
BEFORE
MASS
82
AREA
4733
HEIGHT
1257
18-Apr-2024
13:57
ALSHS
Server



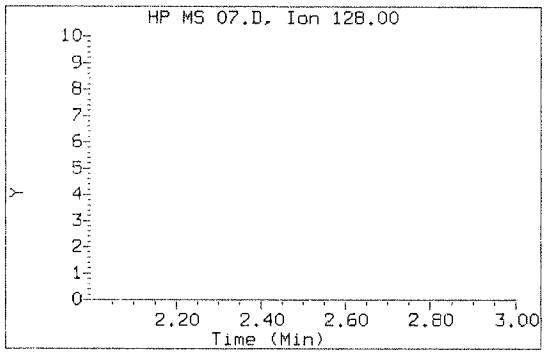
AFTER
MASS
82
AREA
2452
HEIGHT
1148
23-May-2024
08:54



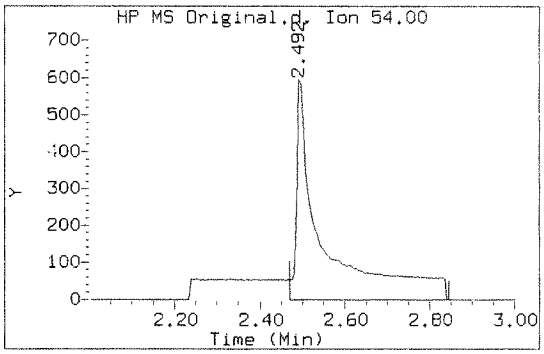
BEFORE
MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
13:57
ALSHS
Server



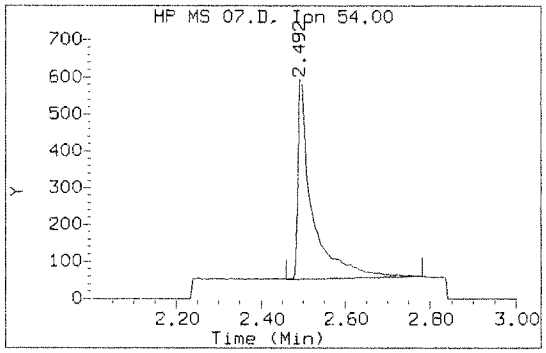
AFTER
MASS
128
AREA
0
HEIGHT
0
23-May-2024
08:54



BEFORE
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AREA
2506
HEIGHT
594
18-Apr-2024
13:57
ALSHS
Server



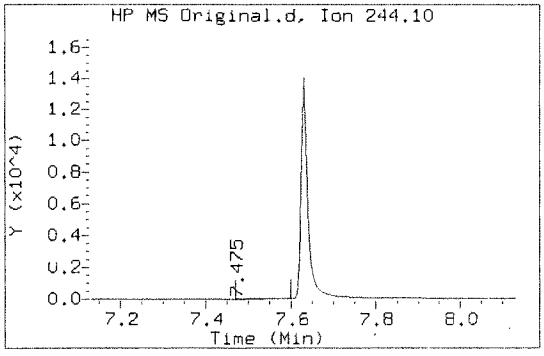
AFTER
MASS
54
AREA
1263
HEIGHT
541
23-May-2024
08:54



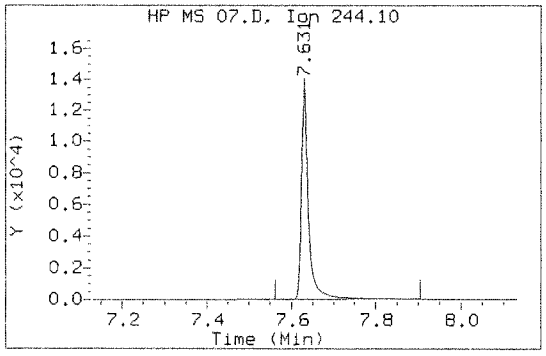
4-Terphenyl-d14 (1718-51-0)

Reason Code:

BEFORE
MASS
244.1
AREA
172
HEIGHT
45
18-Apr-2024
13:57
ALSHS
Server



AFTER
MASS
244.1
AREA
15672
HEIGHT
14035
23-May-2024
08:54

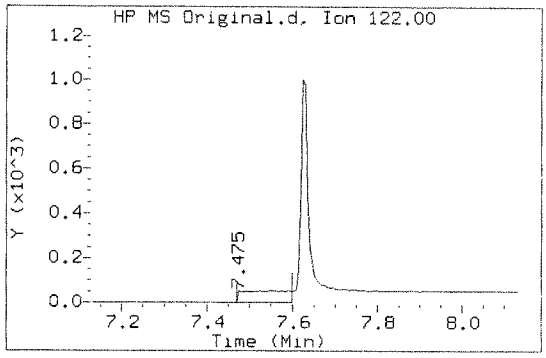


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Inj Date : 18-APR-2024 13:42
InstruID : SV6.i
LabSampID : 14DX-0.10

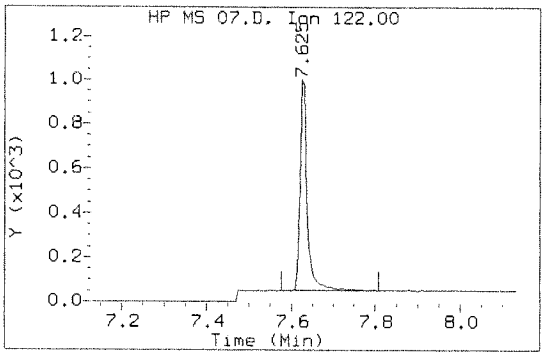
4-Terphenyl-d14 (1718-51-0)

Reason Code:

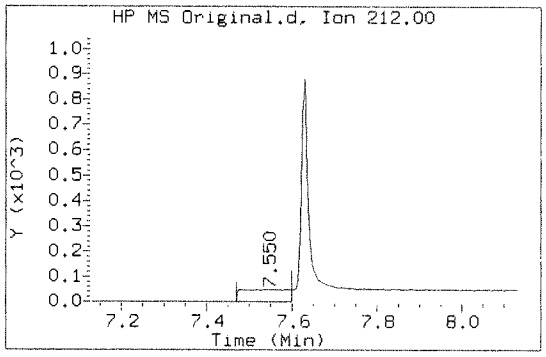
BEFORE
MASS
122
AREA
389
HEIGHT
51
18-Apr-2024
13:57
ALSHS
Server



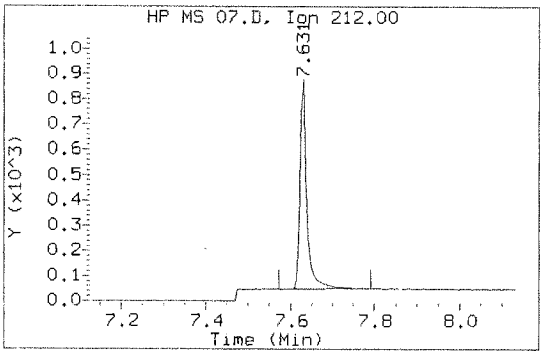
AFTER
MASS
122
AREA
1143
HEIGHT
950
23-May-2024
08:54



BEFORE
MASS
212
AREA
368
HEIGHT
49
18-Apr-2024
13:57
ALSHS
Server



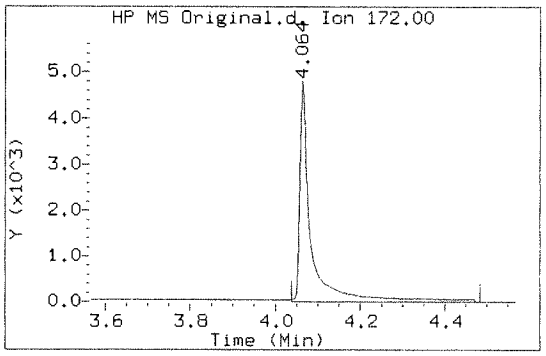
AFTER
MASS
212
AREA
942
HEIGHT
831
23-May-2024
08:54



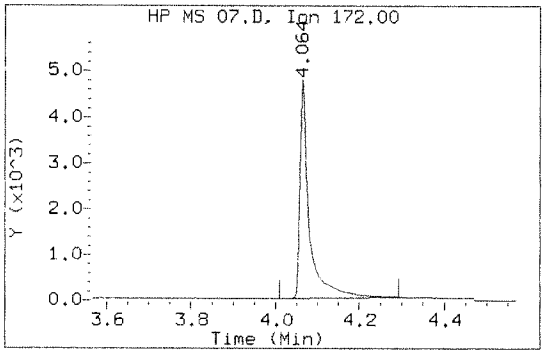
2-Fluorobiphenyl (321-60-8)

Reason Code:

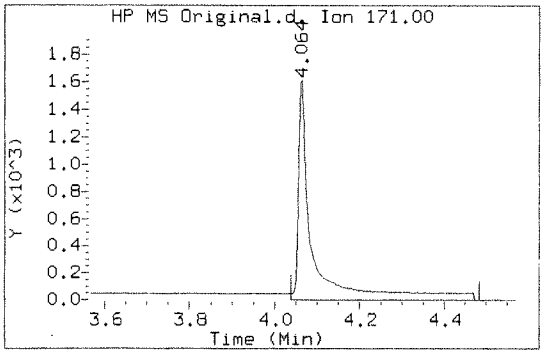
BEFORE
MASS
172
AREA
9042
HEIGHT
4809
18-Apr-2024
13:57
ALSHS
Server



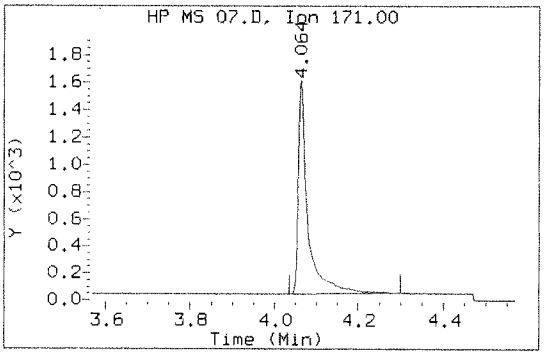
AFTER
MASS
172
AREA
7366
HEIGHT
4757
23-May-2024
08:54



BEFORE
MASS
171
AREA
3879
HEIGHT
1615
18-Apr-2024
13:57
ALSHS
Server



AFTER
MASS
171
AREA
2501
HEIGHT
1566
23-May-2024
08:54



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Lab Smp Id: 14DX-0.15
Inj Date : 18-APR-2024 14:00
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.15
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 14:00 Cal File: 08.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)	
* 20 1,4-Dichlorobenzene-d4	152	2.094	2.089	(1.000)	3084	0.10000		(aM)
* 45 Naphthalene-d8	136	3.076	3.076	(1.000)	9604	0.10000		(M)
$ 33 Nitrobenzene-d5	82	2.497	2.502	(0.812)	4499	0.15000	0.1560	(AM)
* 86 Acenaphthene-d10	164	4.665	4.671	(1.000)	5448	0.10000		(M)
$ 69 2-Fluorobiphenyl	172	4.064	4.067	(0.871)	13067	0.15000	0.1569	(AM)
* 126 Phenanthrene-d10	188	6.056	6.065	(1.000)	10645	0.10000		(M)
* 182 Chrysene-d12	240	8.599	8.599	(1.000)	8954	0.10000		(M)
$ 158 4-Terphenyl-d14	244	7.630	7.630	(0.887)	27519	0.15000	0.1509	(AM)
* 198 Perylene-d12	264	10.189	10.189	(1.000)	9228	0.10000		
1 1,4-Dioxane	58	0.842	0.820	(0.402)	984	0.15000	0.1490	(QM)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D

Date : 18-APR-2024 14:00

Client ID:

Instrument: SV6.i

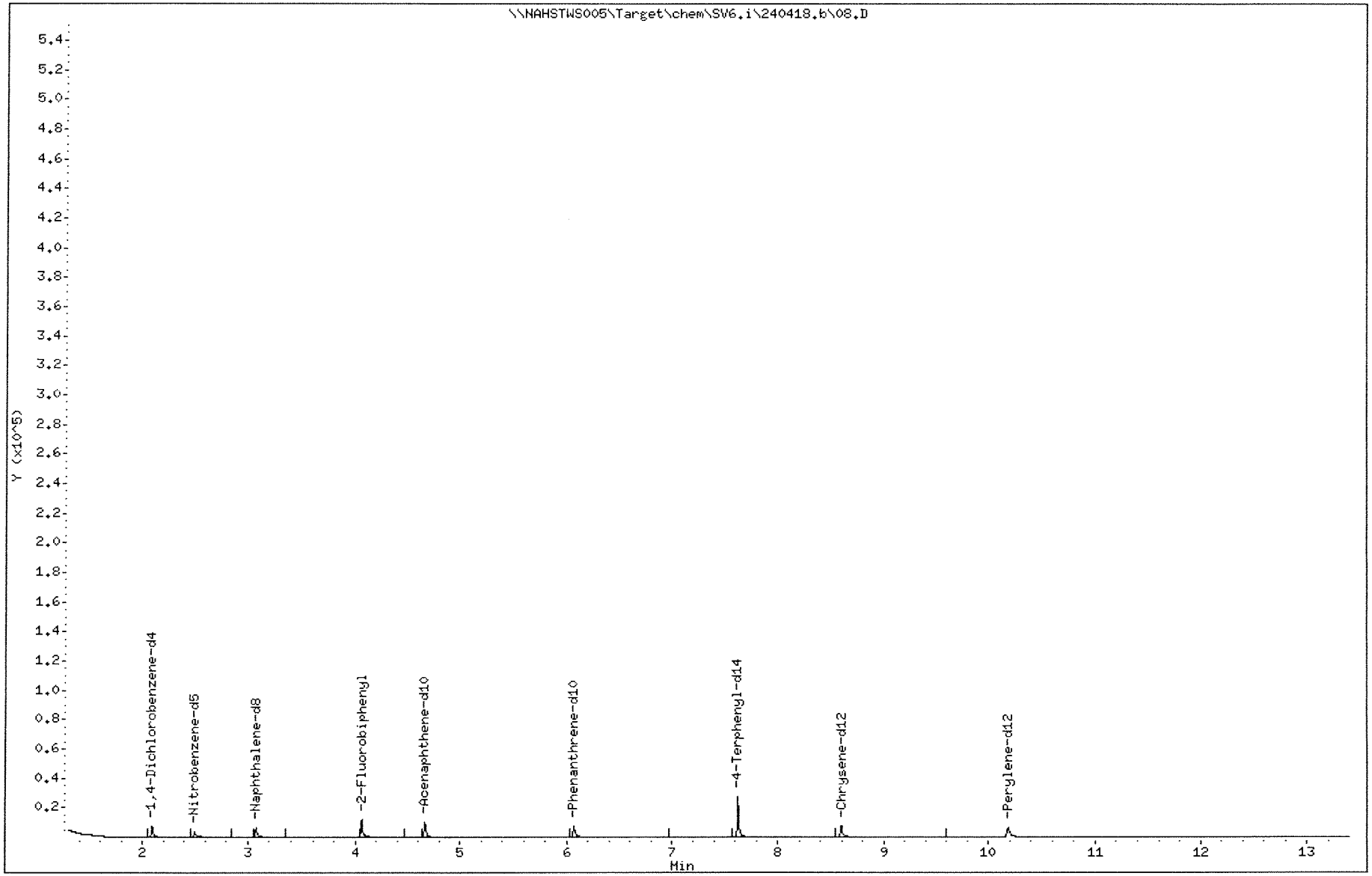
Sample Info: 14DX-0.15

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

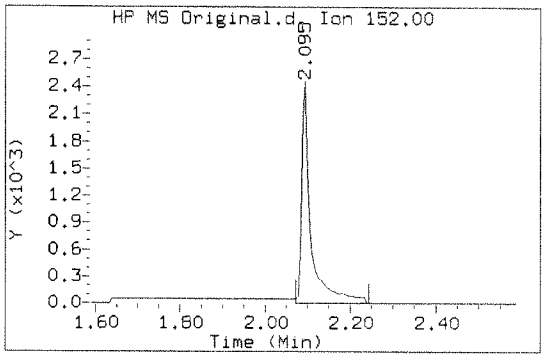


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Inj Date : 18-APR-2024 14:00
InstruID : SV6.i
LabSampID : 14DX-0.15

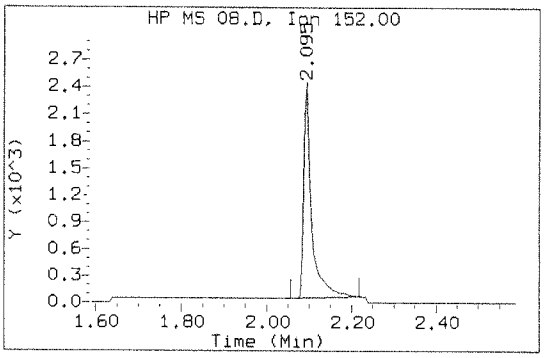
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

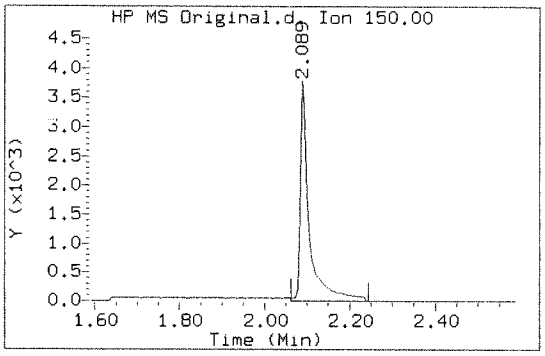
BEFORE
MASS
152
AREA
3705
HEIGHT
2456
18-Apr-2024
14:16
ALSHS
Server



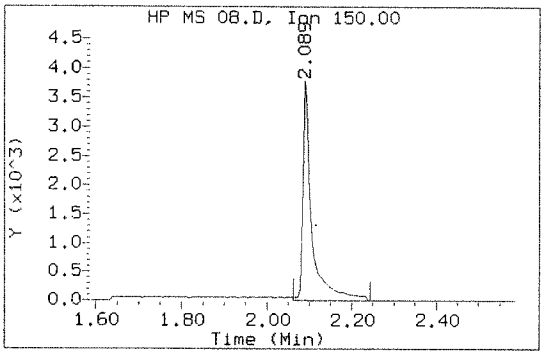
AFTER
MASS
152
AREA
3084
HEIGHT
2400
28-May-2024
13:05



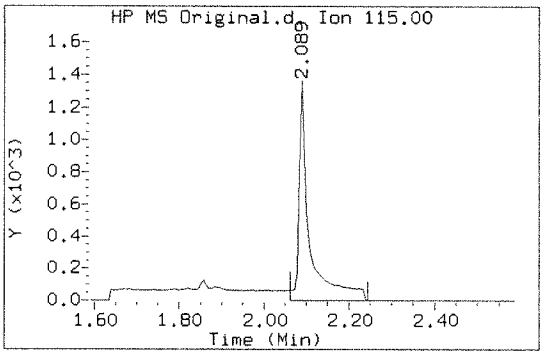
BEFORE
MASS
150
AREA
5535
HEIGHT
3786
18-Apr-2024
14:16
ALSHS
Server



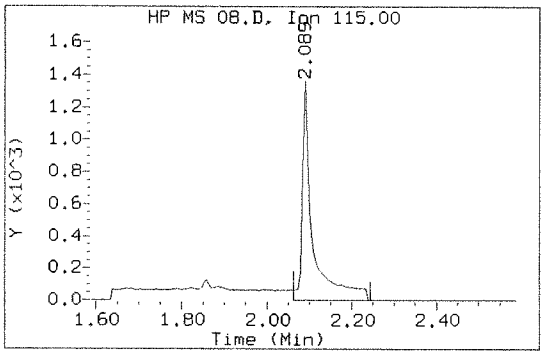
AFTER
MASS
150
AREA
5535
HEIGHT
3786
28-May-2024
13:05



BEFORE
MASS
115
AREA
2326
HEIGHT
1363
18-Apr-2024
14:16
ALSHS
Server



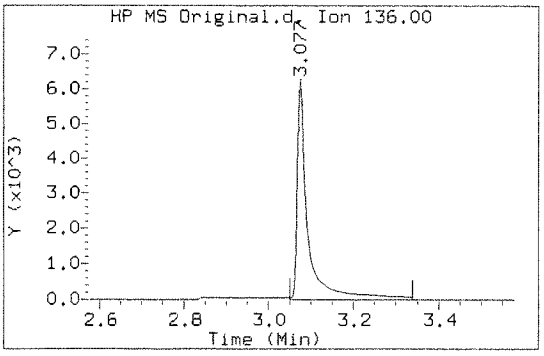
AFTER
MASS
115
AREA
2326
HEIGHT
1363
28-May-2024
13:05



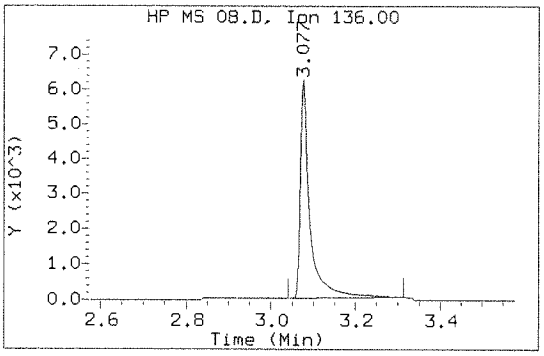
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
10787
HEIGHT
6291
18-Apr-2024
14:16
ALSHS
Server



AFTER
MASS
136
AREA
9604
HEIGHT
6235
28-May-2024
13:05

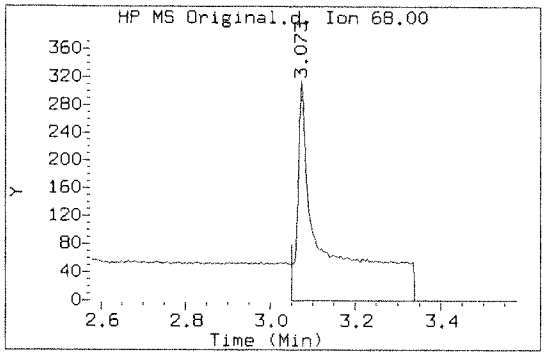


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Inj Date : 18-APR-2024 14:00
InstruID : SV6.i
LabSampID : 14DX-0.15

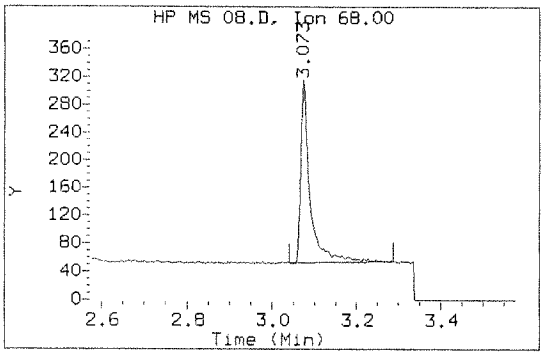
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
68
AREA
1324
HEIGHT
315
18-Apr-2024
14:16
ALSHS
Server



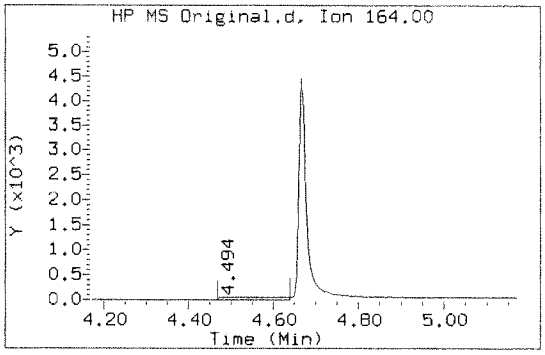
AFTER
MASS
68
AREA
389
HEIGHT
261
28-May-2024
13:05



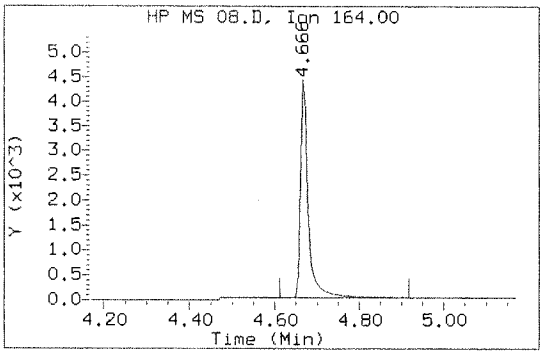
Acenaphthene-d10 (15067-26-2)

Reason Code:

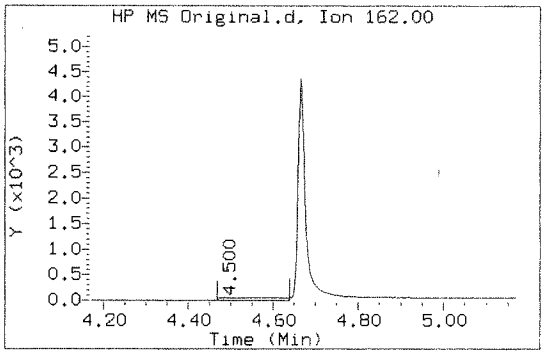
BEFORE
MASS
164
AREA
496
HEIGHT
50
18-Apr-2024
14:16
ALSHS
Server



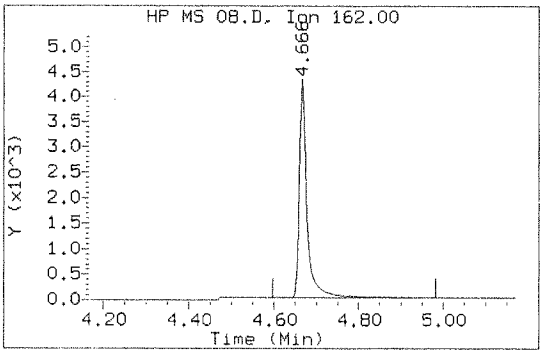
AFTER
MASS
164
AREA
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HEIGHT
4411
28-May-2024
13:05



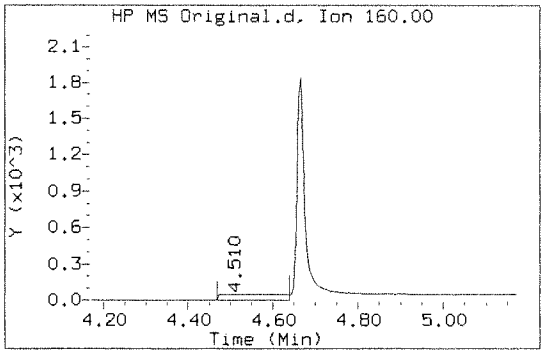
BEFORE
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162
AREA
496
HEIGHT
52
18-Apr-2024
14:16
ALSHS
Server



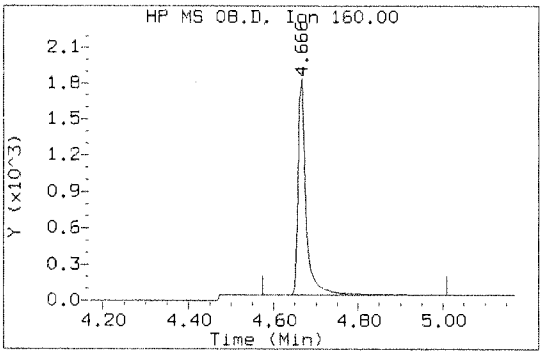
AFTER
MASS
162
AREA
5277
HEIGHT
4319
28-May-2024
13:05



BEFORE
MASS
160
AREA
482
HEIGHT
48
18-Apr-2024
14:16
ALSHS
Server



AFTER
MASS
160
AREA
2305
HEIGHT
1792
28-May-2024
13:05

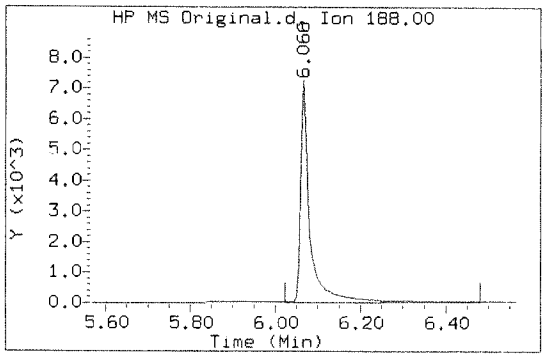


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Inj Date : 18-APR-2024 14:00
InstruID : SV6.i
LabSampID : 14DX-0.15

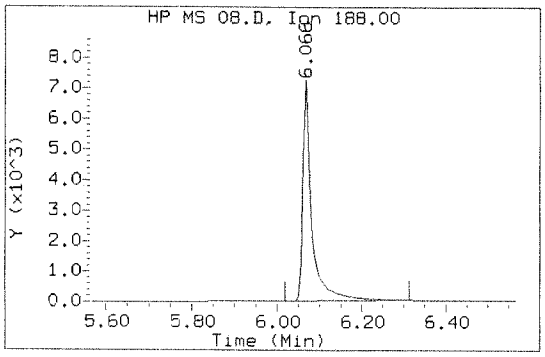
Phenanthrene-d10 (1517-22-2)

Reason Code:

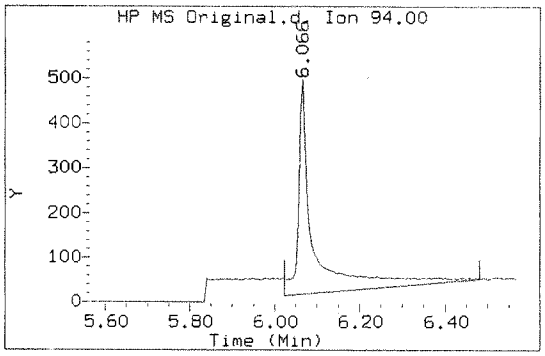
BEFORE
MASS
188
AREA
11494
HEIGHT
7257
18-Apr-2024
14:16
ALSHS
Server



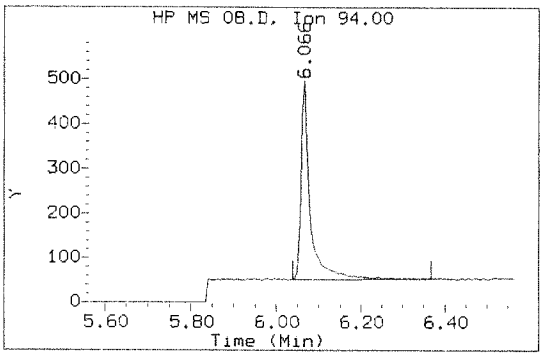
AFTER
MASS
188
AREA
10645
HEIGHT
7224
28-May-2024
13:05



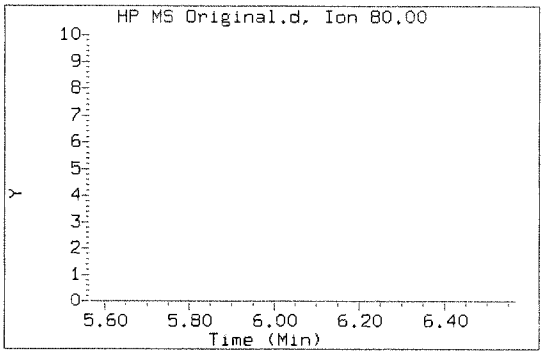
BEFORE
MASS
94
AREA
1207
HEIGHT
478
18-Apr-2024
14:16
ALSHS
Server



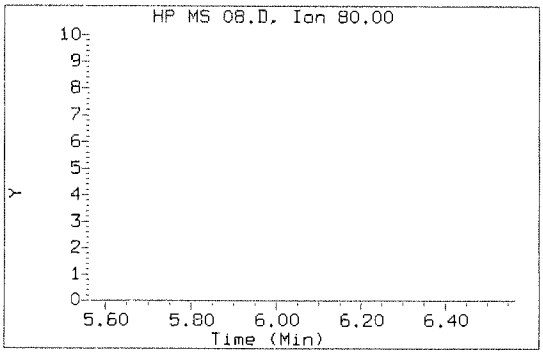
AFTER
MASS
94
AREA
674
HEIGHT
444
28-May-2024
13:05



BEFORE
MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
14:16
ALSHS
Server



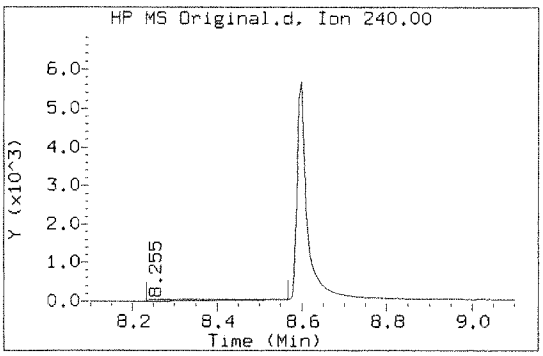
AFTER
MASS
80
AREA
0
HEIGHT
0
28-May-2024
13:05



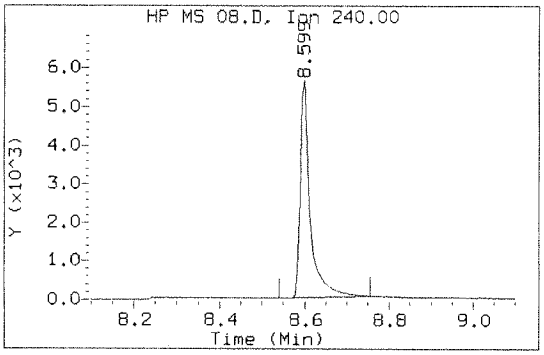
Chrysene-d12 (1719-03-5)

Reason Code:

BEFORE
MASS
240
AREA
453
HEIGHT
46
18-Apr-2024
14:16
ALSHS
Server



AFTER
MASS
240
AREA
8954
HEIGHT
5618
28-May-2024
13:05

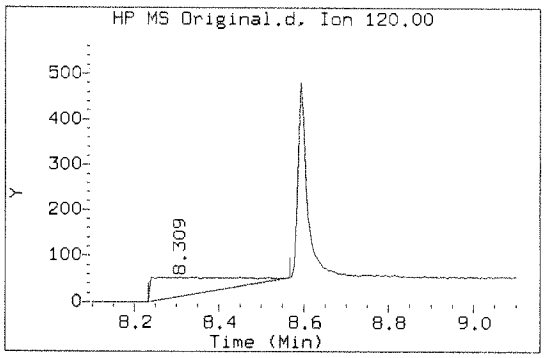


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Inj Date : 18-APR-2024 14:00
InstruID : SV6.i
LabSampID : 14DX-0.15

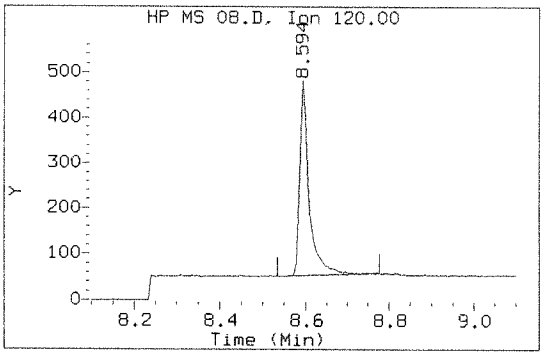
Chrysene-d12 (1719-03-5)

Reason Code:

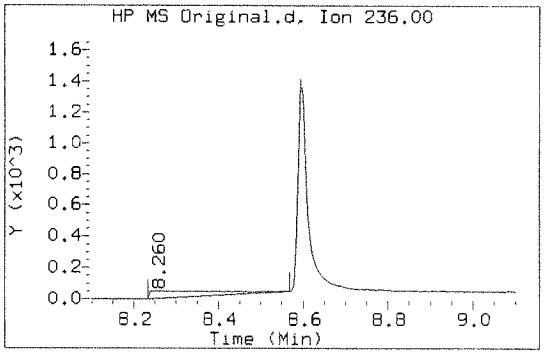
BEFORE
MASS
120
AREA
491
HEIGHT
41
18-Apr-2024
14:16
ALSHS
Server



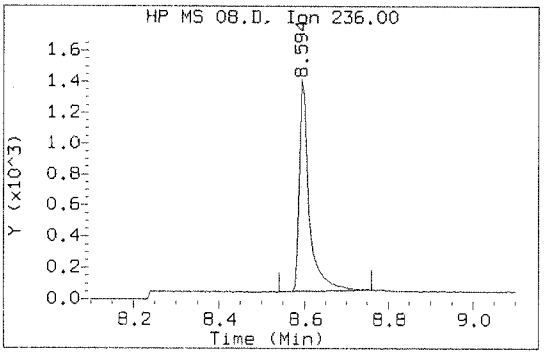
AFTER
MASS
120
AREA
640
HEIGHT
429
28-May-2024
13:05



BEFORE
MASS
236
AREA
459
HEIGHT
45
18-Apr-2024
14:16
ALSHS
Server



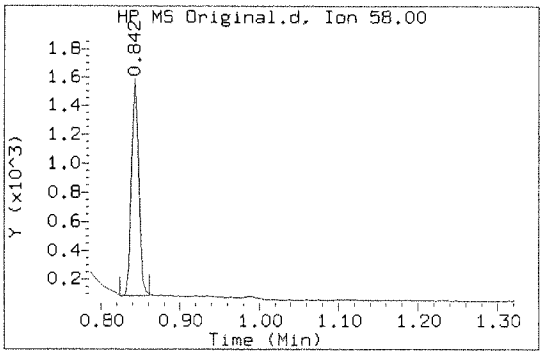
AFTER
MASS
236
AREA
2175
HEIGHT
1364
28-May-2024
13:05



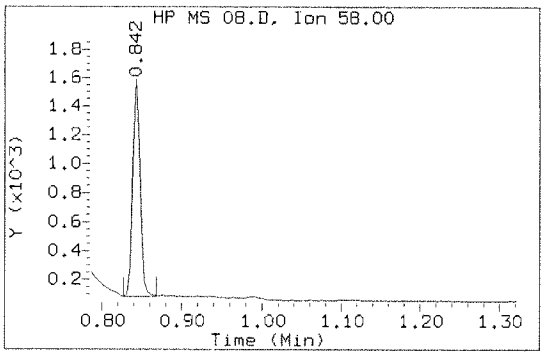
1,4-Dioxane ()

Reason Code:

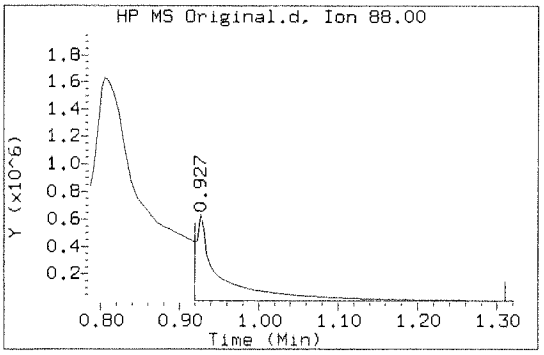
BEFORE
MASS
58
AREA
972
HEIGHT
1502
18-Apr-2024
14:16
ALSHS
Server



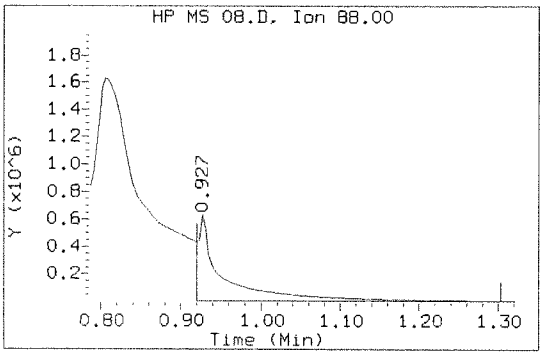
AFTER
MASS
58
AREA
984
HEIGHT
1506
28-May-2024
13:05



BEFORE
MASS
88
AREA
1391687
HEIGHT
630804
18-Apr-2024
14:16
ALSHS
Server



AFTER
MASS
88
AREA
1385982
HEIGHT
630559
28-May-2024
13:05

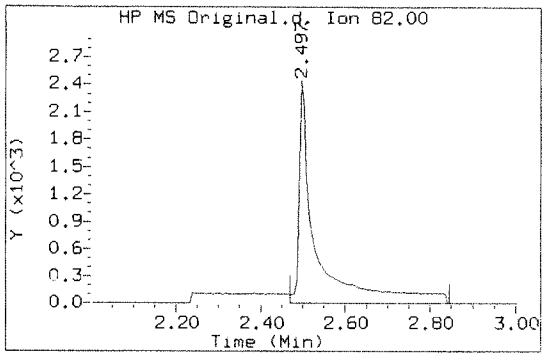


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Inj Date : 18-APR-2024 14:00
InstruID : SV6.i
LabSampID : 14DX-0.15

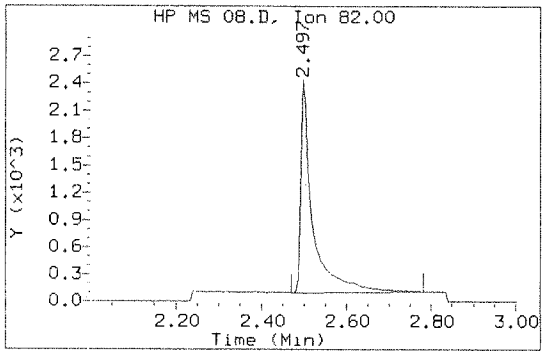
Nitrobenzene-d5 (4165-60-0)

Reason Code:

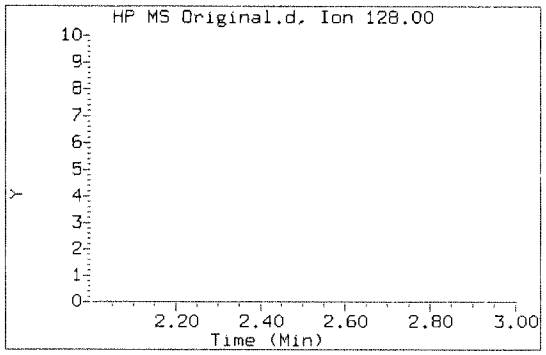
BEFORE
MASS
82
AREA
6726
HEIGHT
2444
18-Apr-2024
14:16
ALSHS
Server



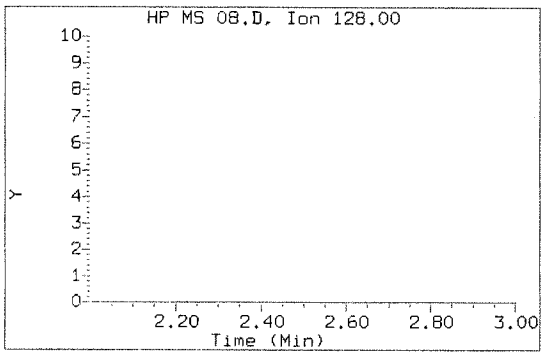
AFTER
MASS
82
AREA
4499
HEIGHT
2346
28-May-2024
13:05



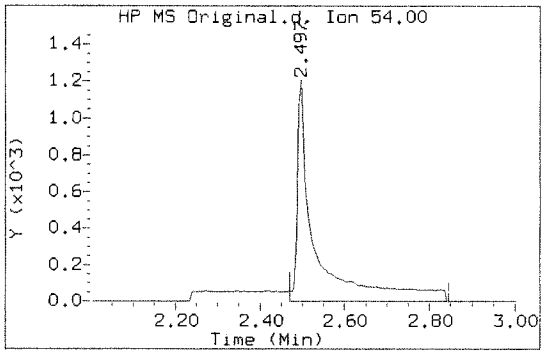
BEFORE
MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
14:16
ALSHS
Server



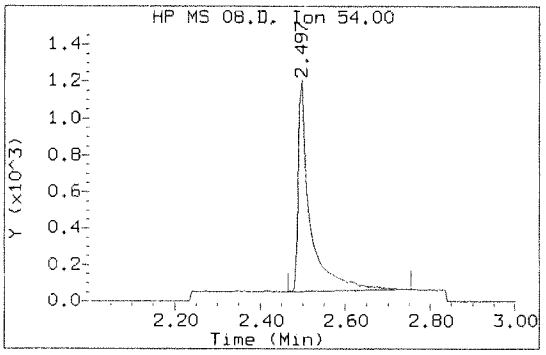
AFTER
MASS
128
AREA
0
HEIGHT
0
28-May-2024
13:05



BEFORE
MASS
54
AREA
3552
HEIGHT
1208
18-Apr-2024
14:16
ALSHS
Server



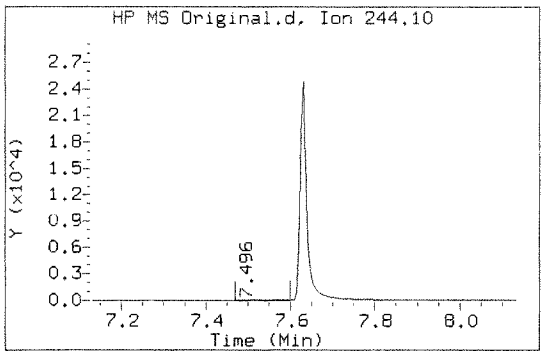
AFTER
MASS
54
AREA
2217
HEIGHT
1153
28-May-2024
13:05



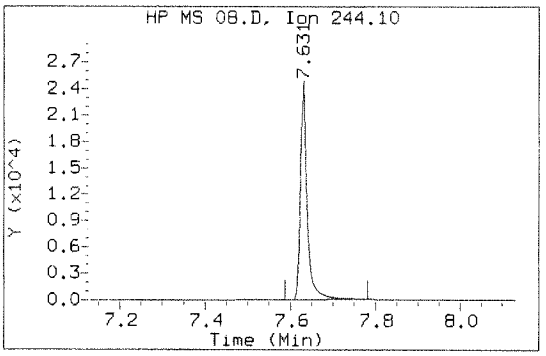
4-Terphenyl-d14 (1718-51-0)

Reason Code:

BEFORE
MASS
244.1
AREA
363
HEIGHT
48
18-Apr-2024
14:16
ALSHS
Server



AFTER
MASS
244.1
AREA
27519
HEIGHT
24648
28-May-2024
13:05

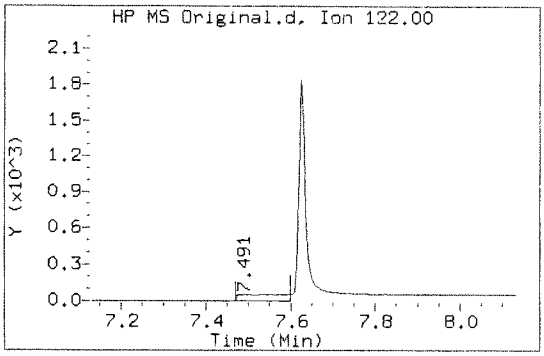


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Inj Date : 18-APR-2024 14:00
InstruID : SV6.i
LabSampID : 14DX-0.15

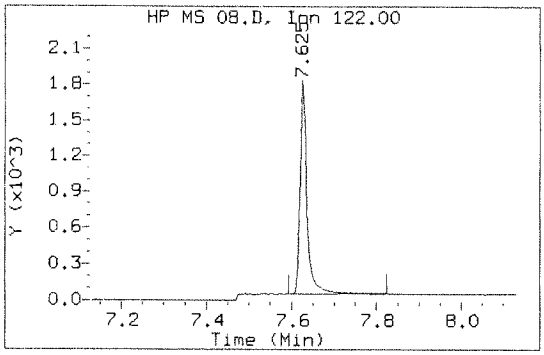
4-Terphenyl-d14 (1718-51-0)

Reason Code:

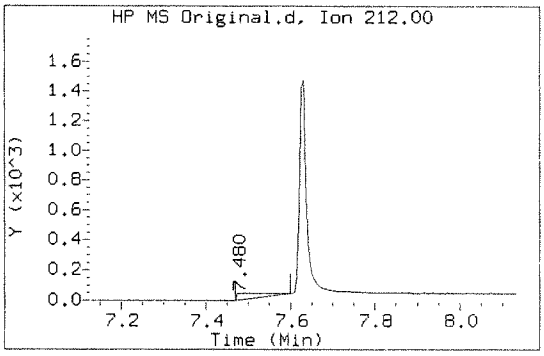
BEFORE
MASS
122
AREA
391
HEIGHT
52
18-Apr-2024
14:16
ALSHS
Server



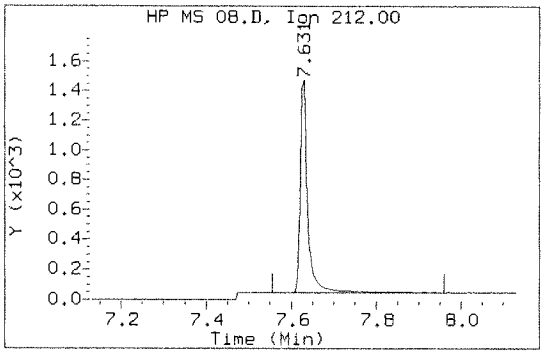
AFTER
MASS
122
AREA
2002
HEIGHT
1786
28-May-2024
13:05



BEFORE
MASS
212
AREA
175
HEIGHT
44
18-Apr-2024
14:16
ALSHS
Server



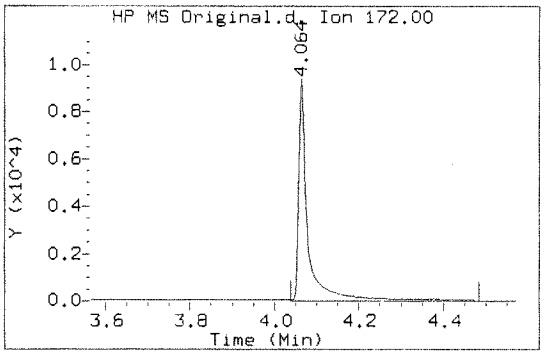
AFTER
MASS
212
AREA
1733
HEIGHT
1429
28-May-2024
13:05



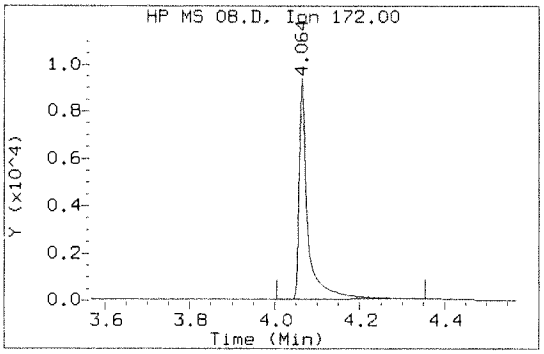
2-Fluorobiphenyl (321-60-8)

Reason Code:

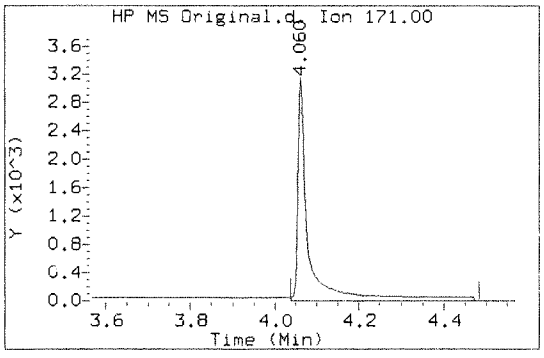
BEFORE
MASS
172
AREA
14843
HEIGHT
9413
18-Apr-2024
14:16
ALSHS
Server



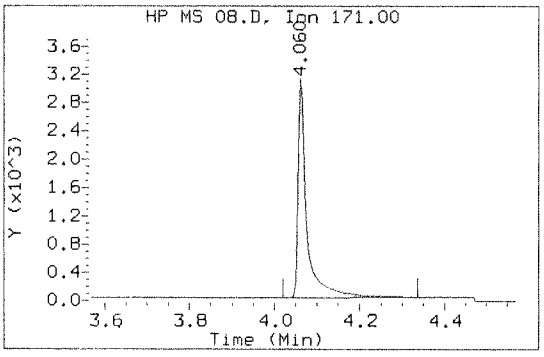
AFTER
MASS
172
AREA
13067
HEIGHT
9360
28-May-2024
13:05



BEFORE
MASS
171
AREA
5828
HEIGHT
3145
18-Apr-2024
14:16
ALSHS
Server



AFTER
MASS
171
AREA
4411
HEIGHT
3096
28-May-2024
13:05



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D Page 1
Report Date: 17-Jul-2024 16:41

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Lab Smp Id: 14DX-0.20
Inj Date : 18-APR-2024 14:18
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.20
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 14:18 Cal File: 09.D
Als bottle: 9 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)	
* 20 1,4-Dichlorobenzene-d4	152	2.094	2.089	(1.000)	2896	0.10000		(aM)
* 45 Naphthalene-d8	136	3.076	3.076	(1.000)	9147	0.10000		(M)
$ 33 Nitrobenzene-d5	82	2.496	2.502	(0.812)	5927	0.20000	0.2158	(AM)
* 86 Acenaphthene-d10	164	4.665	4.671	(1.000)	5593	0.10000		(M)
$ 69 2-Fluorobiphenyl	172	4.064	4.067	(0.871)	17331	0.20000	0.2027	(AM)
* 126 Phenanthrene-d10	188	6.065	6.065	(1.000)	10775	0.10000		(M)
* 182 Chrysene-d12	240	8.593	8.599	(1.000)	9063	0.10000		(M)
$ 158 4-Terphenyl-d14	244	7.630	7.630	(0.888)	39718	0.20000	0.2151	(AM)
* 198 Perylene-d12	264	10.184	10.189	(1.000)	8962	0.10000		(M)
1 1,4-Dioxane	58	0.845	0.820	(0.404)	1268	0.20000	0.2044	(QM)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D

Date : 18-APR-2024 14:18

Client ID:

Instrument: SV6.i

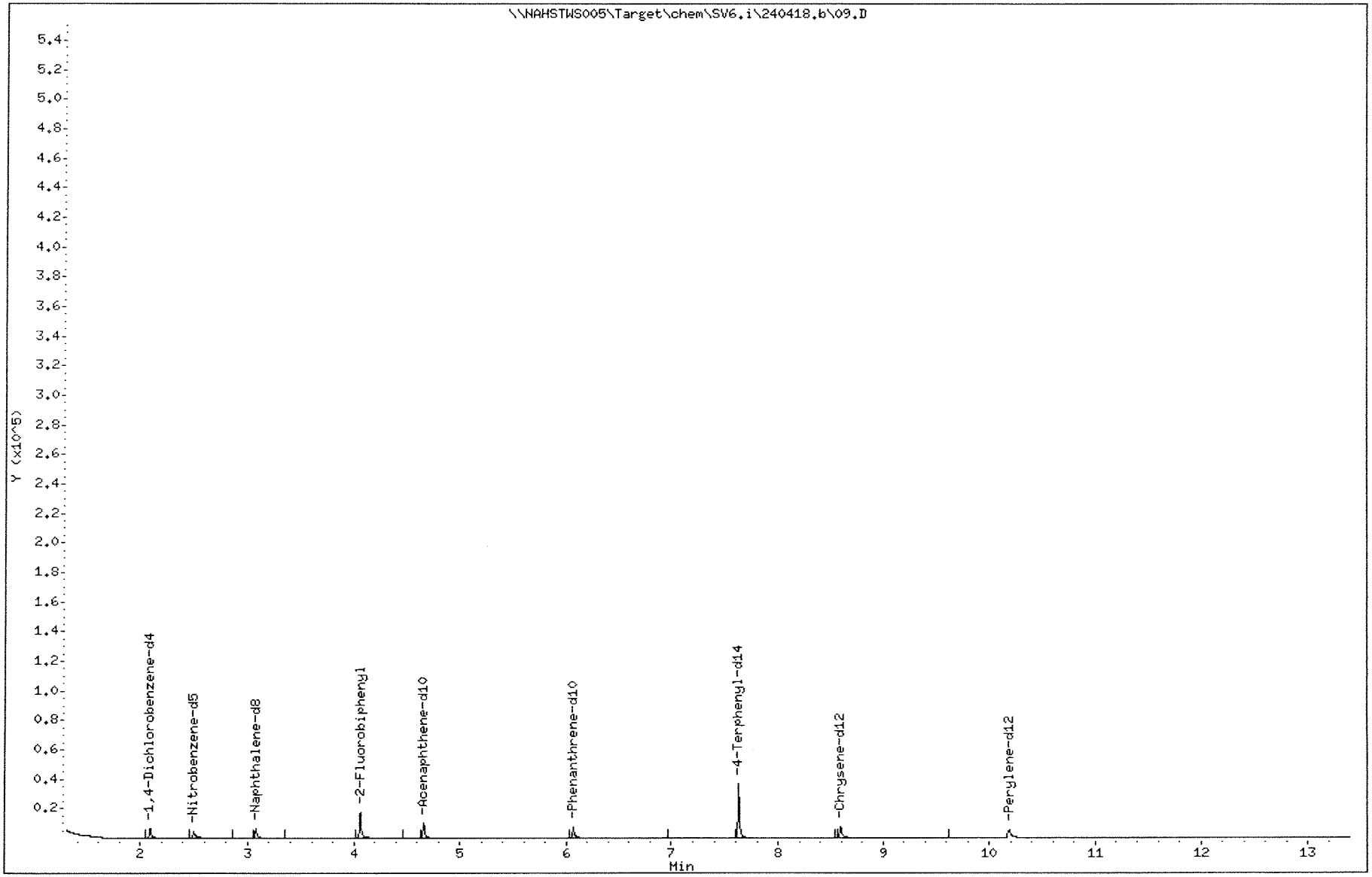
Sample Info: 14DX-0.20

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

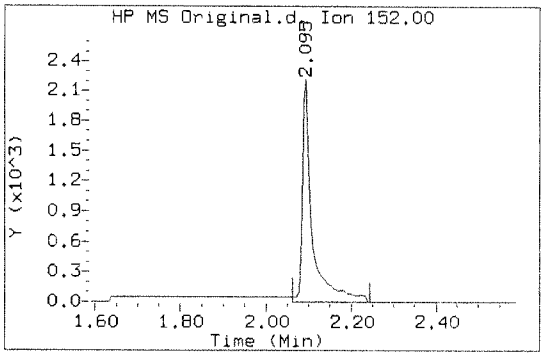


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Inj Date : 18-APR-2024 14:18
InstruID : SV6.i
LabSampID : 14DX-0.20

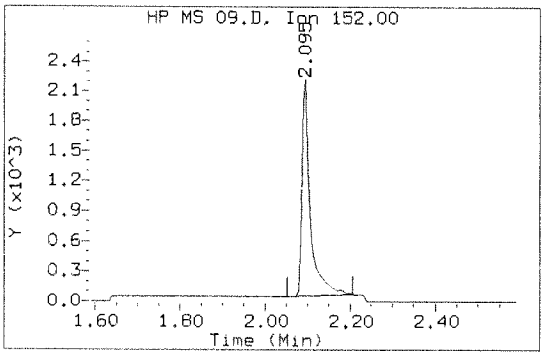
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

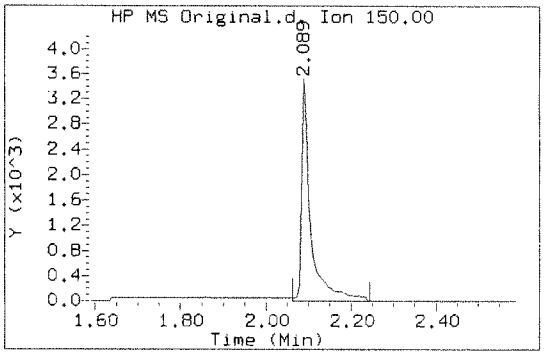
BEFORE
MASS 152
AREA 3565
HEIGHT 2222
18-Apr-2024 14:31
ALSHS Server



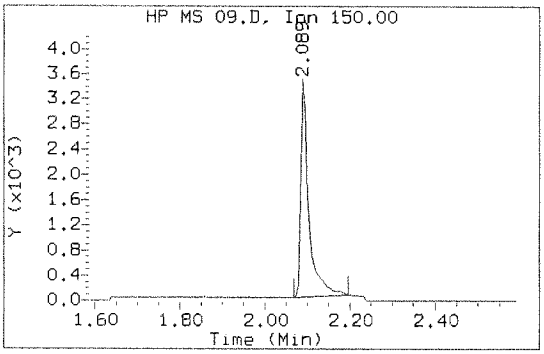
AFTER
MASS 152
AREA 2896
HEIGHT 2165
23-May-2024 08:54



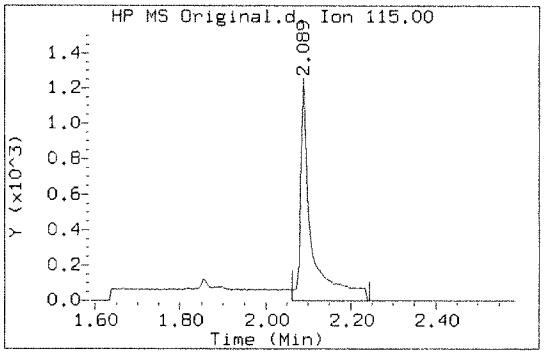
BEFORE
MASS 150
AREA 5268
HEIGHT 3527
18-Apr-2024 14:31
ALSHS Server



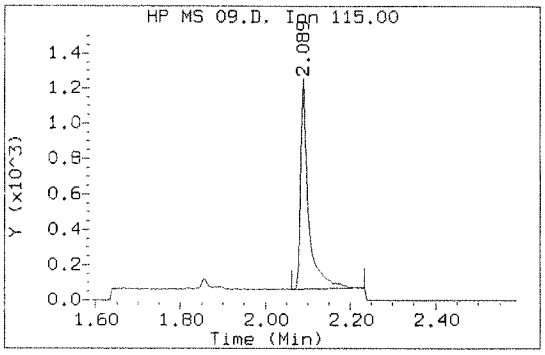
AFTER
MASS 150
AREA 4498
HEIGHT 3469
23-May-2024 08:54



BEFORE
MASS 115
AREA 2227
HEIGHT 1257
18-Apr-2024 14:31
ALSHS Server



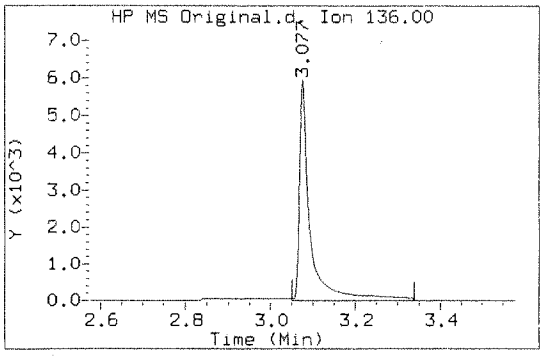
AFTER
MASS 115
AREA 1525
HEIGHT 1194
23-May-2024 08:54



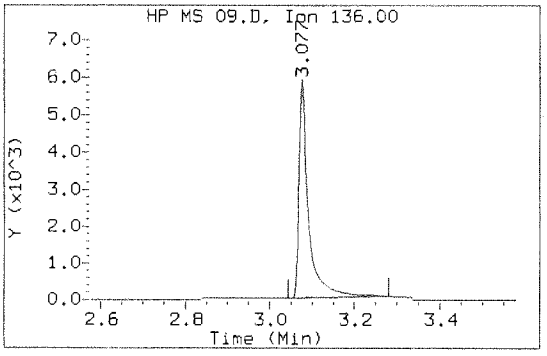
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS 136
AREA 10466
HEIGHT 5947
18-Apr-2024 14:31
ALSHS Server



AFTER
MASS 136
AREA 9147
HEIGHT 5889
23-May-2024 08:54

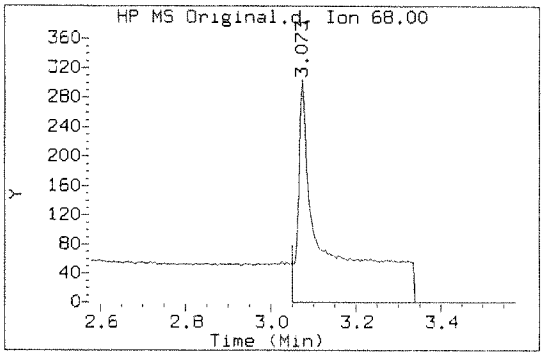


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Inj Date : 18-APR-2024 14:18
InstruID : SV6.i
LabSampID : 14DX-0.20

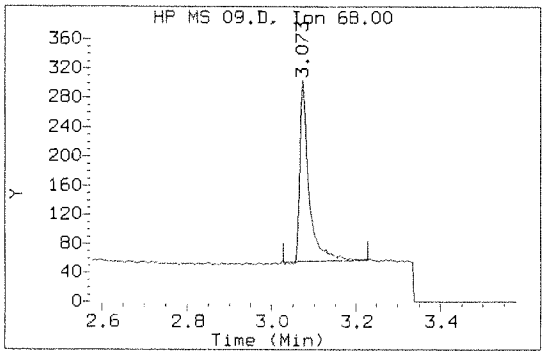
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
68
AREA
1344
HEIGHT
304
18-Apr-2024
14:31
ALSHS
Server



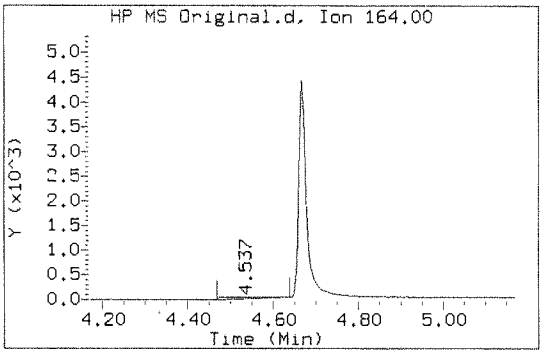
AFTER
MASS
68
AREA
362
HEIGHT
248
23-May-2024
08:54



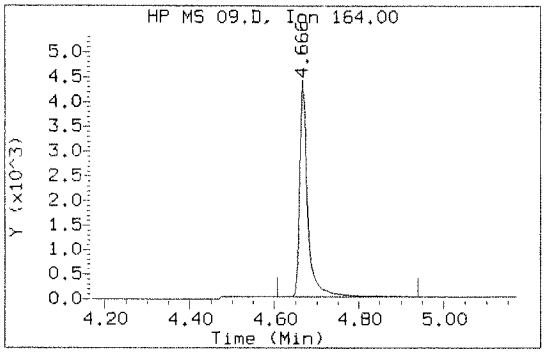
Acenaphthene-d10 (15067-26-2)

Reason Code:

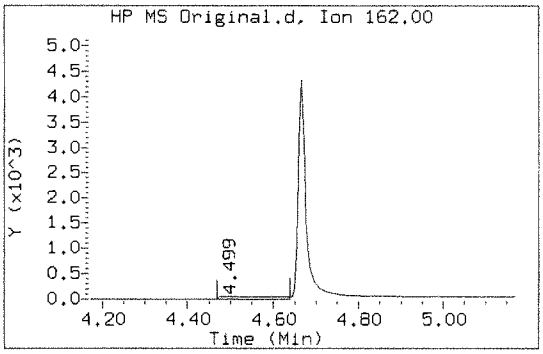
BEFORE
MASS
164
AREA
238
HEIGHT
29
18-Apr-2024
14:31
ALSHS
Server



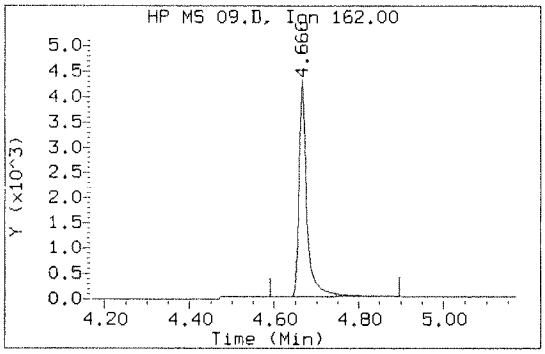
AFTER
MASS
164
AREA
5593
HEIGHT
4390
23-May-2024
08:54



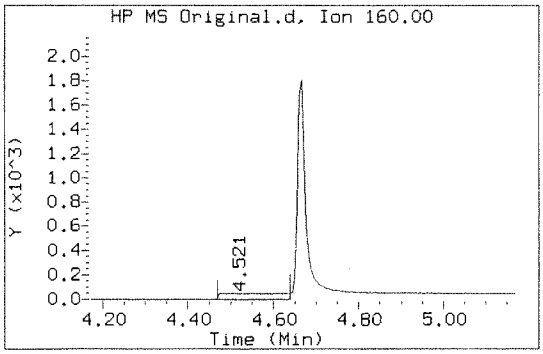
BEFORE
MASS
162
AREA
503
HEIGHT
51
18-Apr-2024
14:31
ALSHS
Server



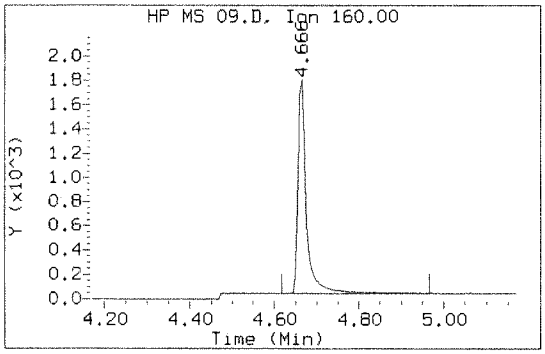
AFTER
MASS
162
AREA
5314
HEIGHT
4281
23-May-2024
08:54



BEFORE
MASS
160
AREA
485
HEIGHT
49
18-Apr-2024
14:31
ALSHS
Server



AFTER
MASS
160
AREA
2365
HEIGHT
1761
23-May-2024
08:54

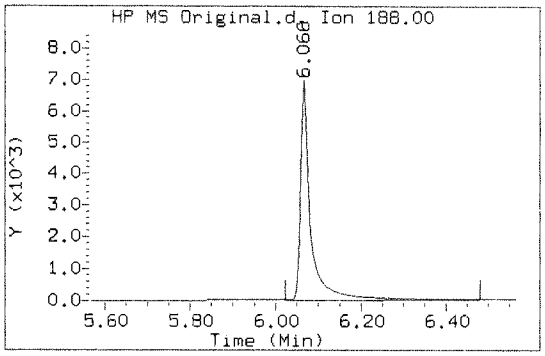


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Inj Date : 18-APR-2024 14:18
InstruID : SV6.i
LabSampID : 14DX-0.20

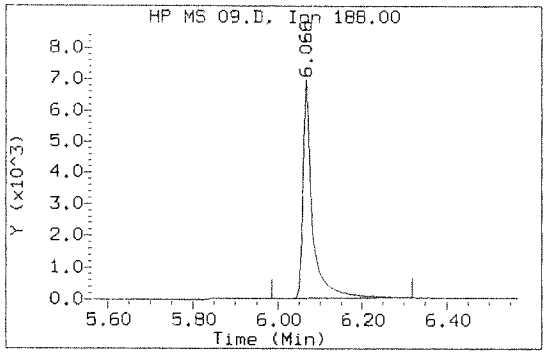
Phenanthrene-d10 (1517-22-2)

Reason Code:

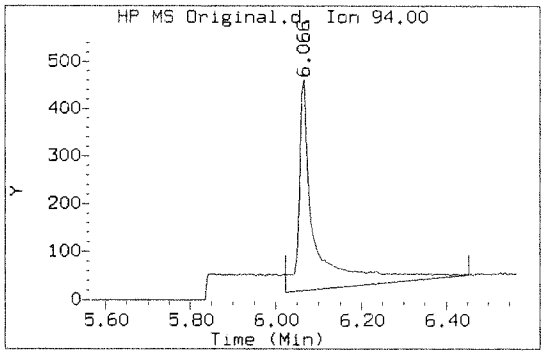
BEFORE
MASS
188
AREA
11617
HEIGHT
6980
18-Apr-2024
14:31
ALSHS
Server



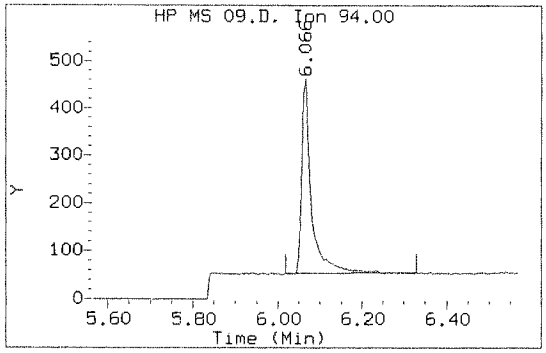
AFTER
MASS
188
AREA
10775
HEIGHT
6945
23-May-2024
08:54



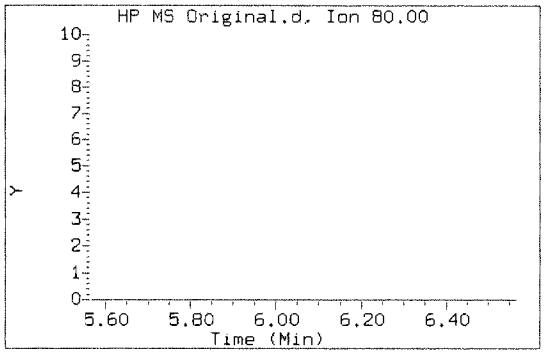
BEFORE
MASS
94
AREA
1175
HEIGHT
443
18-Apr-2024
14:31
ALSHS
Server



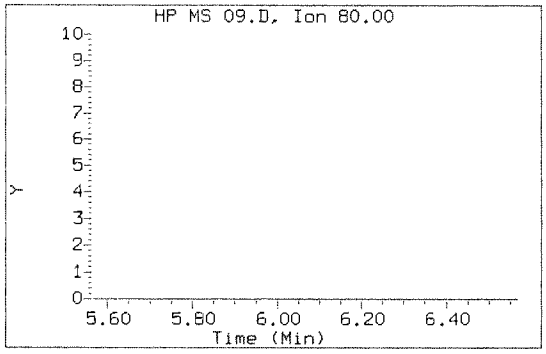
AFTER
MASS
94
AREA
655
HEIGHT
409
23-May-2024
08:54



BEFORE
MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
14:31
ALSHS
Server



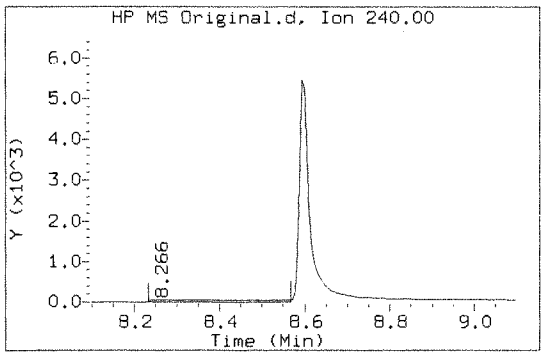
AFTER
MASS
80
AREA
0
HEIGHT
0
23-May-2024
08:54



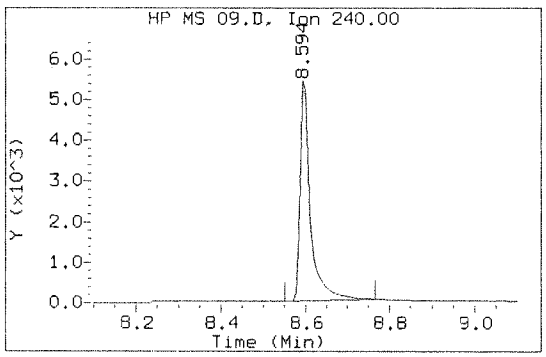
Chrysene-d12 (1719-03-5)

Reason Code:

BEFORE
MASS
240
AREA
966
HEIGHT
50
18-Apr-2024
14:31
ALSHS
Server



AFTER
MASS
240
AREA
9063
HEIGHT
5411
23-May-2024
08:54

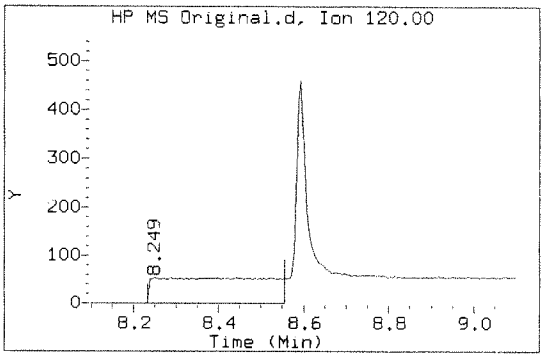


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Inj Date : 18-APR-2024 14:18
InstruID : SV6.i
LabSampID : 14DX-0.20

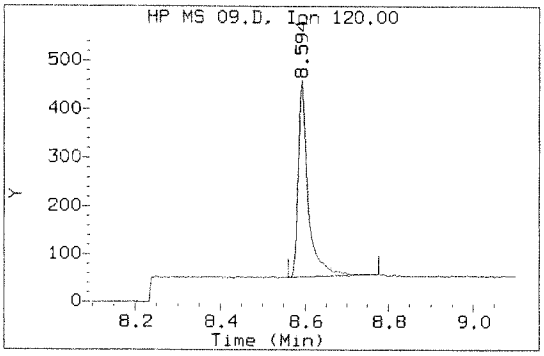
Chrysene-d12 (1719-03-5)

Reason Code:

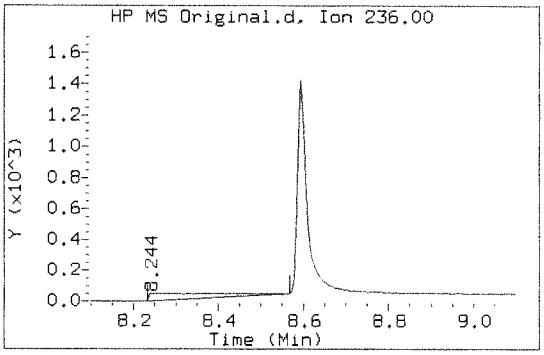
BEFORE
MASS
120
AREA
1000
HEIGHT
53
18-Apr-2024
14:31
ALSHS
Server



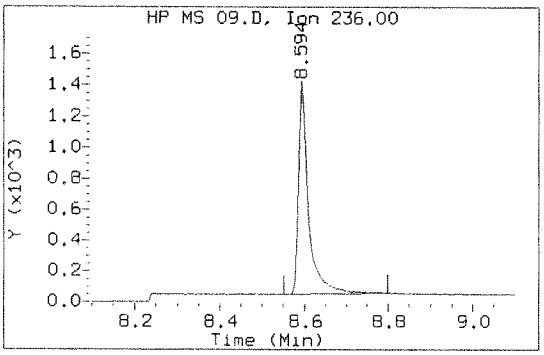
AFTER
MASS
120
AREA
651
HEIGHT
406
23-May-2024
08:54



BEFORE
MASS
236
AREA
466
HEIGHT
47
18-Apr-2024
14:31
ALSHS
Server



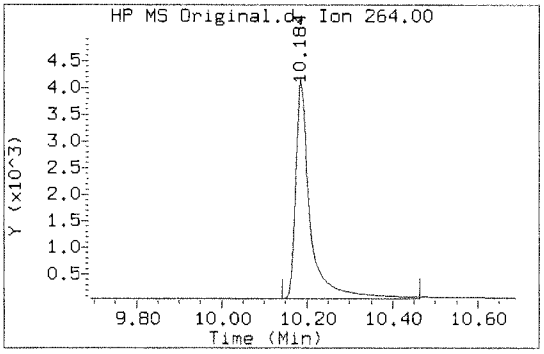
AFTER
MASS
236
AREA
2242
HEIGHT
1376
23-May-2024
08:54



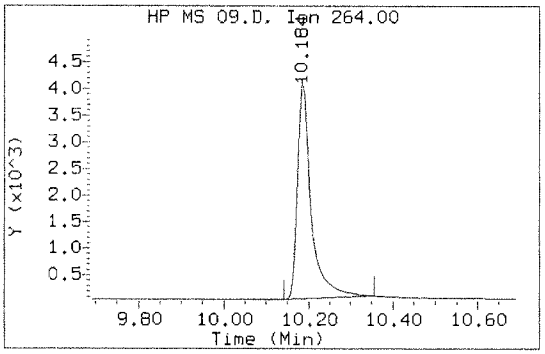
Perylene-d12 (1520-96-3)

Reason Code:

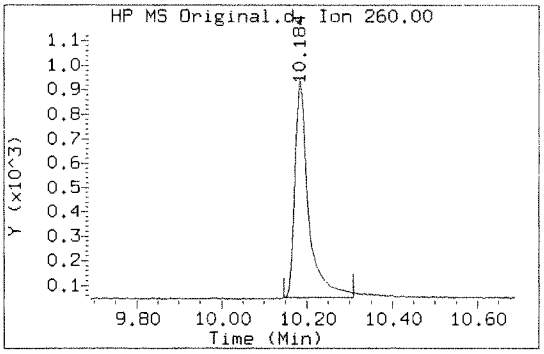
BEFORE
MASS
264
AREA
9658
HEIGHT
4112
18-Apr-2024
14:31
ALSHS
Server



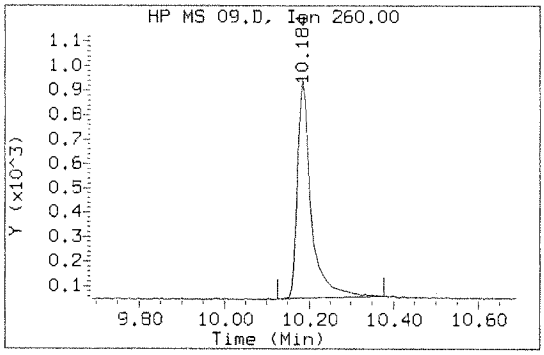
AFTER
MASS
264
AREA
8962
HEIGHT
4099
23-May-2024
08:54



BEFORE
MASS
260
AREA
1972
HEIGHT
894
18-Apr-2024
14:31
ALSHS
Server



AFTER
MASS
260
AREA
1963
HEIGHT
893
23-May-2024
08:54



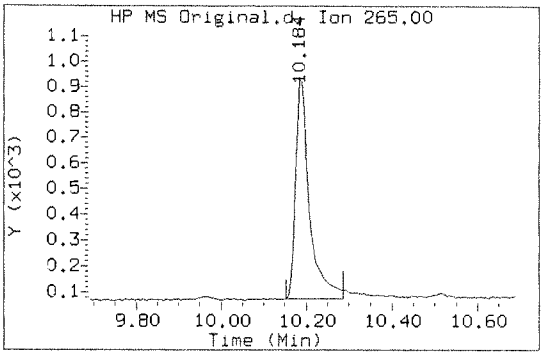
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Inj Date : 18-APR-2024 14:18
InstruID : SV6.i
LabSampID : 14DX-0.20

Perylene-d12 (1520-96-3)

Reason Code:

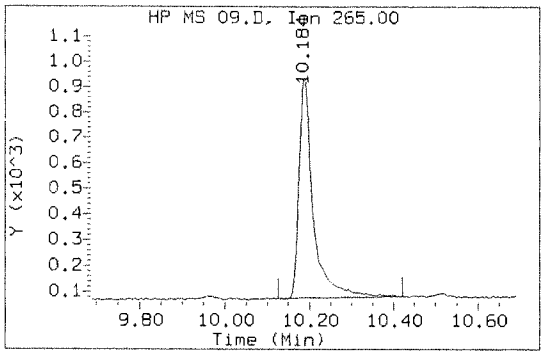
BEFORE

MASS
265
AREA
1909
HEIGHT
854
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
265
AREA
1984
HEIGHT
853
23-May-2024
08:54

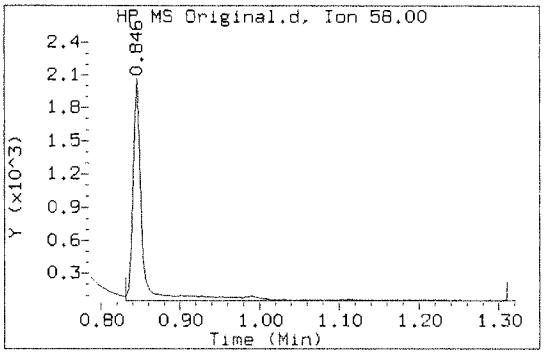


1,4-Dioxane ()

Reason Code:

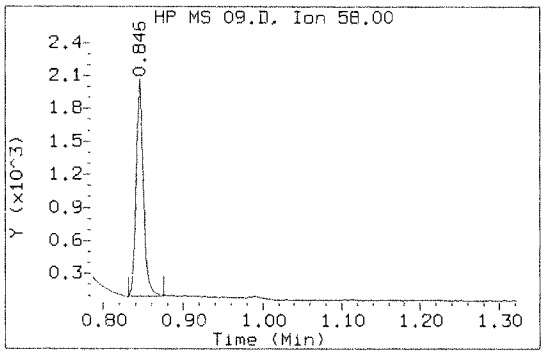
BEFORE

MASS
58
AREA
1746
HEIGHT
2018
18-Apr-2024
14:31
ALSHS
Server



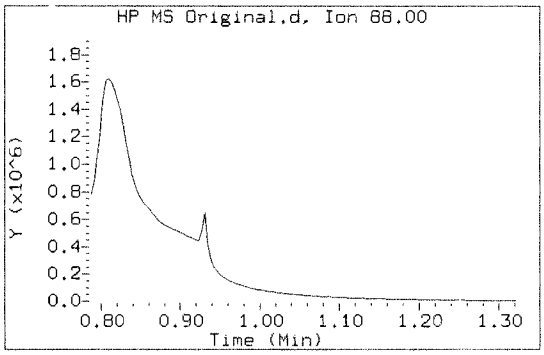
AFTER

MASS
58
AREA
1268
HEIGHT
1979
23-May-2024
08:54



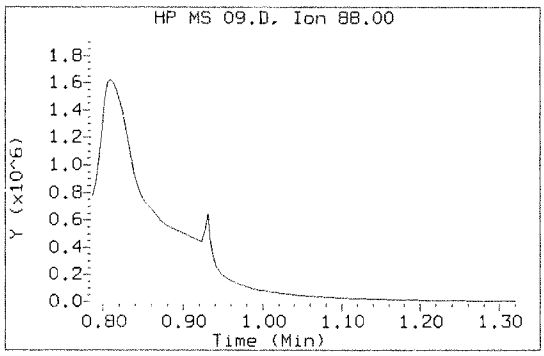
BEFORE

MASS
88
AREA
0
HEIGHT
0
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
88
AREA
0
HEIGHT
0
23-May-2024
08:54

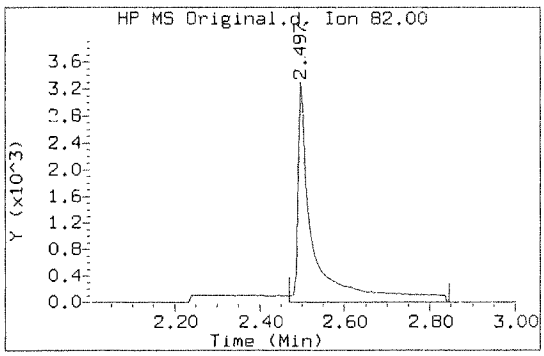


Nitrobenzene-d5 (4165-60-0)

Reason Code:

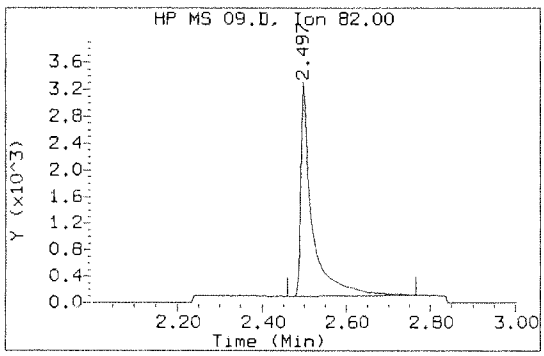
BEFORE

MASS
82
AREA
8325
HEIGHT
3305
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
82
AREA
5927
HEIGHT
3202
23-May-2024
08:54

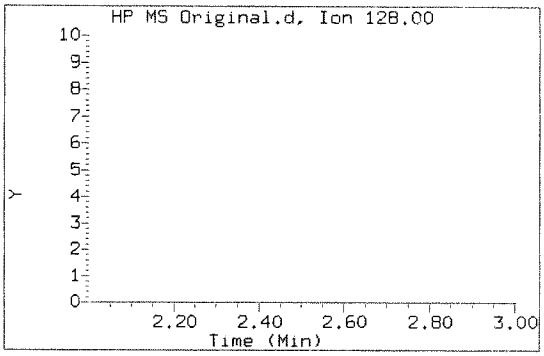


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Inj Date : 18-APR-2024 14:18
InstruID : SV6.i
LabSampID : 14DX-0.20

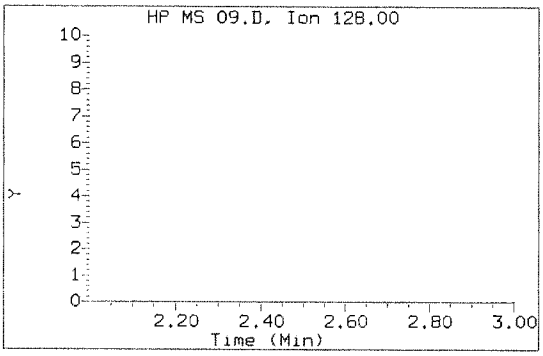
Nitrobenzene-d5 (4165-60-0)

Reason Code:

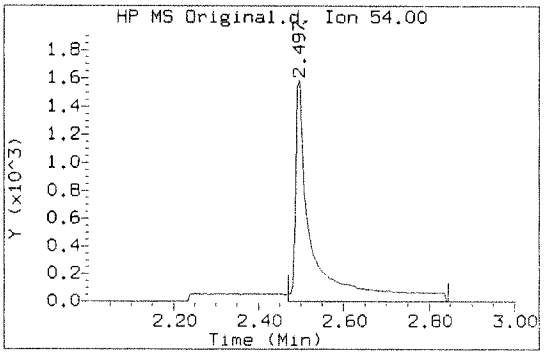
BEFORE
MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
14:31
ALSHS
Server



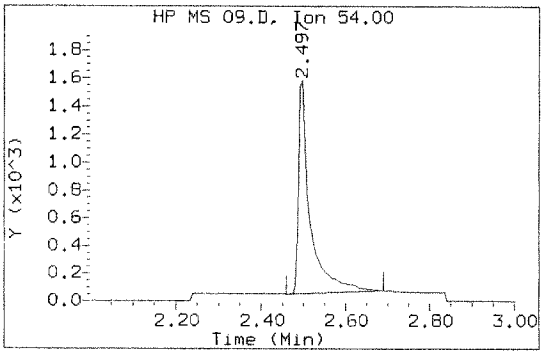
AFTER
MASS
128
AREA
0
HEIGHT
0
23-May-2024
08:54



BEFORE
MASS
54
AREA
4354
HEIGHT
1586
18-Apr-2024
14:31
ALSHS
Server



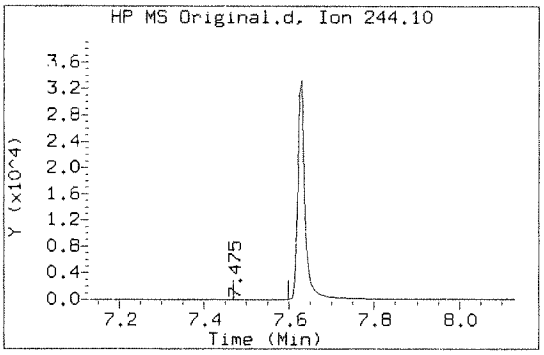
AFTER
MASS
54
AREA
2914
HEIGHT
1530
23-May-2024
08:54



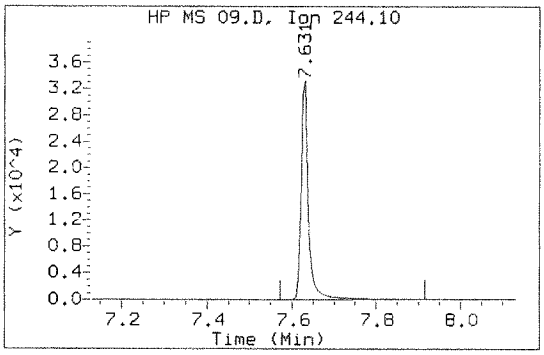
4-Terphenyl-d14 (1718-51-0)

Reason Code:

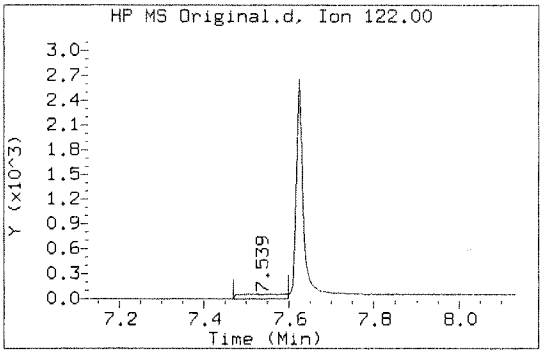
BEFORE
MASS
244.1
AREA
171
HEIGHT
46
18-Apr-2024
14:31
ALSHS
Server



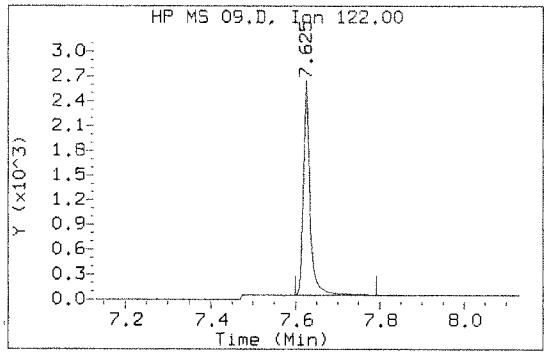
AFTER
MASS
244.1
AREA
39718
HEIGHT
33227
23-May-2024
08:54



BEFORE
MASS
122
AREA
392
HEIGHT
52
18-Apr-2024
14:31
ALSHS
Server



AFTER
MASS
122
AREA
2843
HEIGHT
2606
23-May-2024
08:54



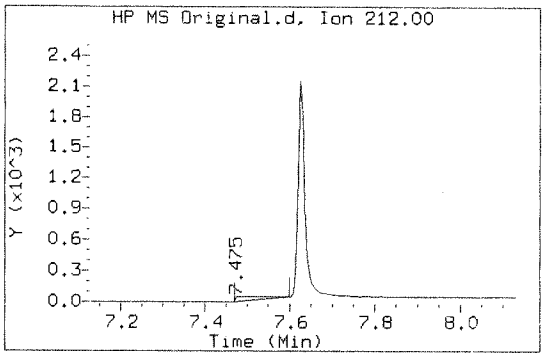
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Inj Date : 18-APR-2024 14:18
InstruID : SV6.i
LabSampID : 14DX-0.20

4-Terphenyl-d14 (1718-51-0)

Reason Code:

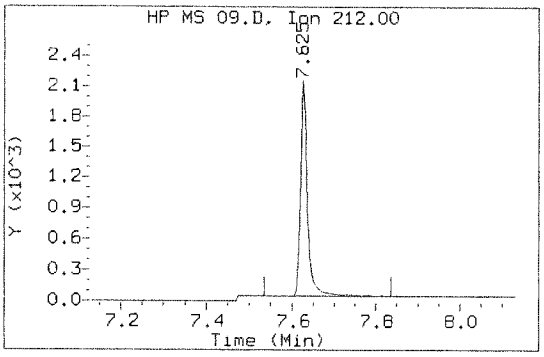
BEFORE

MASS
212
AREA
176
HEIGHT
46
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
212
AREA
2426
HEIGHT
2111
23-May-2024
06:54

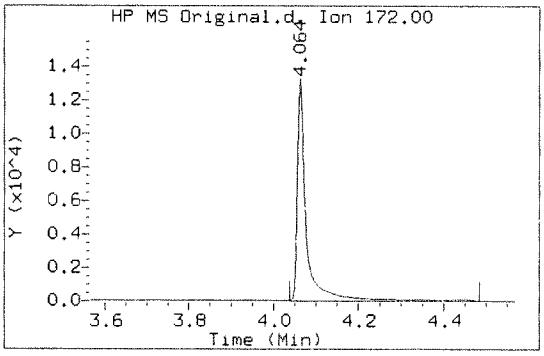


2-Fluorobiphenyl (321-60-8)

Reason Code:

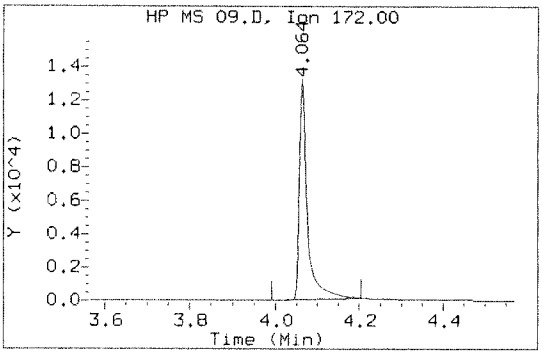
BEFORE

MASS
172
AREA
20172
HEIGHT
13283
18-Apr-2024
14:31
ALSHS
Server



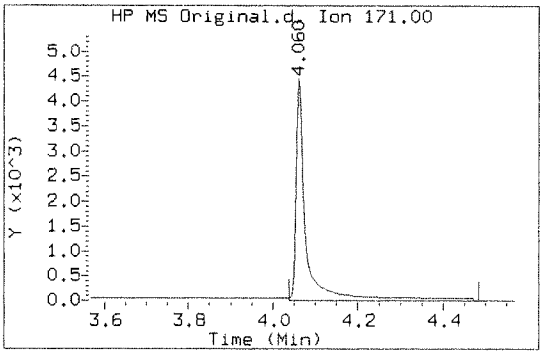
AFTER

MASS
172
AREA
17331
HEIGHT
13194
23-May-2024
08:54



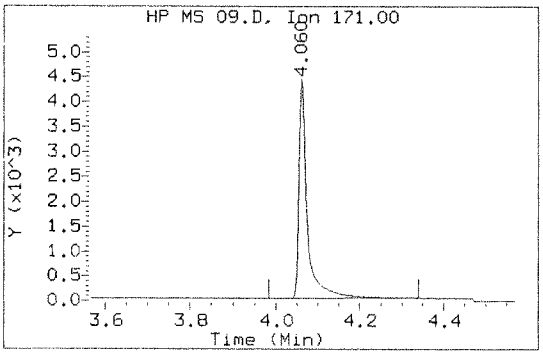
BEFORE

MASS
171
AREA
7647
HEIGHT
4464
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
171
AREA
6174
HEIGHT
4414
23-May-2024
08:54



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D
Lab Smp Id: 14DX-0.50
Inj Date : 18-APR-2024 14:35
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.50
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 10 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	2.089	2.089	(1.000)	2819	0.10000	(aQM)
* 45 Naphthalene-d8	136	3.076	3.076	(1.000)	9772	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.497	2.502	(0.812)	15956	0.50000	0.5439 (AM)
* 86 Acenaphthene-d10	164	4.665	4.671	(1.000)	5911	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.064	4.067	(0.871)	47534	0.50000	0.5260 (AM)
* 126 Phenanthrene-d10	188	6.066	6.065	(1.000)	11325	0.10000	(M)
* 182 Chrysene-d12	240	8.593	8.599	(1.000)	9856	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.630	7.630	(0.888)	111493	0.50000	0.5553 (AM)
* 198 Perylene-d12	264	10.184	10.189	(1.000)	10138	0.10000	
1 1,4-Dioxane	58	0.831	0.820	(0.398)	2813	0.50000	0.4659 (M)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D

Date : 18-APR-2024 14:35

Client ID:

Sample Info: 14DX-0.50

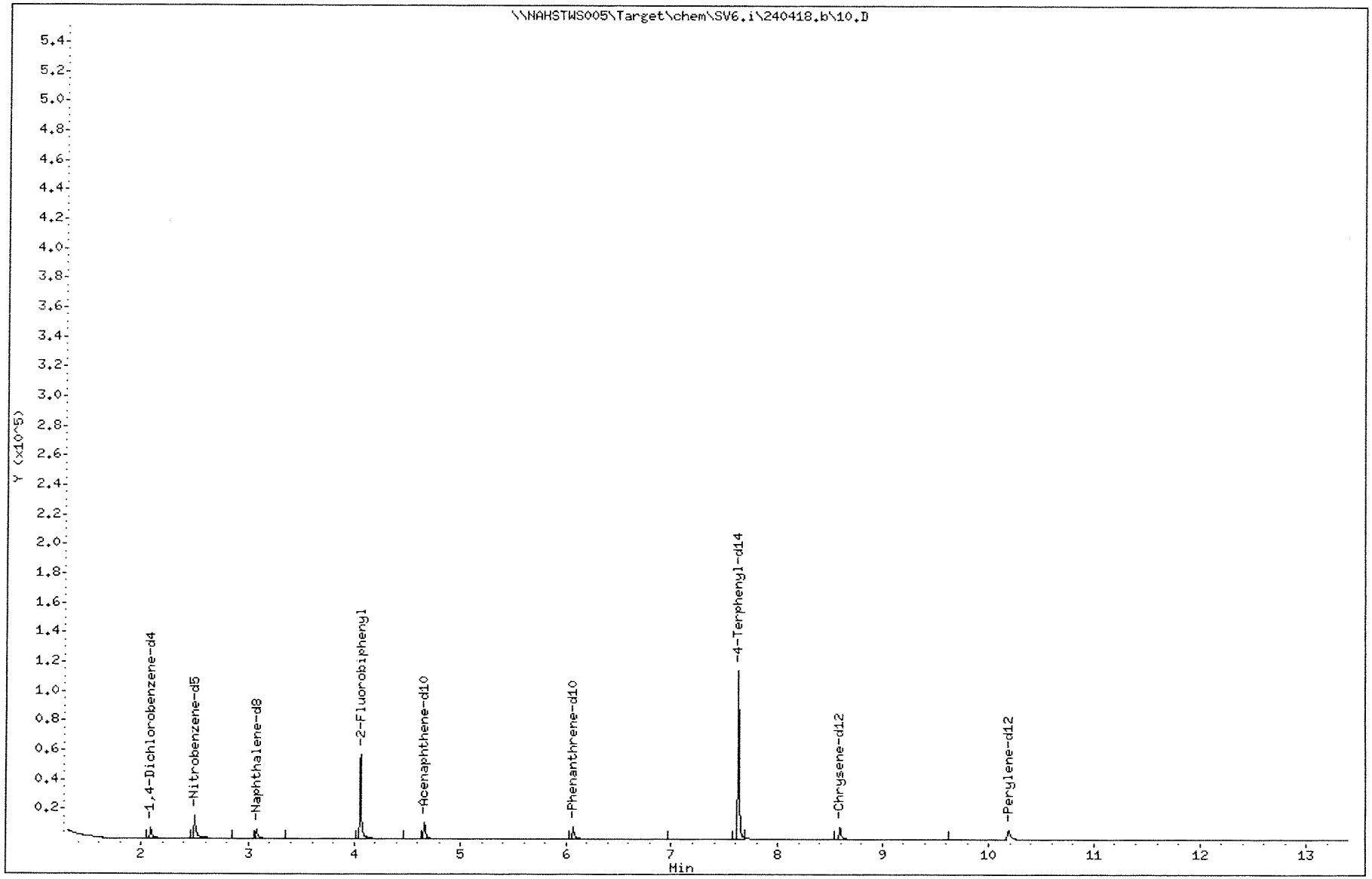
Purge Volume: 1000.0

Column phase: RTX-5SIL MS

Instrument: SV6.i

Operator: LG

Column diameter: 0.28

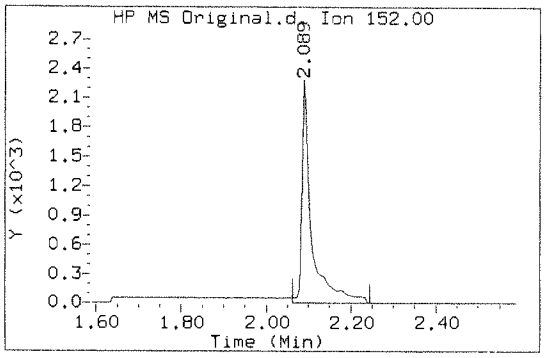


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D
Inj Date : 18-APR-2024 14:35
InstruID : SV6.i
LabSampID : 14DX-0.50

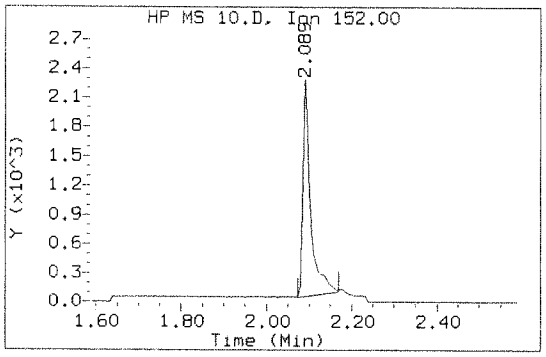
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

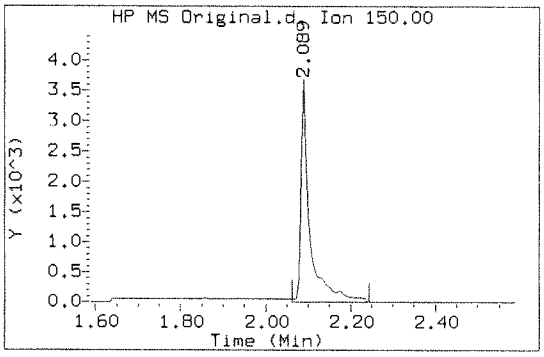
BEFORE
MASS
152
AREA
3637
HEIGHT
2284
18-Apr-2024
14:51
ALSHS
Server



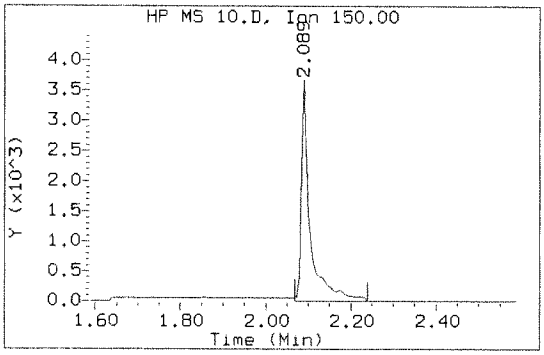
AFTER
MASS
152
AREA
2819
HEIGHT
2227
28-May-2024
13:05



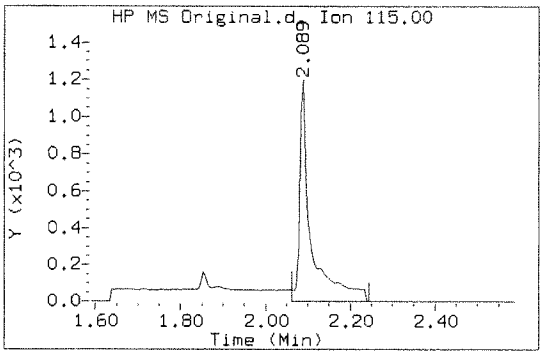
BEFORE
MASS
150
AREA
5370
HEIGHT
3682
18-Apr-2024
14:51
ALSHS
Server



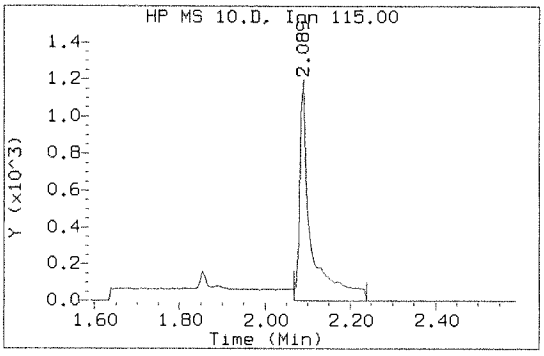
AFTER
MASS
150
AREA
5355
HEIGHT
3682
28-May-2024
13:05



BEFORE
MASS
115
AREA
2255
HEIGHT
1200
18-Apr-2024
14:51
ALSHS
Server



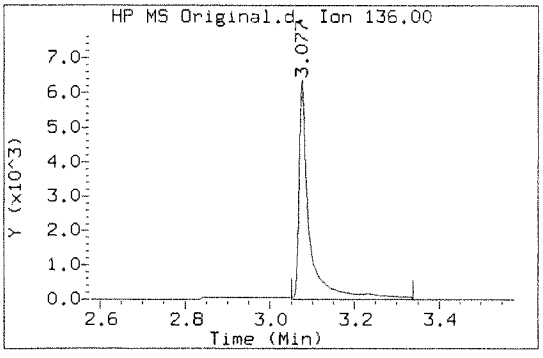
AFTER
MASS
115
AREA
2236
HEIGHT
1200
28-May-2024
13:05



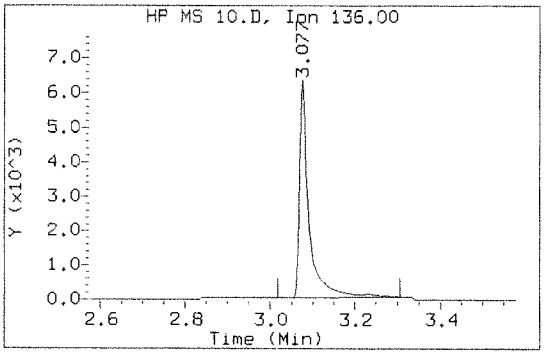
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
10944
HEIGHT
6372
18-Apr-2024
14:51
ALSHS
Server



AFTER
MASS
136
AREA
9772
HEIGHT
6315
28-May-2024
13:05

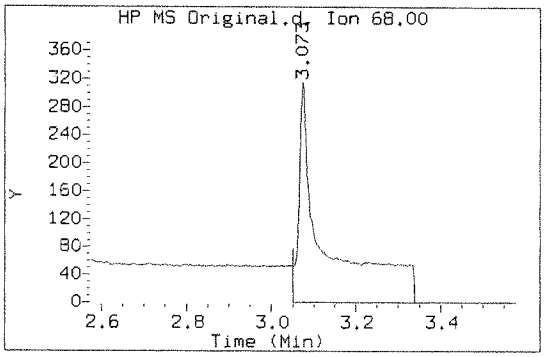


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D
Inj Date : 18-APR-2024 14:35
InstruID : SV6.i
LabSampID : 14DX-0.50

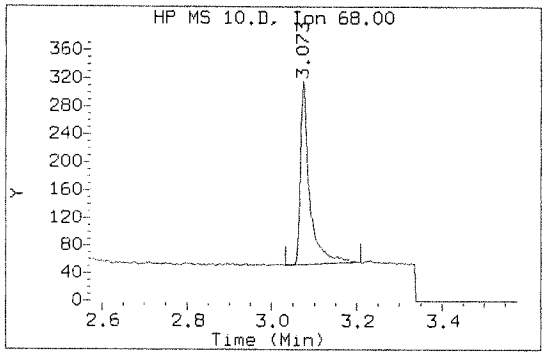
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
68
AREA
1337
HEIGHT
316
18-Apr-2024
14:51
ALSHS
Server



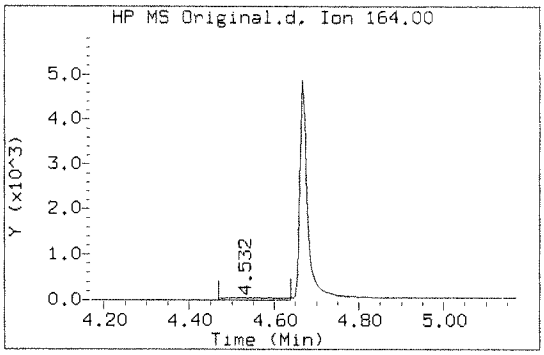
AFTER
MASS
68
AREA
385
HEIGHT
262
28-May-2024
13:05



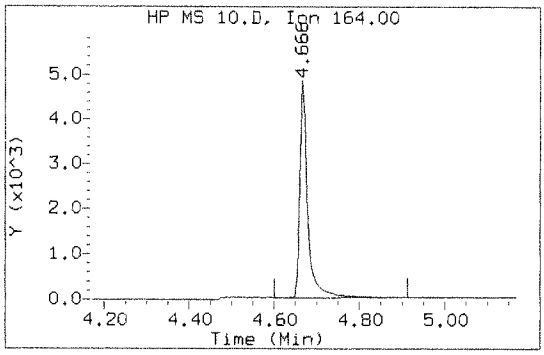
Acenaphthene-d10 (15067-26-2)

Reason Code:

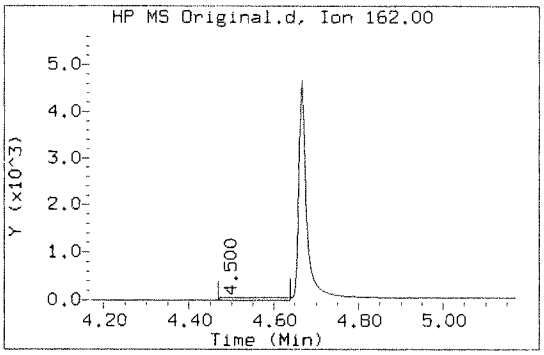
BEFORE
MASS
164
AREA
504
HEIGHT
52
18-Apr-2024
14:51
ALSHS
Server



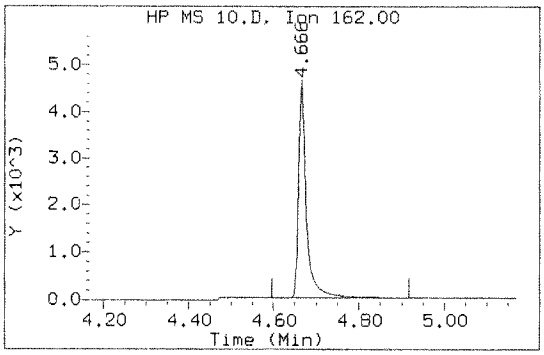
AFTER
MASS
164
AREA
5911
HEIGHT
4828
28-May-2024
13:05



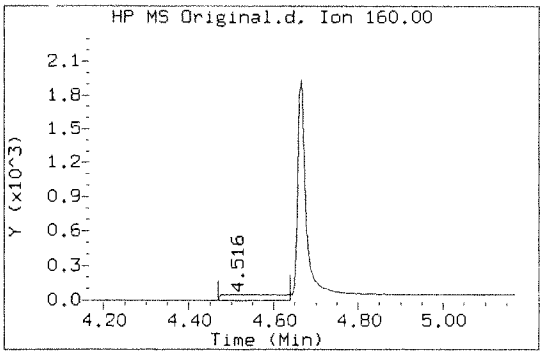
BEFORE
MASS
162
AREA
499
HEIGHT
52
18-Apr-2024
14:51
ALSHS
Server



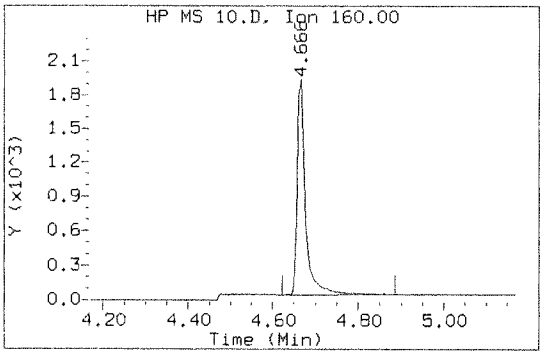
AFTER
MASS
162
AREA
5684
HEIGHT
4637
28-May-2024
13:05



BEFORE
MASS
160
AREA
487
HEIGHT
49
18-Apr-2024
14:51
ALSHS
Server



AFTER
MASS
160
AREA
2489
HEIGHT
1895
28-May-2024
13:05

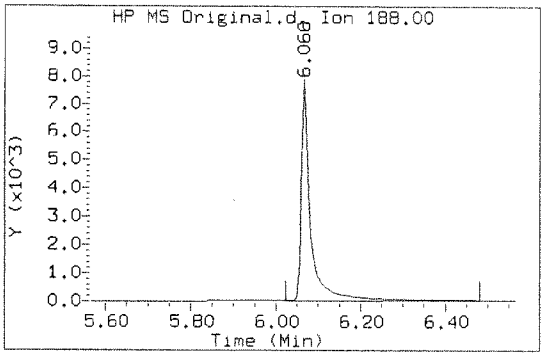


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D
Inj Date : 18-APR-2024 14:35
InstruID : SV6.i
LabSampID : 14DX-0.50

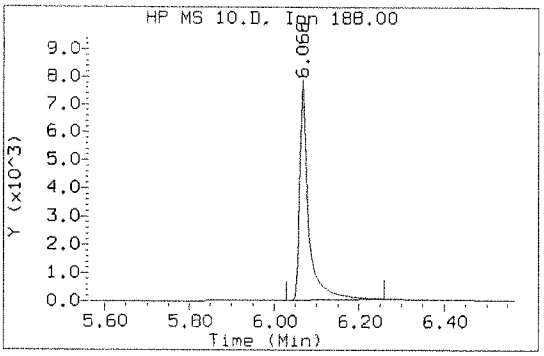
Phenanthrene-d10 (1517-22-2)

Reason Code:

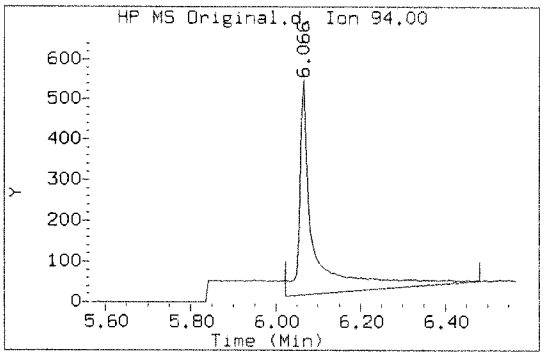
BEFORE
MASS
188
AREA
12429
HEIGHT
7885
18-Apr-2024
14:51
ALSHS
Server



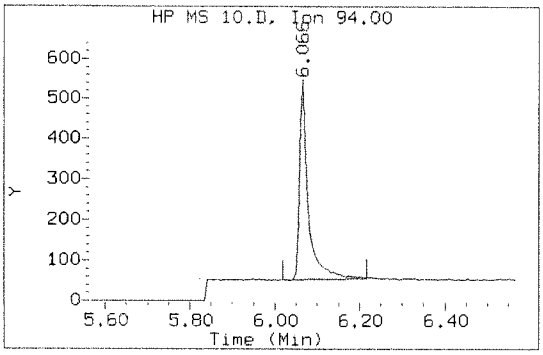
AFTER
MASS
188
AREA
11325
HEIGHT
7848
28-May-2024
13:05



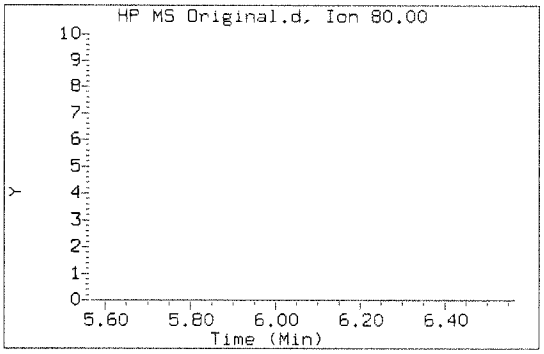
BEFORE
MASS
94
AREA
1281
HEIGHT
530
18-Apr-2024
14:51
ALSHS
Server



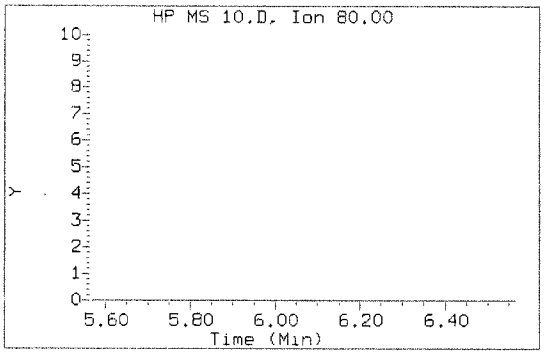
AFTER
MASS
94
AREA
704
HEIGHT
496
28-May-2024
13:05



BEFORE
MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
14:51
ALSHS
Server



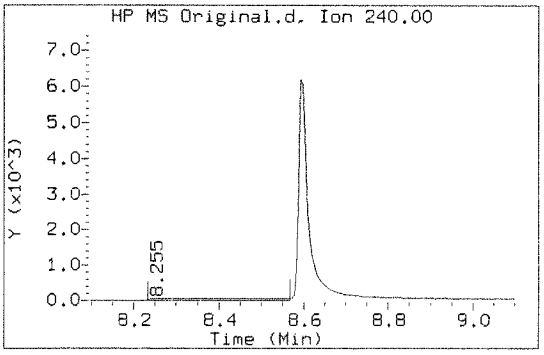
AFTER
MASS
80
AREA
0
HEIGHT
0
28-May-2024
13:05



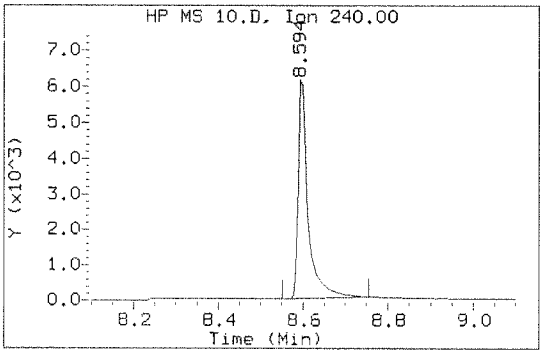
Chrysene-d12 (1719-03-5)

Reason Code:

BEFORE
MASS
240
AREA
983
HEIGHT
51
18-Apr-2024
14:51
ALSHS
Server



AFTER
MASS
240
AREA
9856
HEIGHT
6137
28-May-2024
13:05

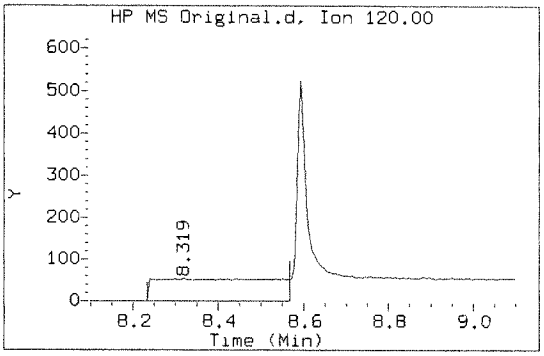


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D
Inj Date : 18-APR-2024 14:35
InstruID : SV6.i
LabSampID : 14DX-0.50

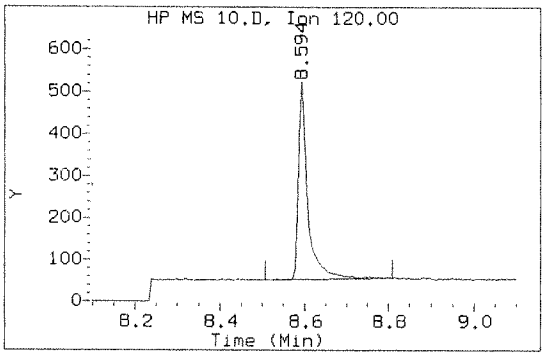
Chrysene-d12 (1719-03-5)

Reason Code:

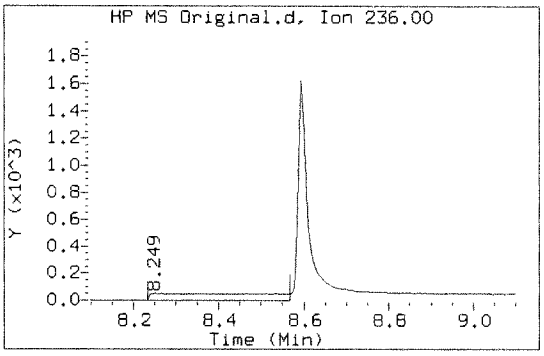
BEFORE
MASS
120
AREA
1034
HEIGHT
54
18-Apr-2024
14:51
ALSHS
Server



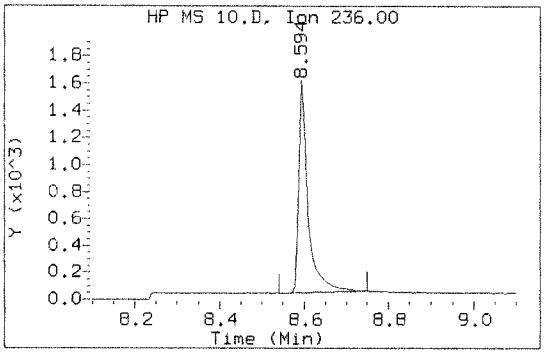
AFTER
MASS
120
AREA
718
HEIGHT
470
28-May-2024
13:05



BEFORE
MASS
236
AREA
972
HEIGHT
50
18-Apr-2024
14:51
ALSHS
Server



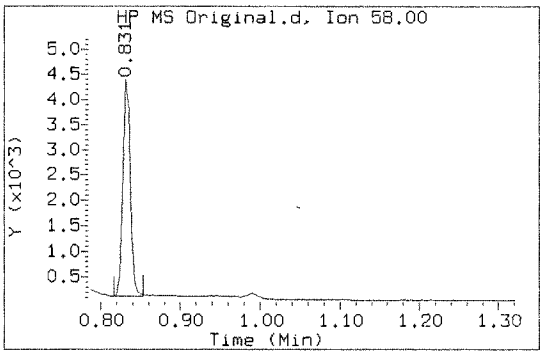
AFTER
MASS
236
AREA
2369
HEIGHT
1570
28-May-2024
13:05



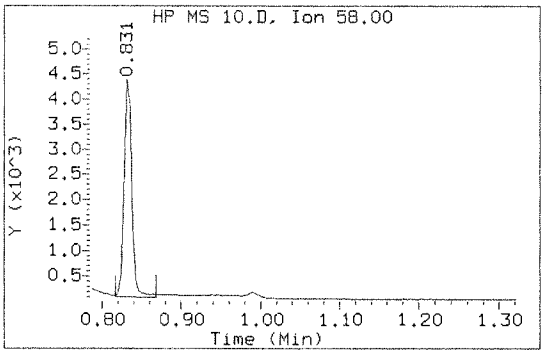
1,4-Dioxane ()

Reason Code:

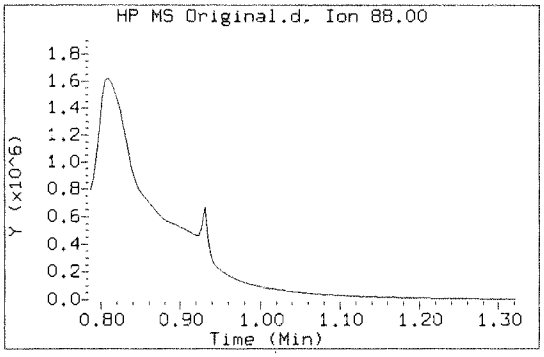
BEFORE
MASS
58
AREA
2715
HEIGHT
4282
18-Apr-2024
14:51
ALSHS
Server



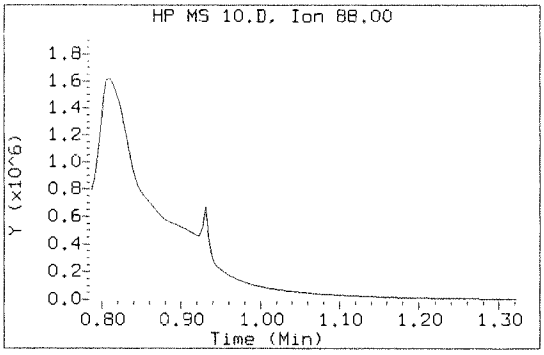
AFTER
MASS
58
AREA
2813
HEIGHT
4303
28-May-2024
13:05



BEFORE
MASS
88
AREA
0
HEIGHT
0
18-Apr-2024
14:51
ALSHS
Server



AFTER
MASS
88
AREA
0
HEIGHT
0
28-May-2024
13:05

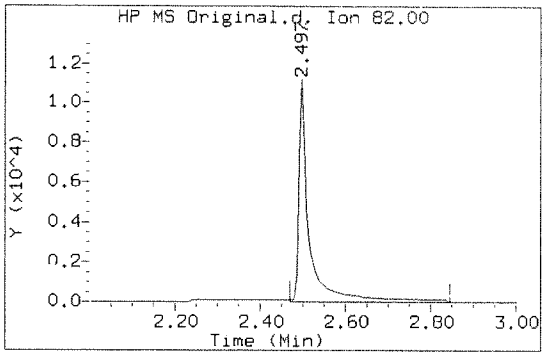


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Inj Date : 18-APR-2024 14:35
InstruID : SV6.i
LabSampID : 14DX-0.50

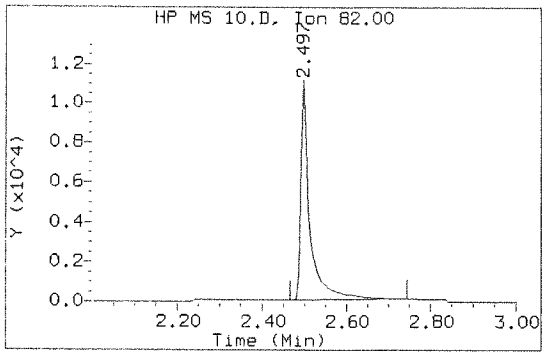
Nitrobenzene-d5 (4165-60-0)

Reason Code:

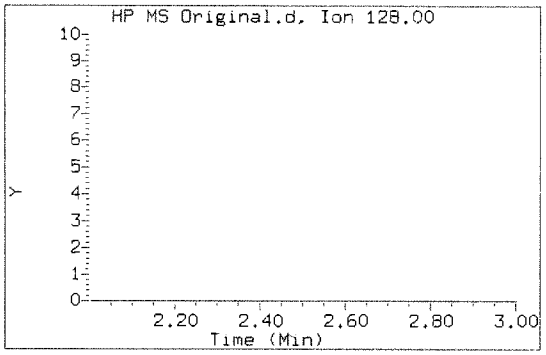
BEFORE
MASS
82
AREA
18735
HEIGHT
11209
18-Apr-2024
14:51
ALSHS
Server



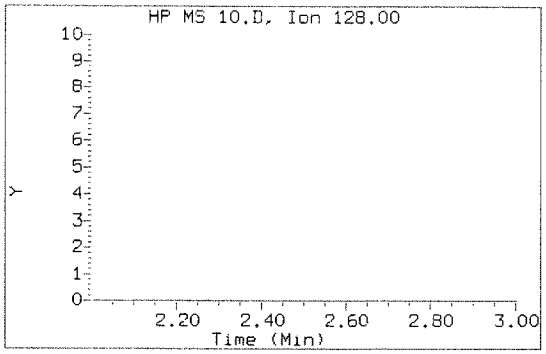
AFTER
MASS
82
AREA
15956
HEIGHT
11102
28-May-2024
13:05



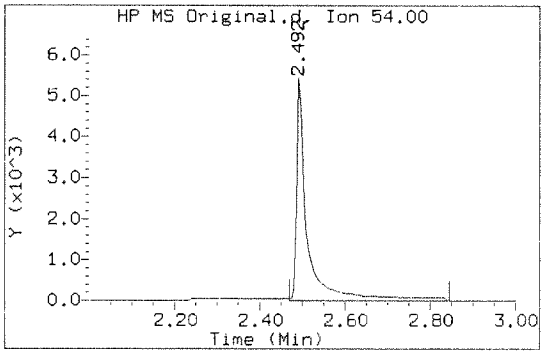
BEFORE
MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
14:51
ALSHS
Server



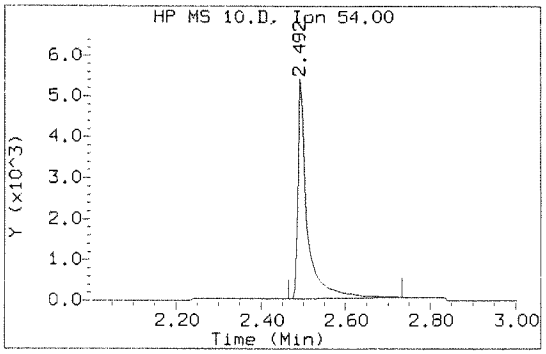
AFTER
MASS
128
AREA
0
HEIGHT
0
28-May-2024
13:05



BEFORE
MASS
54
AREA
9543
HEIGHT
5435
18-Apr-2024
14:51
ALSHS
Server



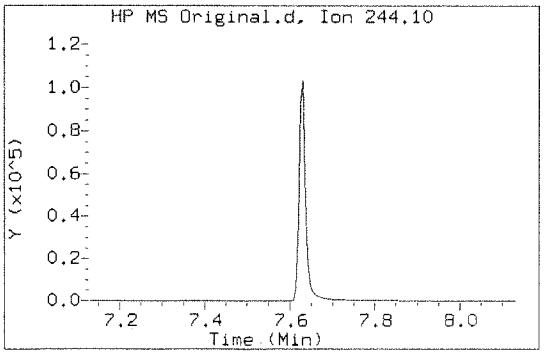
AFTER
MASS
54
AREA
8025
HEIGHT
5379
28-May-2024
13:05



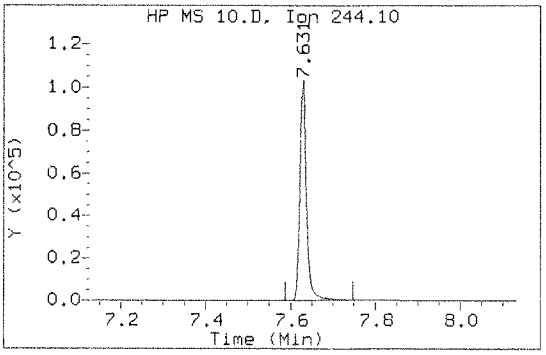
4-Terphenyl-d14 (1718-51-0)

Reason Code:

BEFORE
MASS
244.1
AREA
0
HEIGHT
0
18-Apr-2024
14:51
ALSHS
Server



AFTER
MASS
244.1
AREA
111493
HEIGHT
103434
28-May-2024
13:05

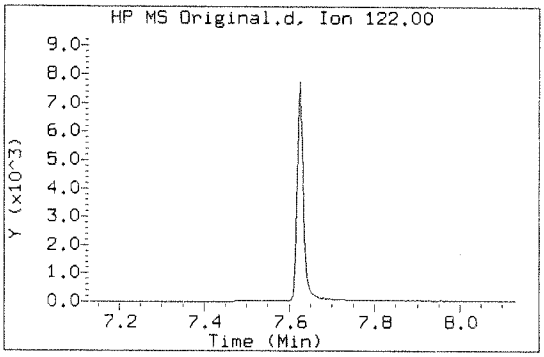


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Inj Date : 18-APR-2024 14:35
InstruID : SV6.i
LabSampID : 14DX-0.50

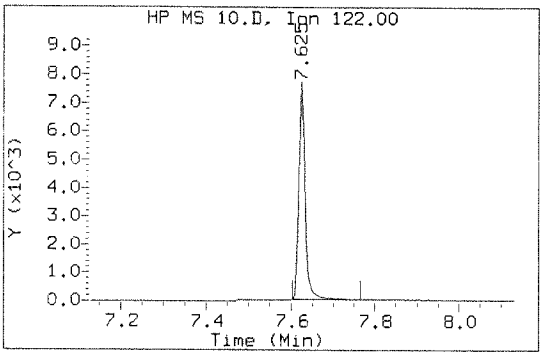
4-Terphenyl-d14 (1718-51-0)

Reason Code:

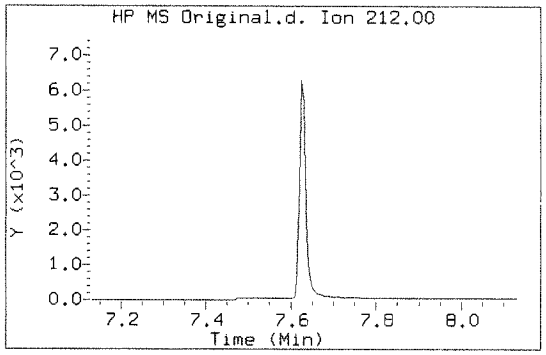
BEFORE
MASS
122
AREA
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HEIGHT
0
18-Apr-2024
14:51
ALSHS
Server



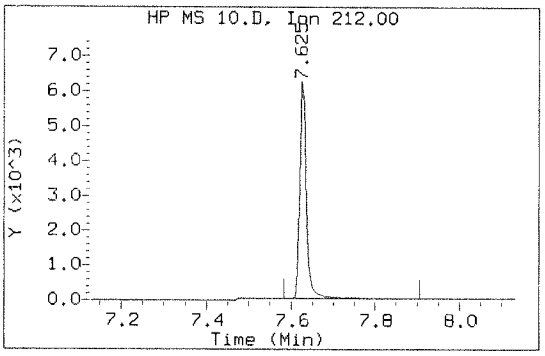
AFTER
MASS
122
AREA
7961
HEIGHT
7695
28-May-2024
13:05



BEFORE
MASS
212
AREA
0
HEIGHT
0
18-Apr-2024
14:51
ALSHS
Server



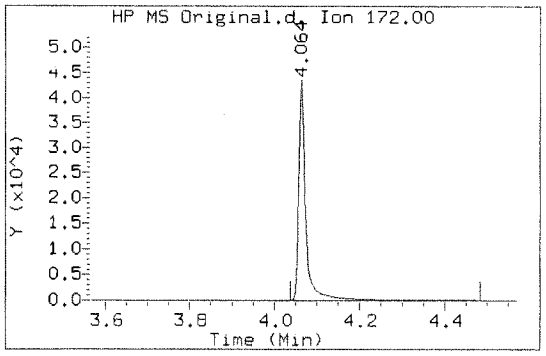
AFTER
MASS
212
AREA
6900
HEIGHT
6243
28-May-2024
13:05



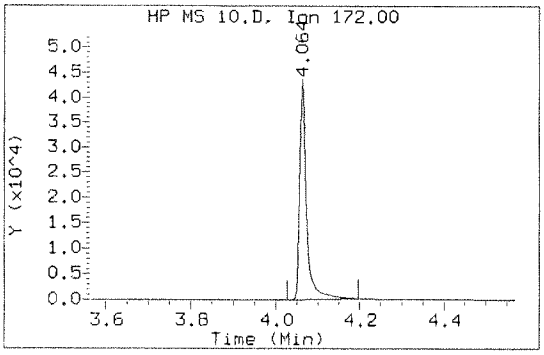
2-Fluorobiphenyl (321-60-8)

Reason Code:

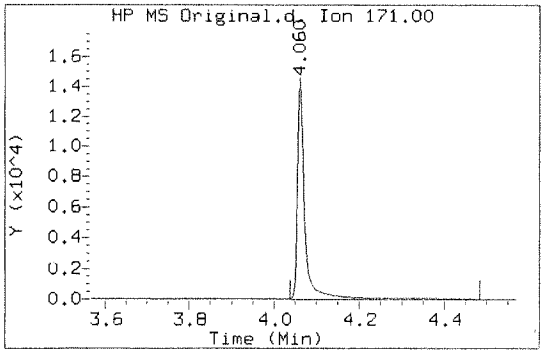
BEFORE
MASS
172
AREA
51564
HEIGHT
43720
18-Apr-2024
14:51
ALSHS
Server



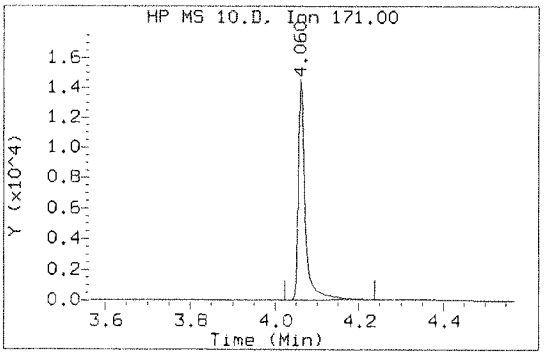
AFTER
MASS
172
AREA
47534
HEIGHT
43625
28-May-2024
13:05



BEFORE
MASS
171
AREA
18313
HEIGHT
14592
18-Apr-2024
14:51
ALSHS
Server



AFTER
MASS
171
AREA
16377
HEIGHT
14537
28-May-2024
13:05



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D Page 1
Report Date: 17-Jul-2024 16:41

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D
Lab Smp Id: 14DX ICV-0.08 Client Smp ID: 14DX ICV-0.08
Inj Date : 18-APR-2024 14:53
Operator : LG Inst ID: SV6.i
Smp Info : 14DX ICV-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 11 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)	
* 20 1,4-Dichlorobenzene-d4	152	2.094	2.089	(1.000)	2645	0.10000		(aM)
* 45 Naphthalene-d8	136	3.076	3.076	(1.000)	7708	0.10000		(M)
$ 33 Nitrobenzene-d5	82	2.496	2.502	(0.812)	1691	0.07308	0.07308	(M)
* 86 Acenaphthene-d10	164	4.665	4.671	(1.000)	5072	0.10000		(M)
$ 69 2-Fluorobiphenyl	172	4.063	4.067	(0.871)	5460	0.07042	0.07042	(M)
* 126 Phenanthrene-d10	188	6.065	6.065	(1.000)	10292	0.10000		(M)
* 182 Chrysene-d12	240	8.593	8.599	(1.000)	7884	0.10000		(M)
$ 158 4-Terphenyl-d14	244	7.630	7.630	(0.888)	11331	0.07055	0.07055	(M)
* 198 Perylene-d12	264	10.184	10.189	(1.000)	8007	0.10000		
1 1,4-Dioxane	58	0.838	0.820	(0.400)	429	0.07572	0.07572	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D

Date : 18-APR-2024 14:53

Client ID: 14DX ICV-0.08

Instrument: SV6.i

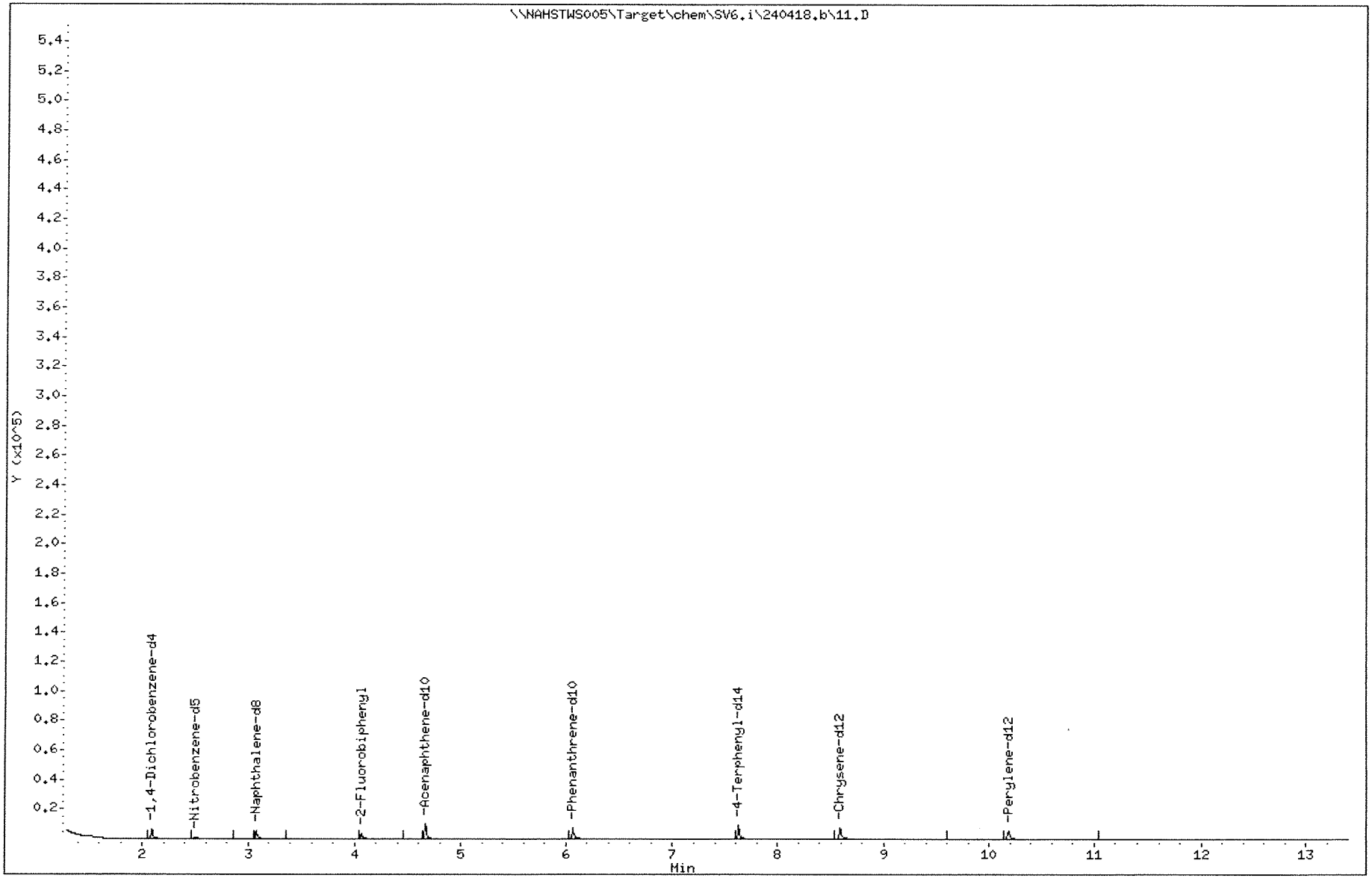
Sample Info: 14DX ICV-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

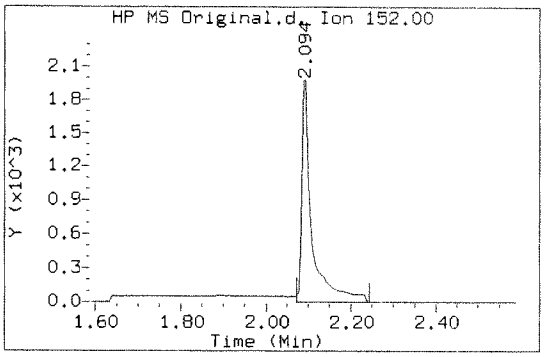


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Inj Date : 18-APR-2024 14:53
InstruID : SV6.i
LabSampID : 14DX ICV-0.08

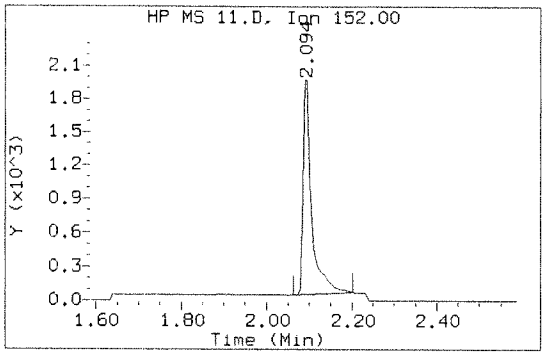
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

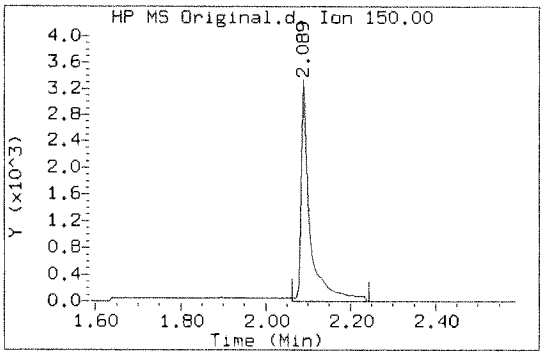
BEFORE
MASS
152
AREA
3284
HEIGHT
1978
18-Apr-2024
15:08
ALSHS
Server



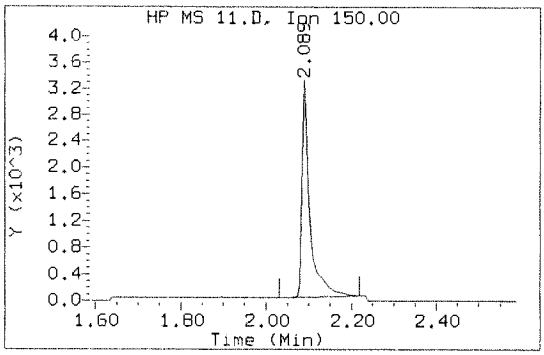
AFTER
MASS
152
AREA
2645
HEIGHT
1921
05-Jun-2024
11:49
ALSHS



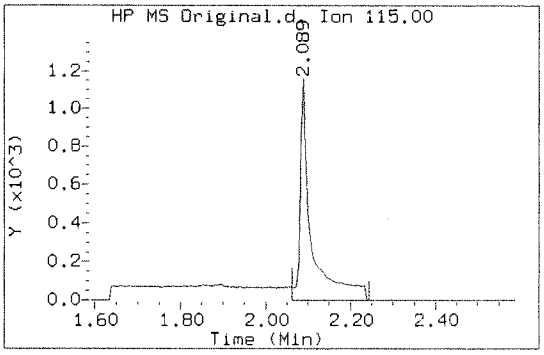
BEFORE
MASS
150
AREA
4880
HEIGHT
3340
18-Apr-2024
15:08
ALSHS
Server



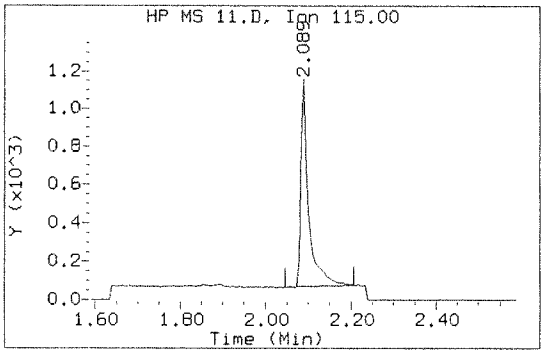
AFTER
MASS
150
AREA
4160
HEIGHT
3281
05-Jun-2024
11:49
ALSHS



BEFORE
MASS
115
AREA
2134
HEIGHT
1161
18-Apr-2024
15:08
ALSHS
Server



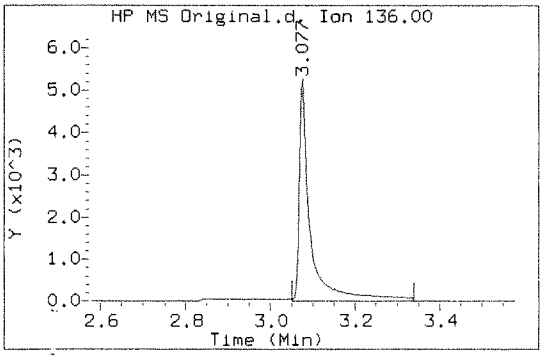
AFTER
MASS
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AREA
1363
HEIGHT
1092
05-Jun-2024
11:49
ALSHS



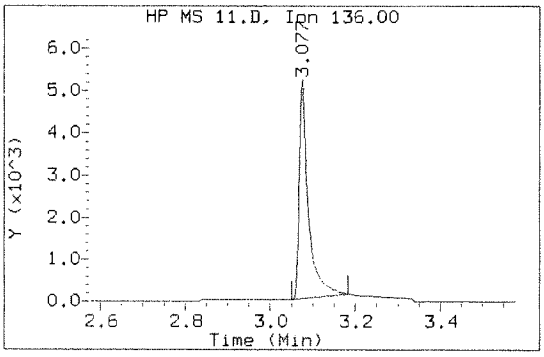
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
9692
HEIGHT
5268
18-Apr-2024
15:08
ALSHS
Server



AFTER
MASS
136
AREA
7708
HEIGHT
5193
05-Jun-2024
11:49
ALSHS

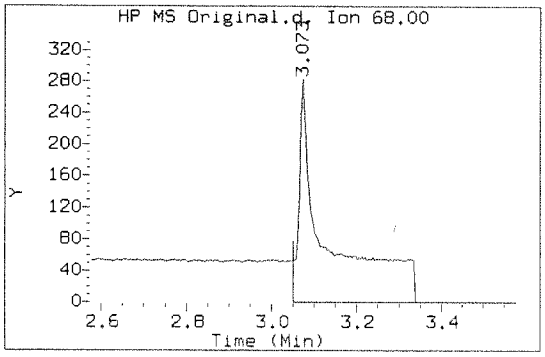


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LabSampID : 14DX ICV-0.08

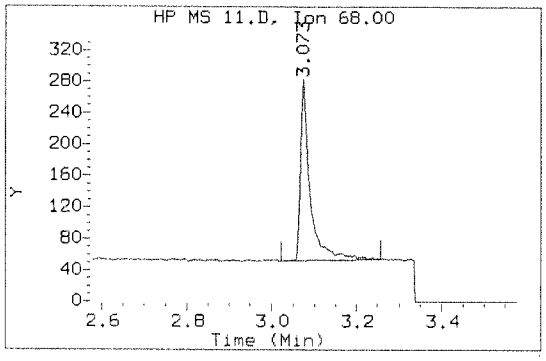
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
68
AREA
1275
HEIGHT
283
18-Apr-2024
15:08
ALSHS
Server



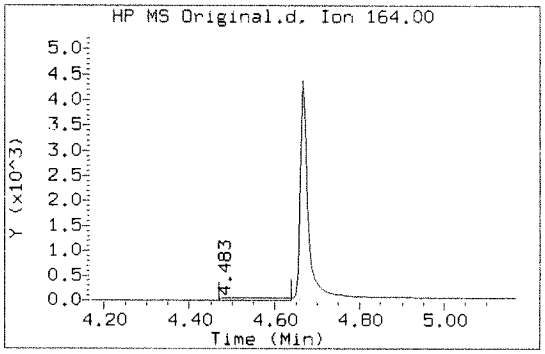
AFTER
MASS
68
AREA
353
HEIGHT
230
05-Jun-2024
11:49
ALSHS



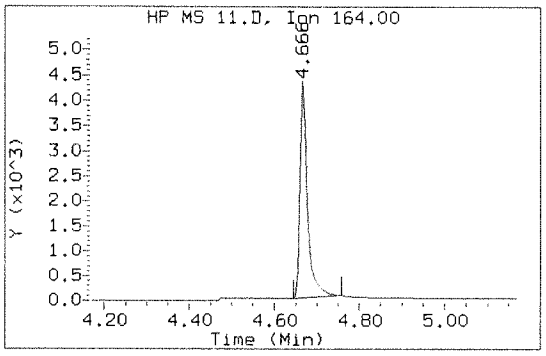
Acenaphthene-d10 (15067-26-2)

Reason Code:

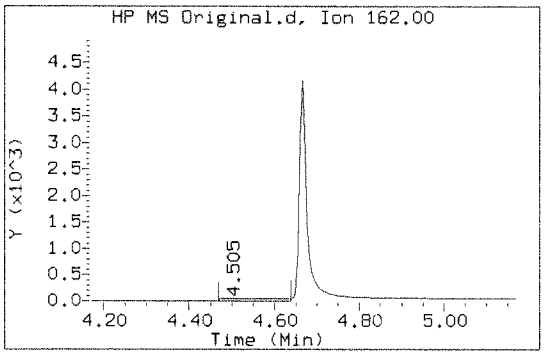
BEFORE
MASS
164
AREA
510
HEIGHT
52
18-Apr-2024
15:08
ALSHS
Server



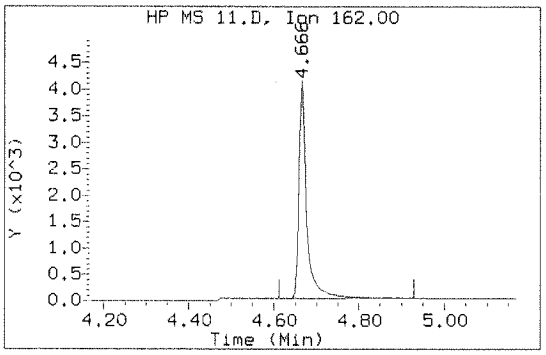
AFTER
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164
AREA
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HEIGHT
4329
05-Jun-2024
11:49
ALSHS



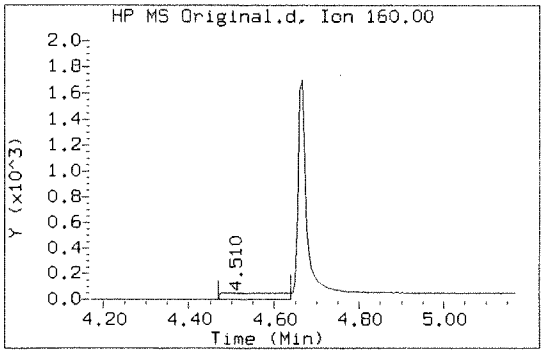
BEFORE
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15:08
ALSHS
Server



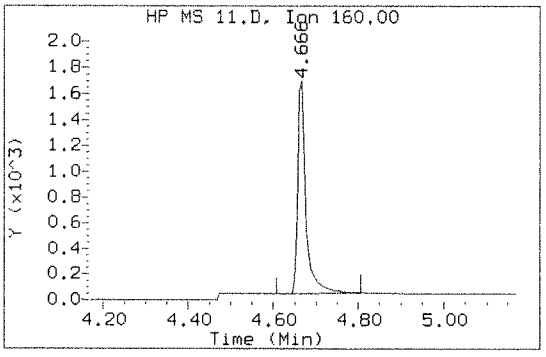
AFTER
MASS
162
AREA
5122
HEIGHT
4113
05-Jun-2024
11:49
ALSHS



BEFORE
MASS
160
AREA
484
HEIGHT
49
18-Apr-2024
15:08
ALSHS
Server



AFTER
MASS
160
AREA
2174
HEIGHT
1653
05-Jun-2024
11:49
ALSHS

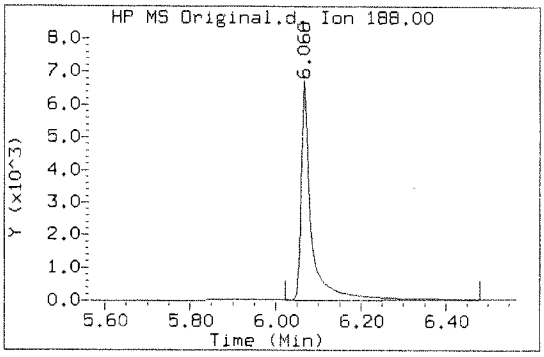


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D
Inj Date : 18-APR-2024 14:53
InstruID : SV6.i
LabSampID : 14DX ICV-0.08

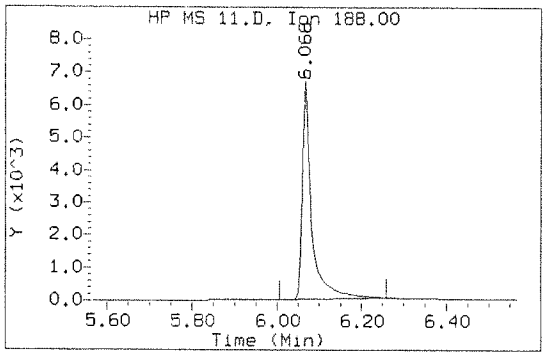
Phenanthrene-d10 (1517-22-2)

Reason Code:

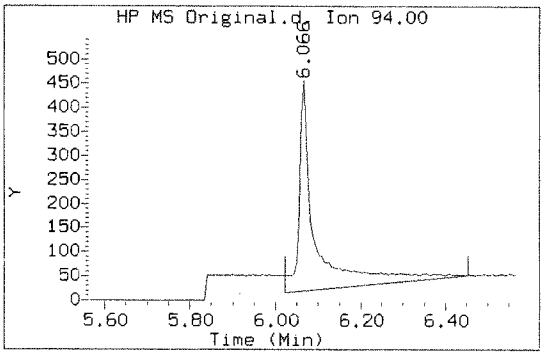
BEFORE
MASS
188
AREA
11412
HEIGHT
6713
18-Apr-2024
15:08
ALSHS
Server



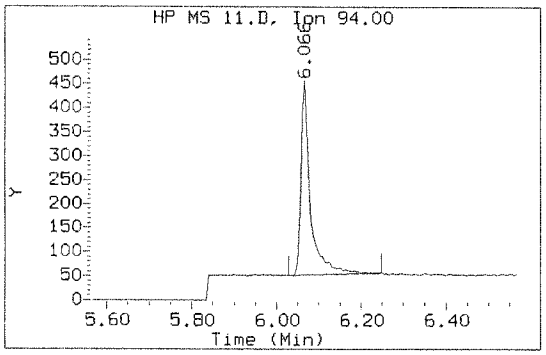
AFTER
MASS
188
AREA
10292
HEIGHT
6674
05-Jun-2024
11:49
ALSHS



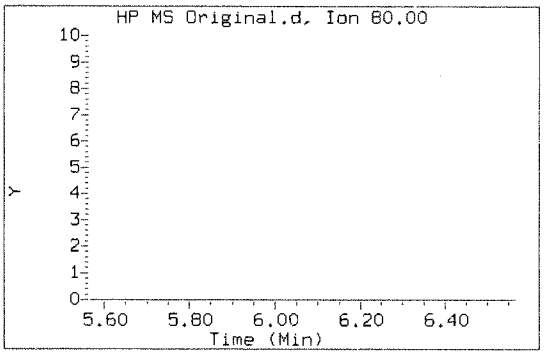
BEFORE
MASS
94
AREA
1149
HEIGHT
437
18-Apr-2024
15:08
ALSHS
Server



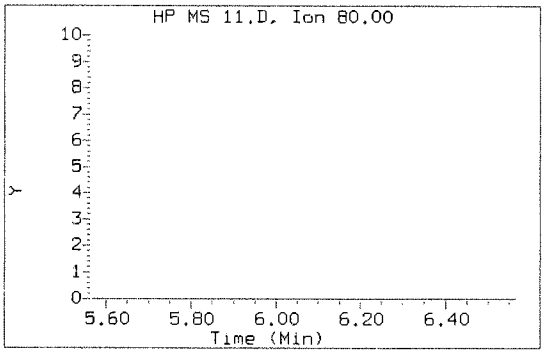
AFTER
MASS
94
AREA
624
HEIGHT
404
05-Jun-2024
11:49
ALSHS



BEFORE
MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
15:08
ALSHS
Server



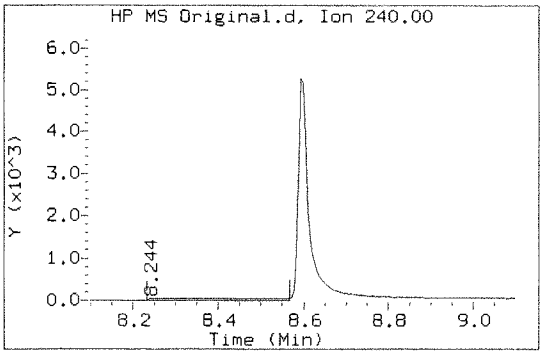
AFTER
MASS
80
AREA
0
HEIGHT
0
05-Jun-2024
11:49
ALSHS



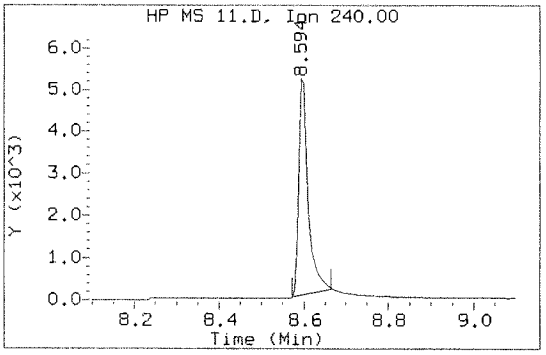
Chrysene-d12 (1719-03-5)

Reason Code:

BEFORE
MASS
240
AREA
945
HEIGHT
48
18-Apr-2024
15:08
ALSHS
Server



AFTER
MASS
240
AREA
7884
HEIGHT
5168
05-Jun-2024
11:49
ALSHS

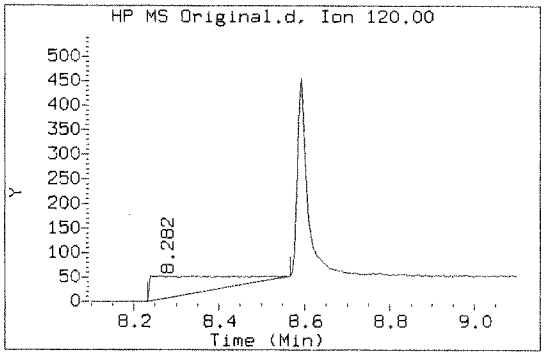


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D
Inj Date : 18-APR-2024 14:53
InstruID : SV6.i
LabSampID : 14DX ICV-0.08

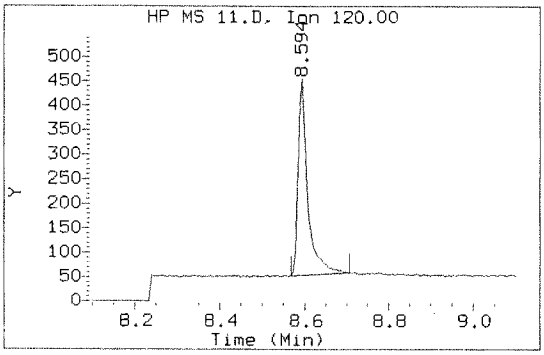
Chrysene-d12 (1719-03-5)

Reason Code:

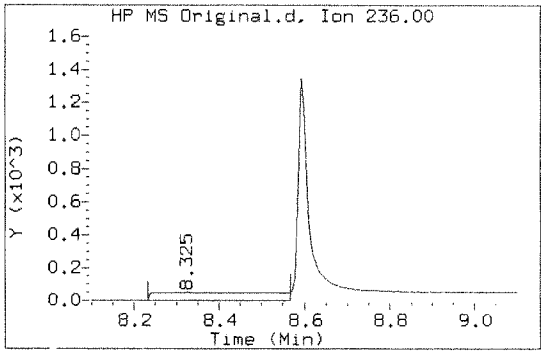
BEFORE
MASS
120
AREA
488
HEIGHT
45
18-Apr-2024
15:08
ALSHS
Server



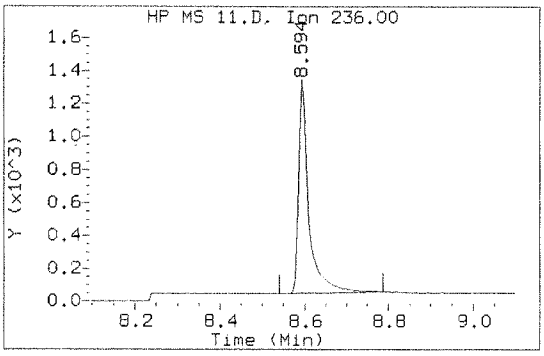
AFTER
MASS
120
AREA
625
HEIGHT
400
05-Jun-2024
11:49
ALSHS



BEFORE
MASS
236
AREA
948
HEIGHT
49
18-Apr-2024
15:08
ALSHS
Server



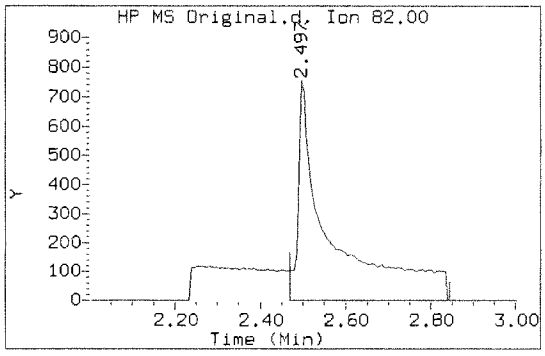
AFTER
MASS
236
AREA
2142
HEIGHT
1296
05-Jun-2024
11:49
ALSHS



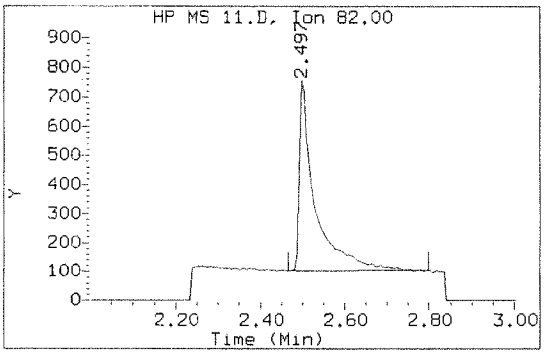
Nitrobenzene-d5 (4165-60-0)

Reason Code:

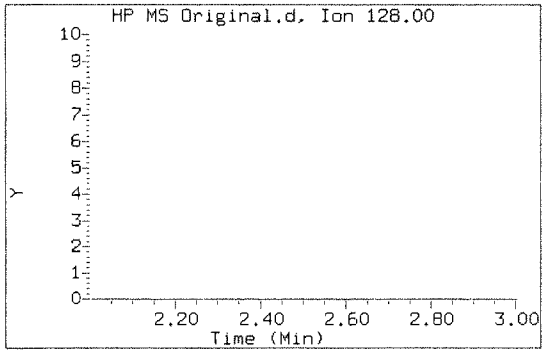
BEFORE
MASS
82
AREA
3957
HEIGHT
756
18-Apr-2024
15:08
ALSHS
Server



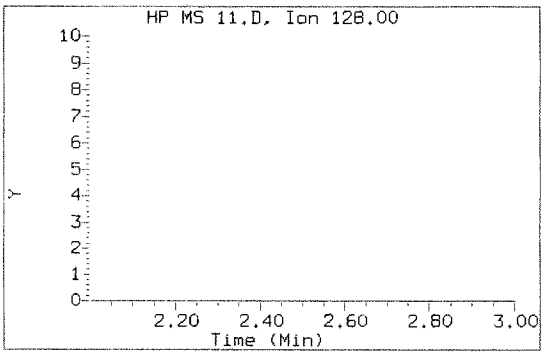
AFTER
MASS
82
AREA
1691
HEIGHT
653
05-Jun-2024
11:49
ALSHS



BEFORE
MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
15:08
ALSHS
Server



AFTER
MASS
128
AREA
0
HEIGHT
0
05-Jun-2024
11:49
ALSHS

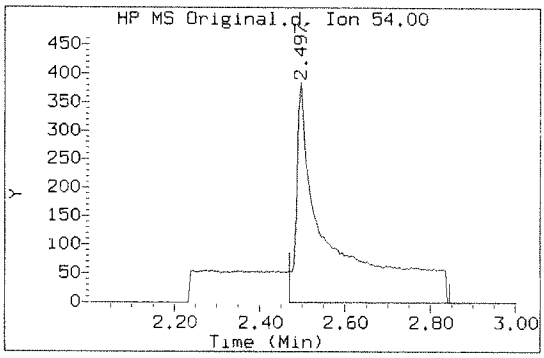


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D
Inj Date : 18-APR-2024 14:53
InstruID : SV6.i
LabSampID : 14DX ICV-0.08

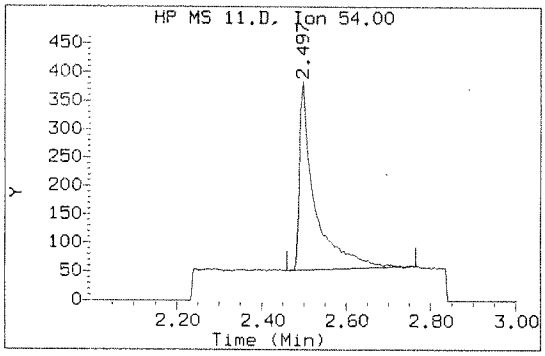
Nitrobenzene-d5 (4165-60-0)

Reason Code:

BEFORE
MASS
54
AREA
2061
HEIGHT
385
18-Apr-2024
15:08
ALSHS
Server



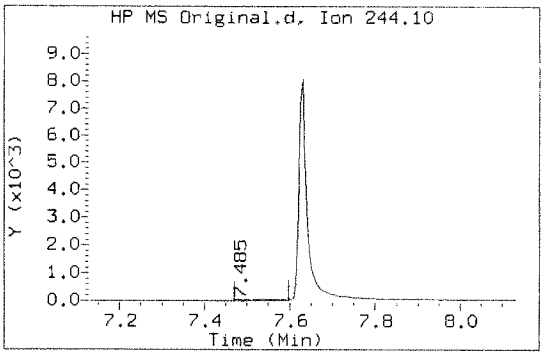
AFTER
MASS
54
AREA
818
HEIGHT
332
05-Jun-2024
11:49
ALSHS



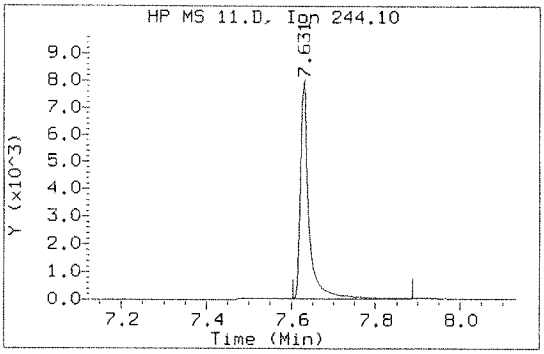
4-Terphenyl-d14 (1718-51-0)

Reason Code:

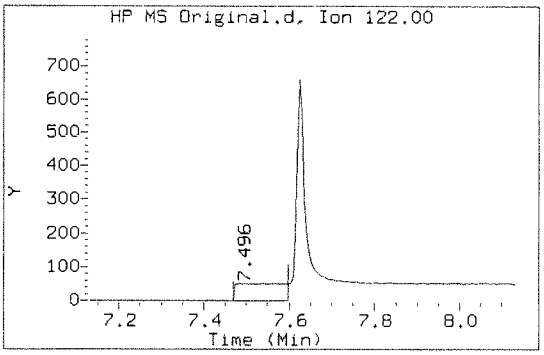
BEFORE
MASS
244.1
AREA
363
HEIGHT
48
18-Apr-2024
15:08
ALSHS
Server



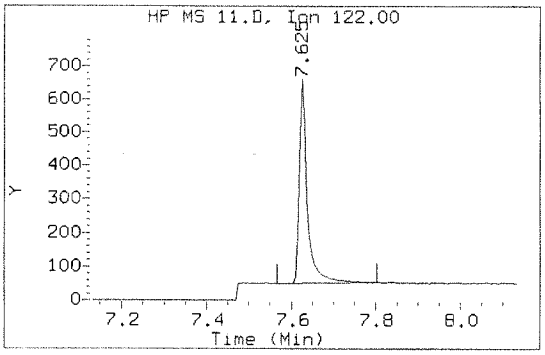
AFTER
MASS
244.1
AREA
11331
HEIGHT
8023
05-Jun-2024
11:49
ALSHS



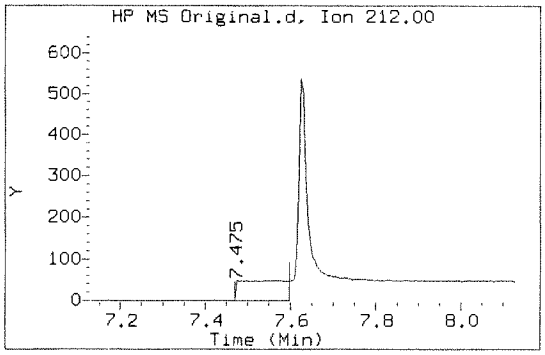
BEFORE
MASS
122
AREA
387
HEIGHT
52
18-Apr-2024
15:08
ALSHS
Server



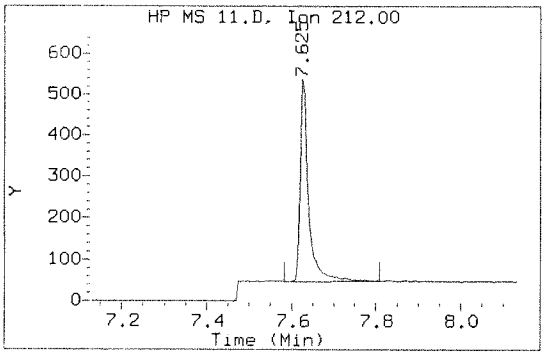
AFTER
MASS
122
AREA
801
HEIGHT
611
05-Jun-2024
11:49
ALSHS



BEFORE
MASS
212
AREA
367
HEIGHT
48
18-Apr-2024
15:08
ALSHS
Server



AFTER
MASS
212
AREA
675
HEIGHT
490
05-Jun-2024
11:49
ALSHS

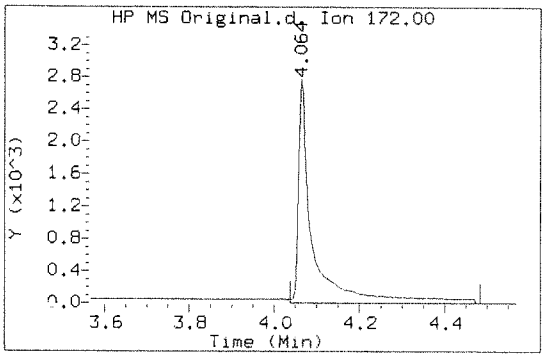


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D
Inj Date : 18-APR-2024 14:53
InstruID : SV6.i
LabSampID : 14DX ICV-0.08

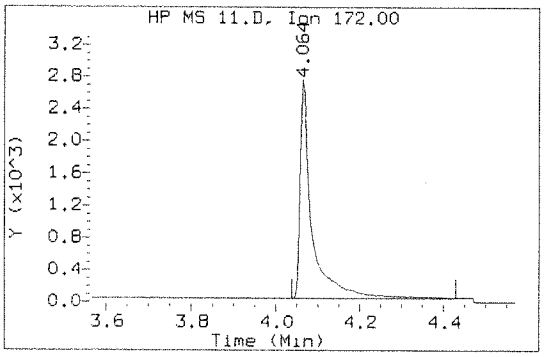
2-Fluorobiphenyl (321-60-8)

Reason Code:

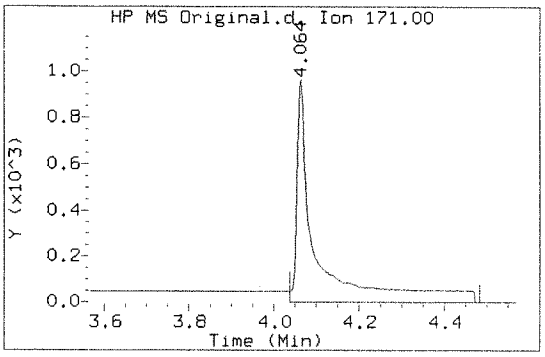
BEFORE
MASS
172
AREA
6739
HEIGHT
2770
18-Apr-2024
15:08
ALSHS
Server



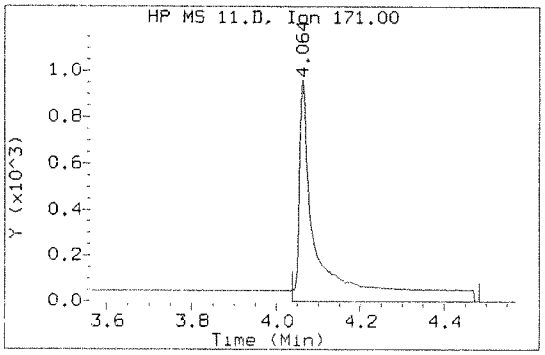
AFTER
MASS
172
AREA
5460
HEIGHT
2724
05-Jun-2024
11:49
ALSHS



BEFORE
MASS
171
AREA
3102
HEIGHT
964
18-Apr-2024
15:08
ALSHS
Server



AFTER
MASS
171
AREA
3102
HEIGHT
964
05-Jun-2024
11:49
ALSHS



right solutions.
right partner.

RawData

<textMethods>

Workorder

HS24060293

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 18/24

07/17/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Data File: \\NAHSTWS005\Target\chem\SV6.i\240619.b\01.D Page 1
Report Date: 19-Jun-2024 12:29

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\SV6.i\240619.b\01.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 19-JUN-2024 11:59
Operator : smith Inst ID: SV6.i
Smp Info : DFTPP;DFTPP;3;;DFTPP
Misc Info :
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240619.b\DFTPP.m
Meth Date : 14-Mar-2023 15:58 Linh.Pham Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: NAHSTW7095

					CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
RT	EXP RT	DLT RT	MASS	RESPONSE				
1 dftpp						CAS #: 5074-71-5		
4.266	5.571	-1.305	198	166592			0.00- 100.00	68.95
4.266	6.357	-2.091	51	38552			10.00- 80.00	23.14
4.266	6.357	-2.091	68	853			0.00- 2.00	1.79
4.266	6.357	-2.091	69	47648			0.00- 0.00	28.60
4.266	6.357	-2.091	70	294			0.00- 2.00	0.62
4.266	6.357	-2.091	127	61144			10.00- 80.00	36.70
4.266	6.357	-2.091	197	0	0.0	0.0	0.00- 2.00	0.00
4.266	6.357	-2.091	199	11099			5.00- 9.00	6.66
4.266	6.357	-2.091	275	49264			10.00- 60.00	29.57
4.266	6.357	-2.091	365	5922			1.00- 100.00	3.55
4.266	6.357	-2.091	441	34672			0.01- 99.99	73.82
4.266	6.357	-2.091	442	241600			50.00- 150.00	145.02
4.266	6.357	-2.091	443	46968			15.00- 24.00	19.44

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	23.14
68	Less than 2.00% of mass 69	0.51 (1.79)
69	Mass 69 relative abundance	28.60
70	Less than 2.00% of mass 69	0.18 (0.62)
127	10.00 - 80.00% of mass 198	36.70
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.66
275	10.00 - 60.00% of mass 198	29.57
365	1.00 - 100.00% of mass 198	3.55
441	Present, but less than mass 443	20.81
442	50.00 - 150.00% of mass 198	145.02
443	15.00 - 24.00% of mass 442	28.19 (19.44)

Data File: 01.D
Spectrum: HP ChemStation MS 01.D, Scan 314: 4.266 min. (SUB)
Location of Maximum: 442.00
Number of points: 256

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	246	130.00	2313	200.00	715	283.90	261
38.10	665	131.00	437	201.40	861	285.00	784
39.00	2403	131.90	161	202.90	882	291.90	201
40.00	196	134.00	784	204.00	5394	293.00	736
49.10	295	134.90	1845	205.00	9179	293.90	254
50.00	9841	136.00	925	206.00	41136	294.90	414
51.10	38552	137.00	859	207.00	5533	296.00	11001
52.10	2072	137.90	156	208.00	1121	297.00	1458
54.90	241	139.00	210	208.90	495	301.20	188
55.90	1484	140.10	220	210.10	786	301.90	231
57.00	2985	141.00	2642	210.90	1653	303.00	1477
61.00	525	141.90	865	211.80	377	304.10	485
62.10	647	142.90	795	214.90	532	308.00	157
63.00	1560	143.80	154	215.90	899	309.90	154
64.00	315	145.00	268	216.90	10810	313.90	624
65.00	661	146.00	639	218.00	1226	314.90	1318
68.10	853	147.00	1643	219.00	205	315.90	732
69.00	47648	148.00	3170	220.90	8582	321.10	382
70.00	294	149.00	527	223.00	2667	322.00	345
72.90	341	149.90	178	224.00	22424	323.00	4742
74.10	4403	151.50	728	225.00	5676	323.90	681
75.00	7098	153.00	822	225.90	626	327.00	882
76.10	2376	153.90	930	227.00	8887	327.80	402
77.00	48800	155.10	1501	227.90	988	332.00	304
78.00	2932	156.00	2456	229.00	2025	332.90	512
79.00	2783	156.90	496	229.90	218	334.00	2691
80.00	2467	157.80	412	231.00	718	335.00	745
81.00	3613	159.00	299	232.90	273	341.00	678
82.00	819	159.90	959	233.90	525	345.90	901
82.90	895	161.00	1493	235.00	663	346.80	225
84.00	190	162.00	500	235.80	339	352.00	1717
85.00	790	163.90	249	237.00	612	353.00	1008
86.00	972	164.90	1648	239.00	208	354.00	1733
87.10	504	166.00	1047	240.00	365	354.90	215
87.90	307	167.00	6177	241.00	504	365.00	5922
91.00	635	168.00	2506	242.00	1187	365.90	794
92.00	968	168.90	528	243.10	1221	370.10	199
93.00	5382	170.20	174	244.00	18264	370.80	367
94.00	428	170.90	250	245.00	2603	372.00	2309
96.00	356	172.00	527	246.00	3020	373.00	592
98.00	4484	173.00	685	247.10	582	382.90	675
99.00	3242	174.00	1523	248.00	182	390.00	263
99.80	229	175.00	2408	248.90	806	391.10	163
101.00	1902	176.00	924	249.90	206	401.00	208
103.00	728	176.90	1454	251.00	163	402.00	1196

104.00	1725	178.10	457	252.00	194	403.00	1619
104.90	1273	179.00	5060	253.00	592	404.00	559
106.00	521	180.00	3207	255.00	100632	421.00	1577
107.00	16036	181.00	1587	256.00	14983	422.00	1695
108.00	2327	182.00	265	256.90	1076	423.00	10459
110.00	31184	183.10	187	257.90	5178	424.00	1914
111.00	4556	183.90	377	258.90	771	425.00	278
112.00	532	185.00	2401	260.90	203	436.20	239
112.80	214	186.00	19624	263.70	185	437.10	177
116.00	820	187.00	5600	264.90	1763	437.80	281
117.00	12018	187.90	648	266.00	289	438.80	403
117.90	897	189.00	1281	271.00	269	441.00	34672
120.00	244	190.80	592	271.90	339	442.00	241600
121.90	954	191.90	1519	273.00	3209	443.00	46968
123.00	1844	193.00	1955	274.00	8074	444.00	4495
123.90	664	194.00	423	275.00	49264	444.90	305
125.60	960	195.20	522	276.00	6597		
127.00	61144	196.00	4435	276.90	3450		
128.00	5181	197.90	166592	277.90	691		
129.00	23568	198.90	11099	283.00	480		

Data File: \\NAHSTWS005\Target\chem\SV6.i\240619.b\01.D Page 1

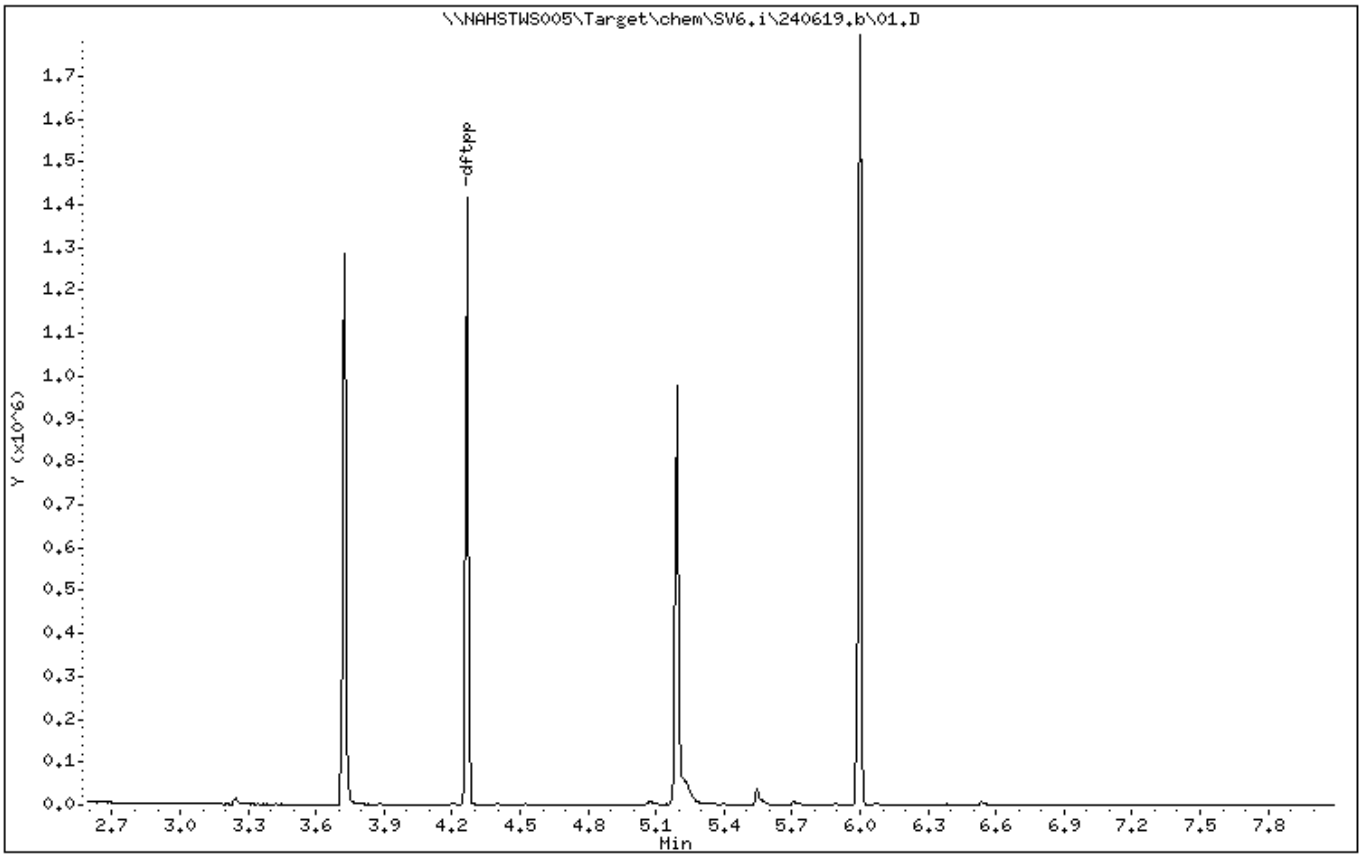
Date : 19-JUN-2024 11:59

Client ID: DFTPP Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\SV6.i\240619.b\01.D Page 2

Date : 19-JUN-2024 11:59

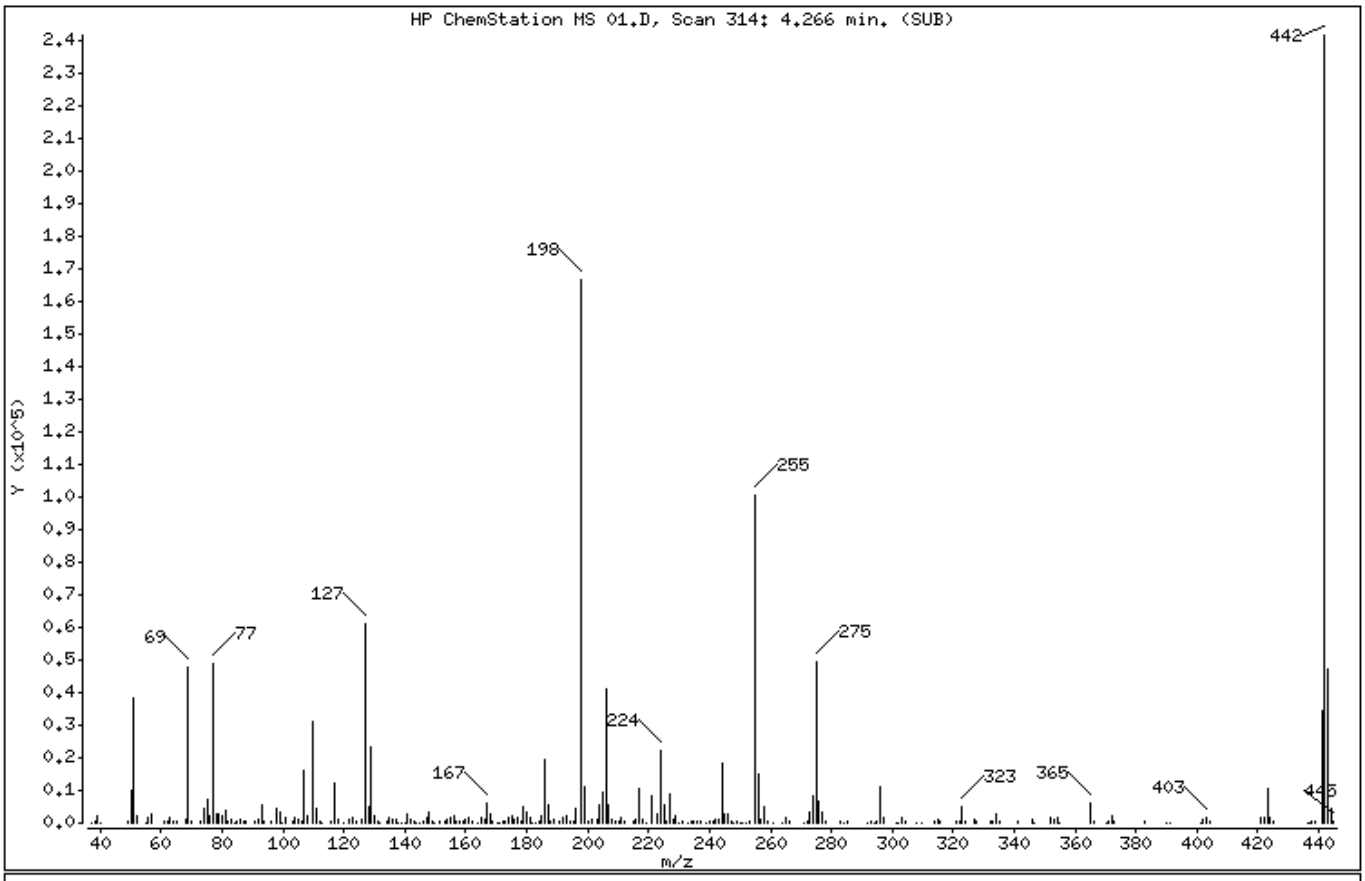
Client ID: DFTPP Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	23.14
68	Less than 2.00% of mass 69	0.51 (1.79)
69	Mass 69 relative abundance	28.60
70	Less than 2.00% of mass 69	0.18 (0.62)
127	10.00 - 80.00% of mass 198	36.70
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.66
275	10.00 - 60.00% of mass 198	29.57
365	1.00 - 100.00% of mass 198	3.55
441	Present, but less than mass 443	20.81
442	50.00 - 150.00% of mass 198	145.02
443	15.00 - 24.00% of mass 442	28.19 (19.44)

Data File: \\NAHSTWS005\Target\chem\SV6.i\240619.b\01.D

Date : 19-JUN-2024 11:59

Client ID: DFTPP Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS Column diameter: 0.25

Data File: 01.D
Spectrum: HP ChemStation MS 01.D, Scan 314: 4.266 min. (SUB)
Location of Maximum: 442.00
Number of points: 256

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	246	130.00	2313	200.00	715	283.90	261
38.10	665	131.00	437	201.40	861	285.00	784
39.00	2403	131.90	161	202.90	882	291.90	201
40.00	196	134.00	784	204.00	5394	293.00	736
49.10	295	134.90	1845	205.00	9179	293.90	254
50.00	9841	136.00	925	206.00	41136	294.90	414
51.10	38552	137.00	859	207.00	5533	296.00	11001
52.10	2072	137.90	156	208.00	1121	297.00	1458
54.90	241	139.00	210	208.90	495	301.20	188
55.90	1484	140.10	220	210.10	786	301.90	231
57.00	2985	141.00	2642	210.90	1653	303.00	1477
61.00	525	141.90	865	211.80	377	304.10	485
62.10	647	142.90	795	214.90	532	308.00	157
63.00	1560	143.80	154	215.90	899	309.90	154
64.00	315	145.00	268	216.90	10810	313.90	624
65.00	661	146.00	639	218.00	1226	314.90	1318
68.10	853	147.00	1643	219.00	205	315.90	732
69.00	47648	148.00	3170	220.90	8582	321.10	382
70.00	294	149.00	527	223.00	2667	322.00	345
72.90	341	149.90	178	224.00	22424	323.00	4742
74.10	4403	151.50	728	225.00	5676	323.90	681
75.00	7098	153.00	822	225.90	626	327.00	882
76.10	2376	153.90	930	227.00	8887	327.80	402
77.00	48800	155.10	1501	227.90	988	332.00	304
78.00	2932	156.00	2456	229.00	2025	332.90	512
79.00	2783	156.90	496	229.90	218	334.00	2691
80.00	2467	157.80	412	231.00	718	335.00	745
81.00	3613	159.00	299	232.90	273	341.00	678
82.00	819	159.90	959	233.90	525	345.90	901
82.90	895	161.00	1493	235.00	663	346.80	225
84.00	190	162.00	500	235.80	339	352.00	1717
85.00	790	163.90	249	237.00	612	353.00	1008
86.00	972	164.90	1648	239.00	208	354.00	1733
87.10	504	166.00	1047	240.00	365	354.90	215
87.90	307	167.00	6177	241.00	504	365.00	5922

Data File: \\NAHSTWS005\Target\chem\SV6.i\240619.b\01.D

Date : 19-JUN-2024 11:59

Client ID: DFTPP Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS Column diameter: 0.25

Data File: 01.D
Spectrum: HP ChemStation MS 01.D, Scan 314: 4.266 min. (SUB)
Location of Maximum: 442.00
Number of points: 256

m/z	Y	m/z	Y	m/z	Y	m/z	Y
91.00	635	168.00	2506	242.00	1187	365.90	794
92.00	968	168.90	528	243.10	1221	370.10	199
93.00	5382	170.20	174	244.00	18264	370.80	367
94.00	428	170.90	250	245.00	2603	372.00	2309
96.00	356	172.00	527	246.00	3020	373.00	592
98.00	4484	173.00	685	247.10	582	382.90	675
99.00	3242	174.00	1523	248.00	182	390.00	263
99.80	229	175.00	2408	248.90	806	391.10	163
101.00	1902	176.00	924	249.90	206	401.00	208
103.00	728	176.90	1454	251.00	163	402.00	1196
104.00	1725	178.10	457	252.00	194	403.00	1619
104.90	1273	179.00	5060	253.00	592	404.00	559
106.00	521	180.00	3207	255.00	100632	421.00	1577
107.00	16036	181.00	1587	256.00	14983	422.00	1695
108.00	2327	182.00	265	256.90	1076	423.00	10459
110.00	31184	183.10	187	257.90	5178	424.00	1914
111.00	4556	183.90	377	258.90	771	425.00	278
112.00	532	185.00	2401	260.90	203	436.20	239
112.80	214	186.00	19624	263.70	185	437.10	177
116.00	820	187.00	5600	264.90	1763	437.80	281
117.00	12018	187.90	648	266.00	289	438.80	403
117.90	897	189.00	1281	271.00	269	441.00	34672
120.00	244	190.80	592	271.90	339	442.00	241600
121.90	954	191.90	1519	273.00	3209	443.00	46968
123.00	1844	193.00	1955	274.00	8074	444.00	4495
123.90	664	194.00	423	275.00	49264	444.90	305
125.60	960	195.20	522	276.00	6597		
127.00	61144	196.00	4435	276.90	3450		
128.00	5181	197.90	166592	277.90	691		
129.00	23568	198.90	11099	283.00	480		

Data File: \\NAHSTWS005\Target\chem\SV6.i\240619.b\04.D Page 1
Report Date: 15-Jul-2024 09:40

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240619.b\04.D
Lab Smp Id: 14DX-0.08 Client Smp ID: 14DX-0.08
Inj Date : 19-JUN-2024 13:27
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240619.b\DXSIM.m
Meth Date : 15-Jul-2024 09:40 SV6.i Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7014

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	2.186	2.186	(1.000)	2593	0.10000	(aM)
* 45 Naphthalene-d8	136	3.176	3.176	(1.000)	8265	0.10000	
$ 33 Nitrobenzene-d5	82	2.594	2.594	(0.817)	1911	0.08000	0.07702(M)
* 86 Acenaphthene-d10	164	4.776	4.776	(1.000)	4917	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.168	4.168	(0.873)	5856	0.08000	0.07791(M)
* 126 Phenanthrene-d10	188	6.181	6.181	(1.000)	9268	0.10000	(M)
* 182 Chrysene-d12	240	8.725	8.725	(1.000)	7090	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.746	7.746	(0.888)	9627	0.08000	0.06665(M)
* 198 Perylene-d12	264	10.365	10.365	(1.000)	8055	0.10000	
1 1,4-Dioxane	58	0.930	0.930	(0.426)	360	0.08000	0.06482(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240619.b\04.D

Date : 19-JUN-2024 13:27

Client ID: 14DX-0.08

Instrument: SV6.i

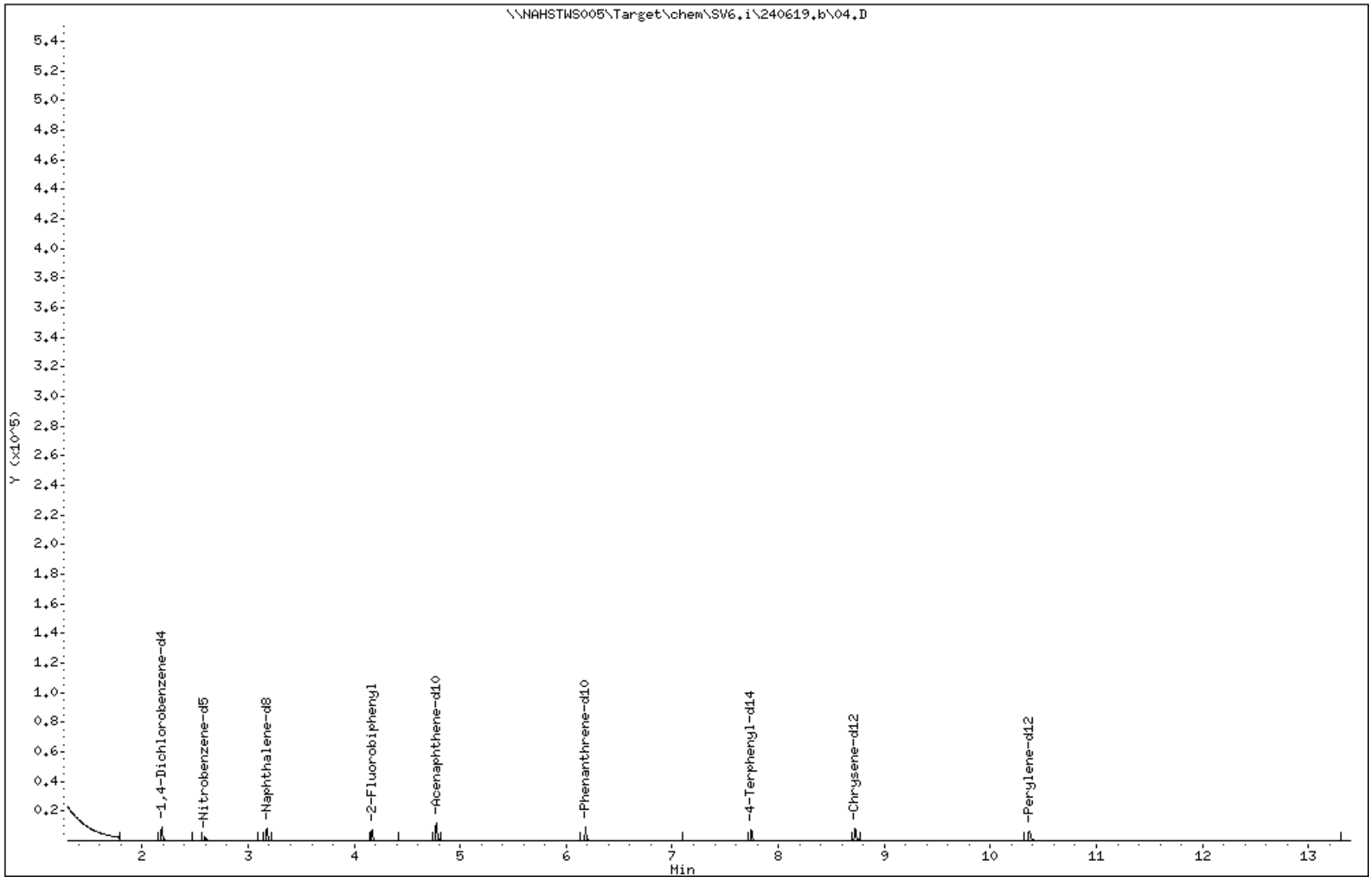
Sample Info: 14DX-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



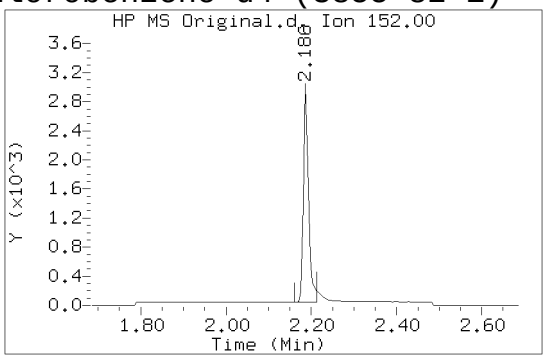
Data File : \\NAHSTWS005\Target\chem\SV6.i\240619.b\04.D
Inj Date : 19-JUN-2024 13:27
InstruID : SV6.i
LabSampID : 14DX-0.08

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

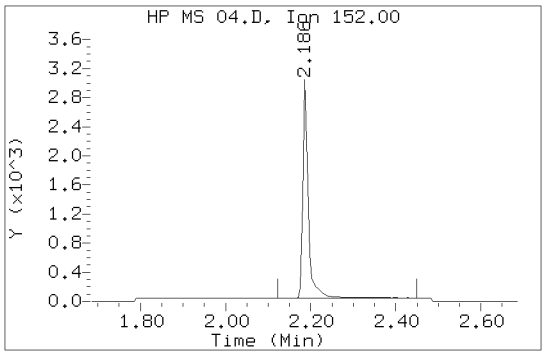
BEFORE

MASS
152
AREA
2436
HEIGHT
3001
19-Jun-2024
13:43
ALSHS
Server



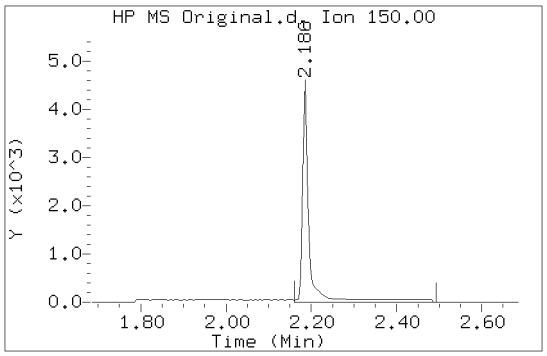
AFTER

MASS
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AREA
2593
HEIGHT
2999
15-Jul-2024
09:40
ALSHS



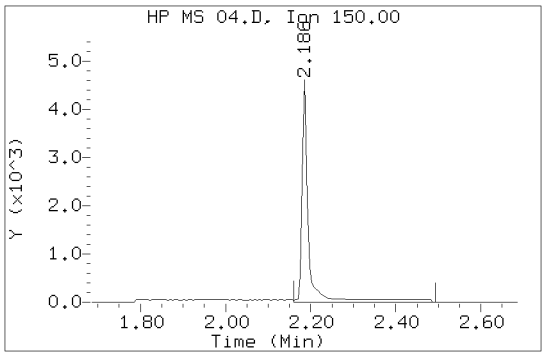
BEFORE

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AREA
4988
HEIGHT
4609
19-Jun-2024
13:43
ALSHS
Server



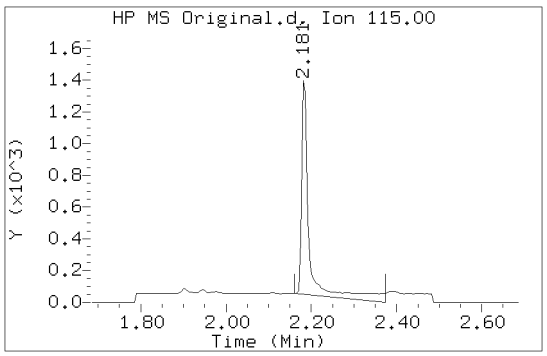
AFTER

MASS
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AREA
4988
HEIGHT
4609
15-Jul-2024
09:40
ALSHS



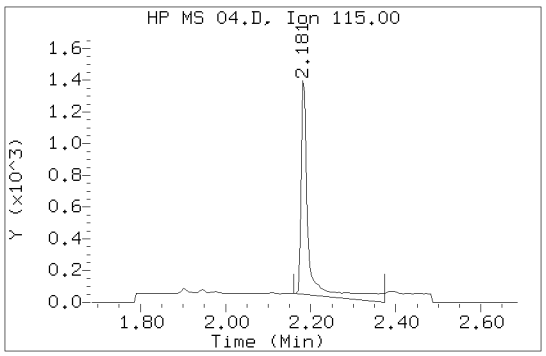
BEFORE

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115
AREA
1675
HEIGHT
1347
19-Jun-2024
13:43
ALSHS
Server



AFTER

MASS
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AREA
1675
HEIGHT
1347
15-Jul-2024
09:40
ALSHS

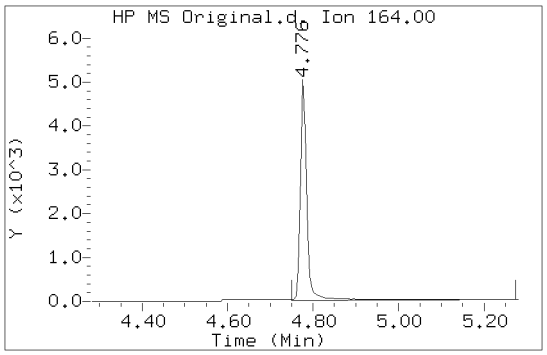


Acenaphthene-d10 (15067-26-2)

Reason Code:

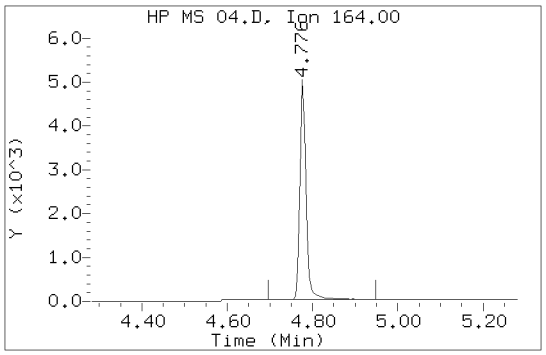
BEFORE

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AREA
5539
HEIGHT
5042
19-Jun-2024
13:43
ALSHS
Server



AFTER

MASS
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AREA
4917
HEIGHT
5007
15-Jul-2024
09:40
ALSHS



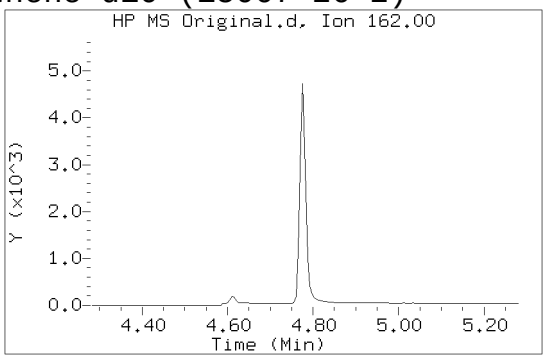
Data File : \\NAHSTWS005\Target\chem\SV6.i\240619.b\04.D
Inj Date : 19-JUN-2024 13:27
InstruID : SV6.i
LabSampID : 14DX-0.08

Acenaphthene-d10 (15067-26-2)

Reason Code:

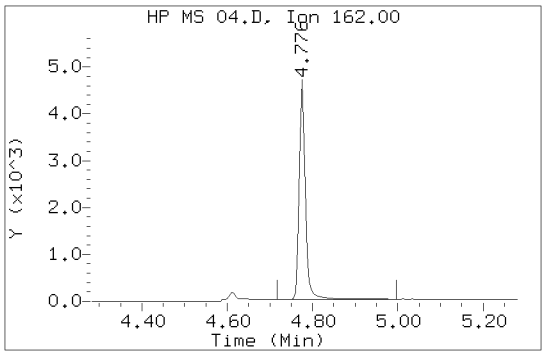
BEFORE

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AREA
5217
HEIGHT
4716
19-Jun-2024
13:43
ALSHS
Server



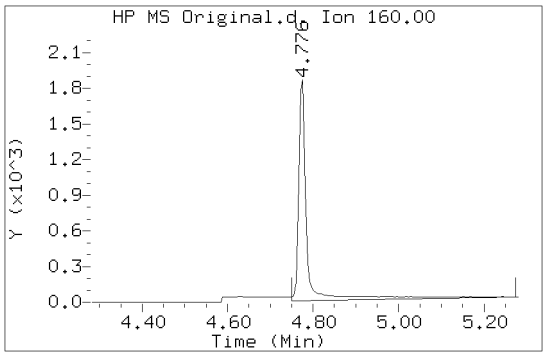
AFTER

MASS
162
AREA
4616
HEIGHT
4682
15-Jul-2024
09:40
ALSHS



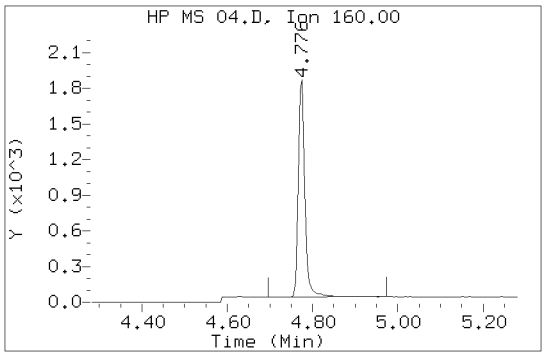
BEFORE

MASS
160
AREA
2489
HEIGHT
1858
19-Jun-2024
13:43
ALSHS
Server



AFTER

MASS
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AREA
1943
HEIGHT
1826
15-Jul-2024
09:40
ALSHS

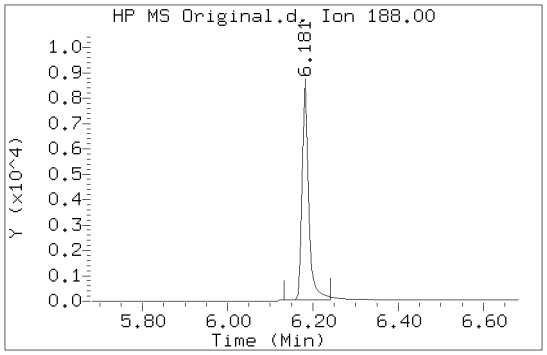


Phenanthrene-d10 (1517-22-2)

Reason Code:

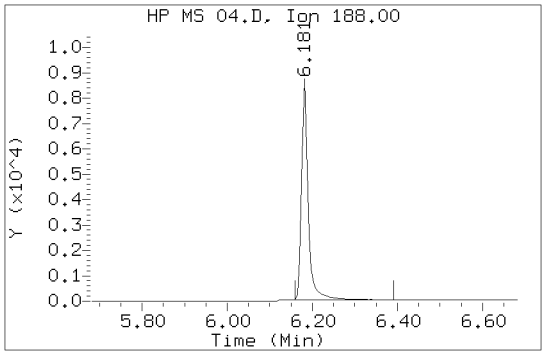
BEFORE

MASS
188
AREA
9146
HEIGHT
8715
19-Jun-2024
13:43
ALSHS
Server



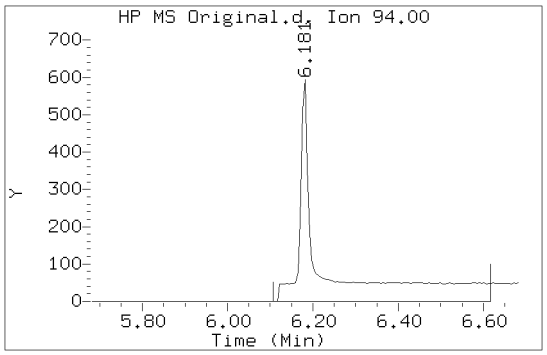
AFTER

MASS
188
AREA
9268
HEIGHT
8702
15-Jul-2024
09:40
ALSHS



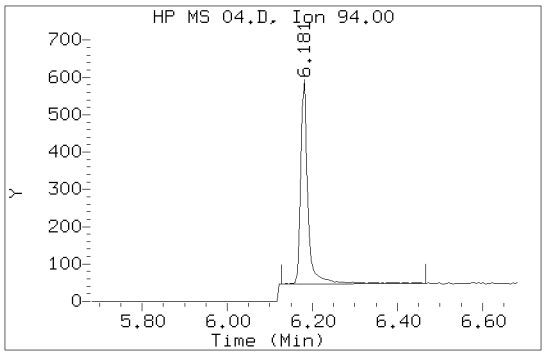
BEFORE

MASS
94
AREA
2062
HEIGHT
594
19-Jun-2024
13:43
ALSHS
Server



AFTER

MASS
94
AREA
631
HEIGHT
546
15-Jul-2024
09:40
ALSHS



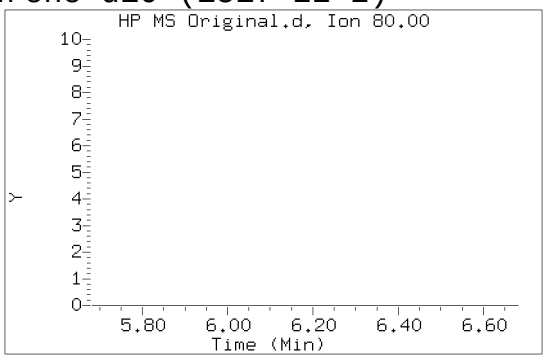
Data File : \\NAHSTWS005\Target\chem\SV6.i\240619.b\04.D
Inj Date : 19-JUN-2024 13:27
InstruID : SV6.i
LabSampID : 14DX-0.08

Phenanthrene-d10 (1517-22-2)

Reason Code:

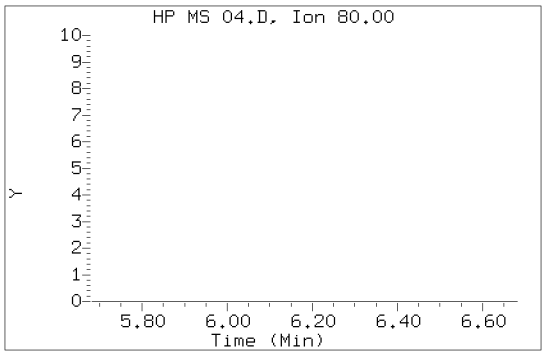
BEFORE

MASS
80
AREA
0
HEIGHT
0
19-Jun-2024
13:43
ALSHS
Server



AFTER

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AREA
0
HEIGHT
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15-Jul-2024
09:40
ALSHS

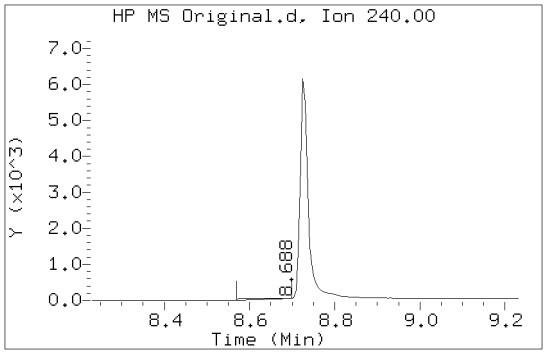


Chrysene-d12 (1719-03-5)

Reason Code:

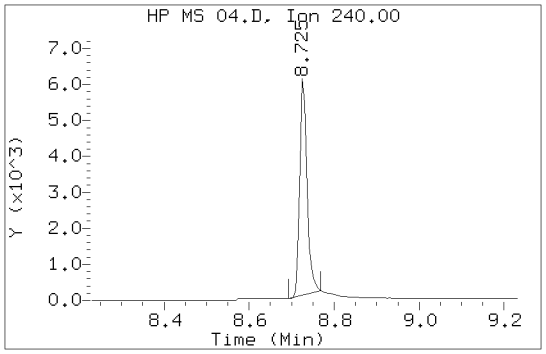
BEFORE

MASS
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AREA
161
HEIGHT
3
19-Jun-2024
13:43
ALSHS
Server



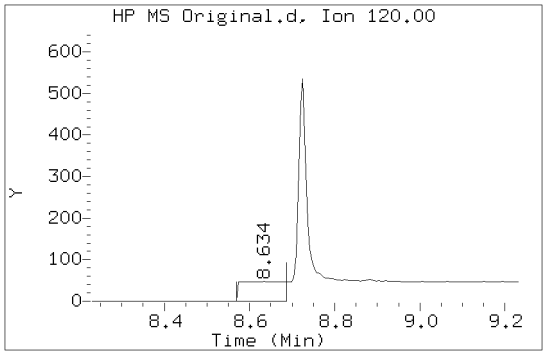
AFTER

MASS
240
AREA
7090
HEIGHT
6018
15-Jul-2024
09:40
ALSHS



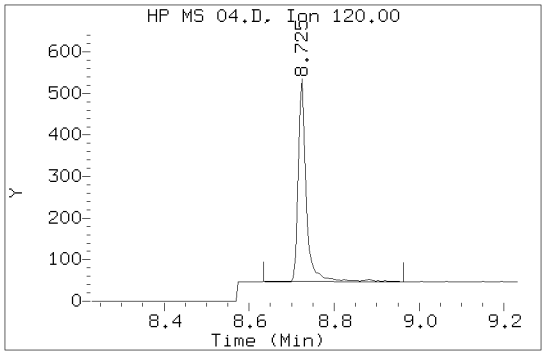
BEFORE

MASS
120
AREA
328
HEIGHT
48
19-Jun-2024
13:43
ALSHS
Server



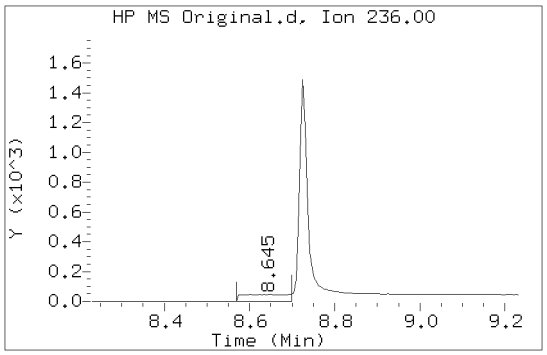
AFTER

MASS
120
AREA
629
HEIGHT
487
15-Jul-2024
09:40
ALSHS



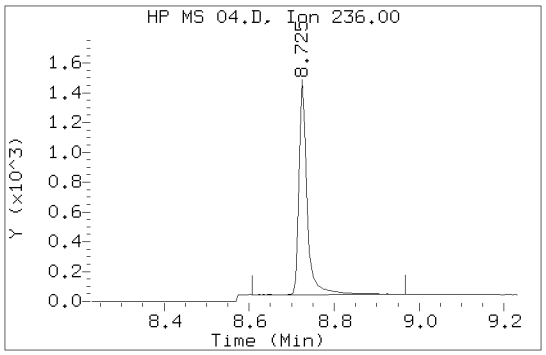
BEFORE

MASS
236
AREA
351
HEIGHT
47
19-Jun-2024
13:43
ALSHS
Server



AFTER

MASS
236
AREA
1886
HEIGHT
1442
15-Jul-2024
09:40
ALSHS

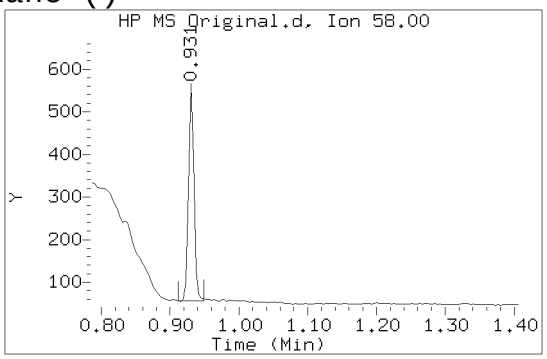


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Inj Date : 19-JUN-2024 13:27
InstruID : SV6.i
LabSampID : 14DX-0.08

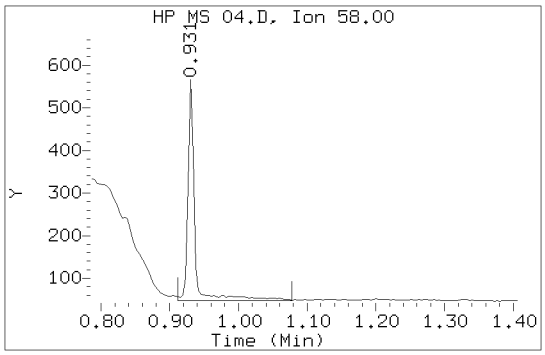
1,4-Dioxane ()

Reason Code:

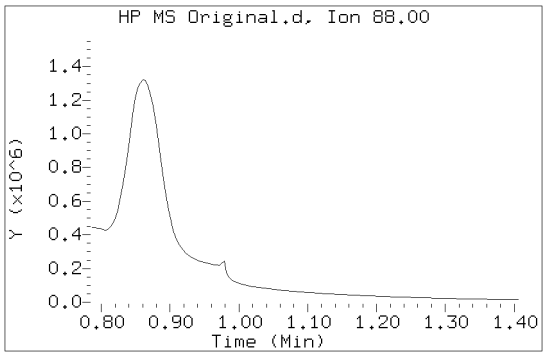
BEFORE
MASS
58
AREA
275
HEIGHT
509
19-Jun-2024
13:43
ALSHS
Server



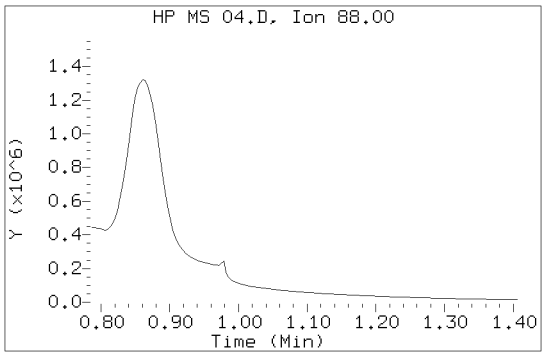
AFTER
MASS
58
AREA
360
HEIGHT
519
15-Jul-2024
09:40
ALSHS



BEFORE
MASS
88
AREA
0
HEIGHT
0
19-Jun-2024
13:43
ALSHS
Server



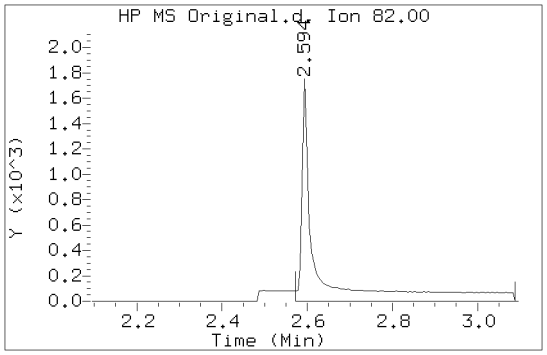
AFTER
MASS
88
AREA
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HEIGHT
0
15-Jul-2024
09:40
ALSHS



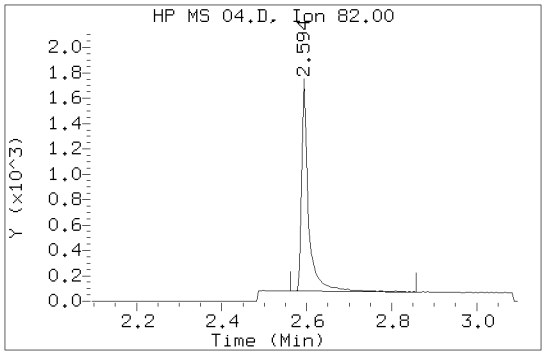
Nitrobenzene-d5 (4165-60-0)

Reason Code:

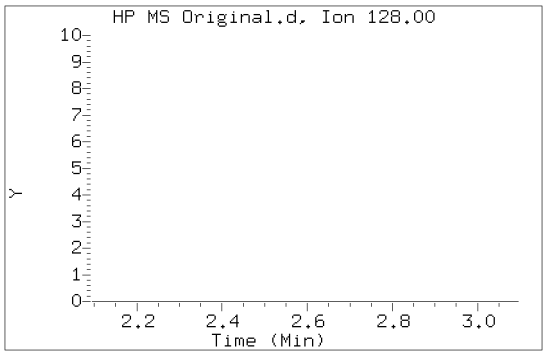
BEFORE
MASS
82
AREA
4163
HEIGHT
1752
19-Jun-2024
13:43
ALSHS
Server



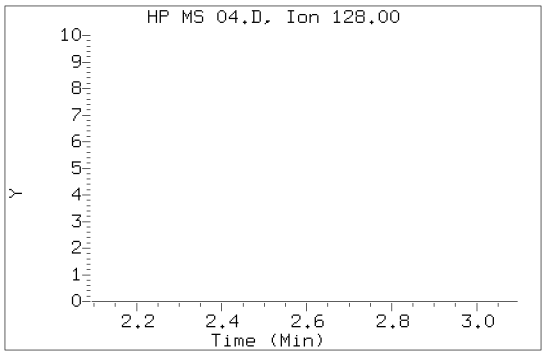
AFTER
MASS
82
AREA
1911
HEIGHT
1673
15-Jul-2024
09:40
ALSHS



BEFORE
MASS
128
AREA
0
HEIGHT
0
19-Jun-2024
13:43
ALSHS
Server



AFTER
MASS
128
AREA
0
HEIGHT
0
15-Jul-2024
09:40
ALSHS

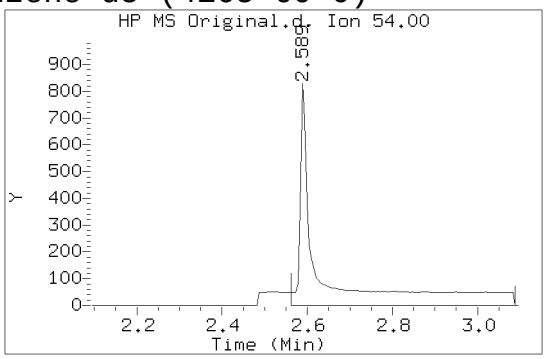


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Inj Date : 19-JUN-2024 13:27
InstruID : SV6.i
LabSampID : 14DX-0.08

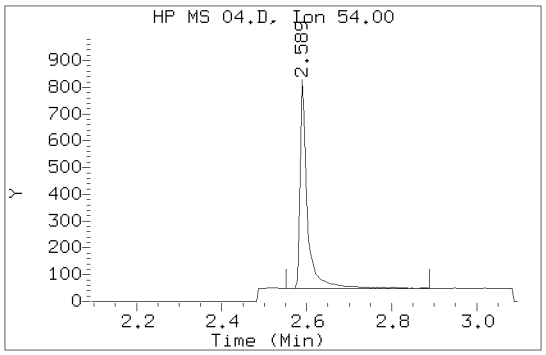
Nitrobenzene-d5 (4165-60-0)

Reason Code:

BEFORE
MASS
54
AREA
2469
HEIGHT
828
19-Jun-2024
13:43
ALSHS
Server



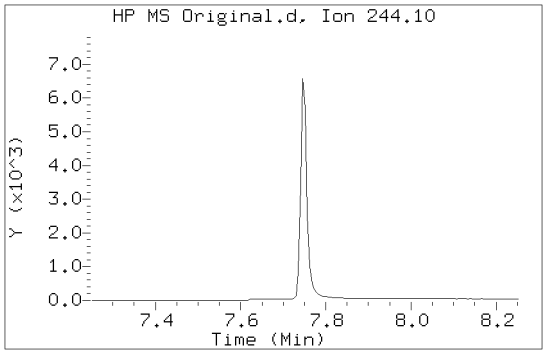
AFTER
MASS
54
AREA
926
HEIGHT
779
15-Jul-2024
09:40
ALSHS



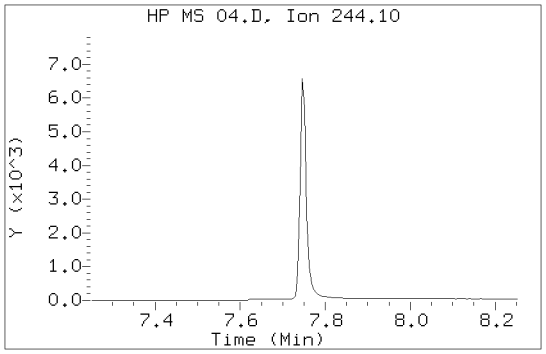
4-Terphenyl-d14 (1718-51-0)

Reason Code:

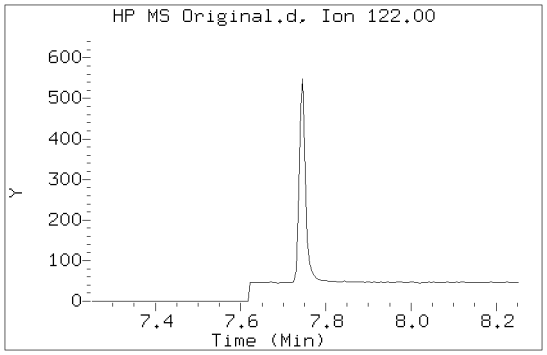
BEFORE
MASS
244.1
AREA
0
HEIGHT
0
19-Jun-2024
13:43
ALSHS
Server



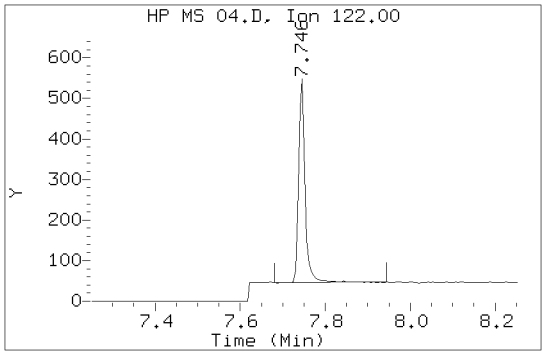
AFTER
MASS
244.1
AREA
9627
HEIGHT
6575
15-Jul-2024
09:40
ALSHS



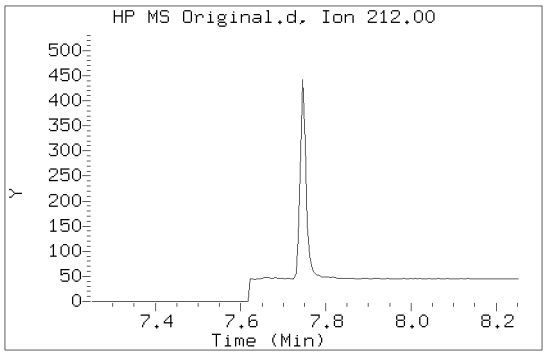
BEFORE
MASS
122
AREA
0
HEIGHT
0
19-Jun-2024
13:43
ALSHS
Server



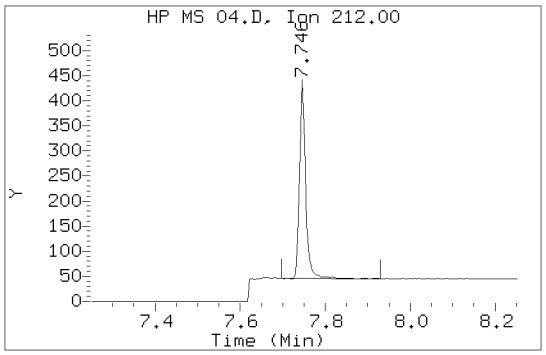
AFTER
MASS
122
AREA
523
HEIGHT
501
15-Jul-2024
09:40
ALSHS



BEFORE
MASS
212
AREA
0
HEIGHT
0
19-Jun-2024
13:43
ALSHS
Server



AFTER
MASS
212
AREA
397
HEIGHT
396
15-Jul-2024
09:40
ALSHS

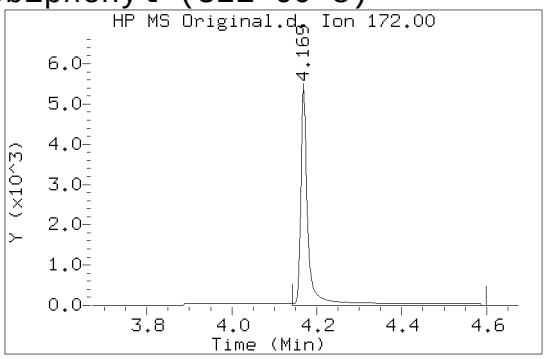


Data File : \\NAHSTWS005\Target\chem\SV6.i\240619.b\04.D
Inj Date : 19-JUN-2024 13:27
InstruID : SV6.i
LabSampID : 14DX-0.08

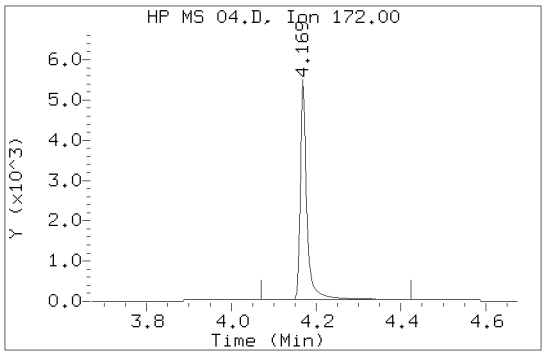
2-Fluorobiphenyl (321-60-8)

Reason Code:

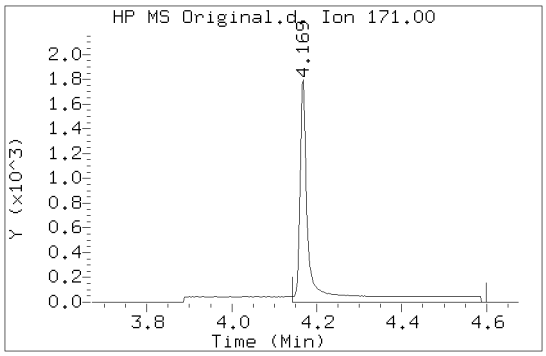
BEFORE
MASS
172
AREA
7187
HEIGHT
5504
19-Jun-2024
13:43
ALSHS
Server



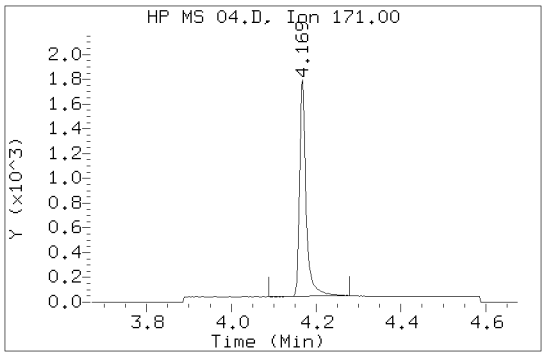
AFTER
MASS
172
AREA
5856
HEIGHT
5457
15-Jul-2024
09:40
ALSHS



BEFORE
MASS
171
AREA
3204
HEIGHT
1795
19-Jun-2024
13:43
ALSHS
Server



AFTER
MASS
171
AREA
1897
HEIGHT
1746
15-Jul-2024
09:40
ALSHS



Data File: \\NAHSTWS005\Target\chem\SV6.i\240619.b\07.D Page 1
Report Date: 20-Jun-2024 08:49

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240619.b\07.D
Lab Smp Id: MBLK-213147
Inj Date : 19-JUN-2024 14:56
Operator : LG Inst ID: SV6.i
Smp Info : MBLK-213147
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240619.b\DXSIM.m
Meth Date : 19-Jun-2024 13:45 marco.guti Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 7 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	2.191	2.186	(1.000)	2551	0.10000	(aM)
* 45 Naphthalene-d8	136	3.176	3.176	(1.000)	8158	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.594	2.594	(0.817)	1482	0.06051	0.06051(M)
* 86 Acenaphthene-d10	164	4.776	4.776	(1.000)	4867	0.10000	
$ 69 2-Fluorobiphenyl	172	4.168	4.168	(0.873)	4898	0.06583	0.06583(M)
* 126 Phenanthrene-d10	188	6.181	6.181	(1.000)	9238	0.10000	(M)
* 182 Chrysene-d12	240	8.730	8.725	(1.000)	8140	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.751	7.746	(0.888)	10821	0.06526	0.06526(M)
* 198 Perylene-d12	264	10.371	10.365	(1.000)	7922	0.10000	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240619.b\07.D

Date : 19-JUN-2024 14:56

Client ID:

Instrument: SV6.i

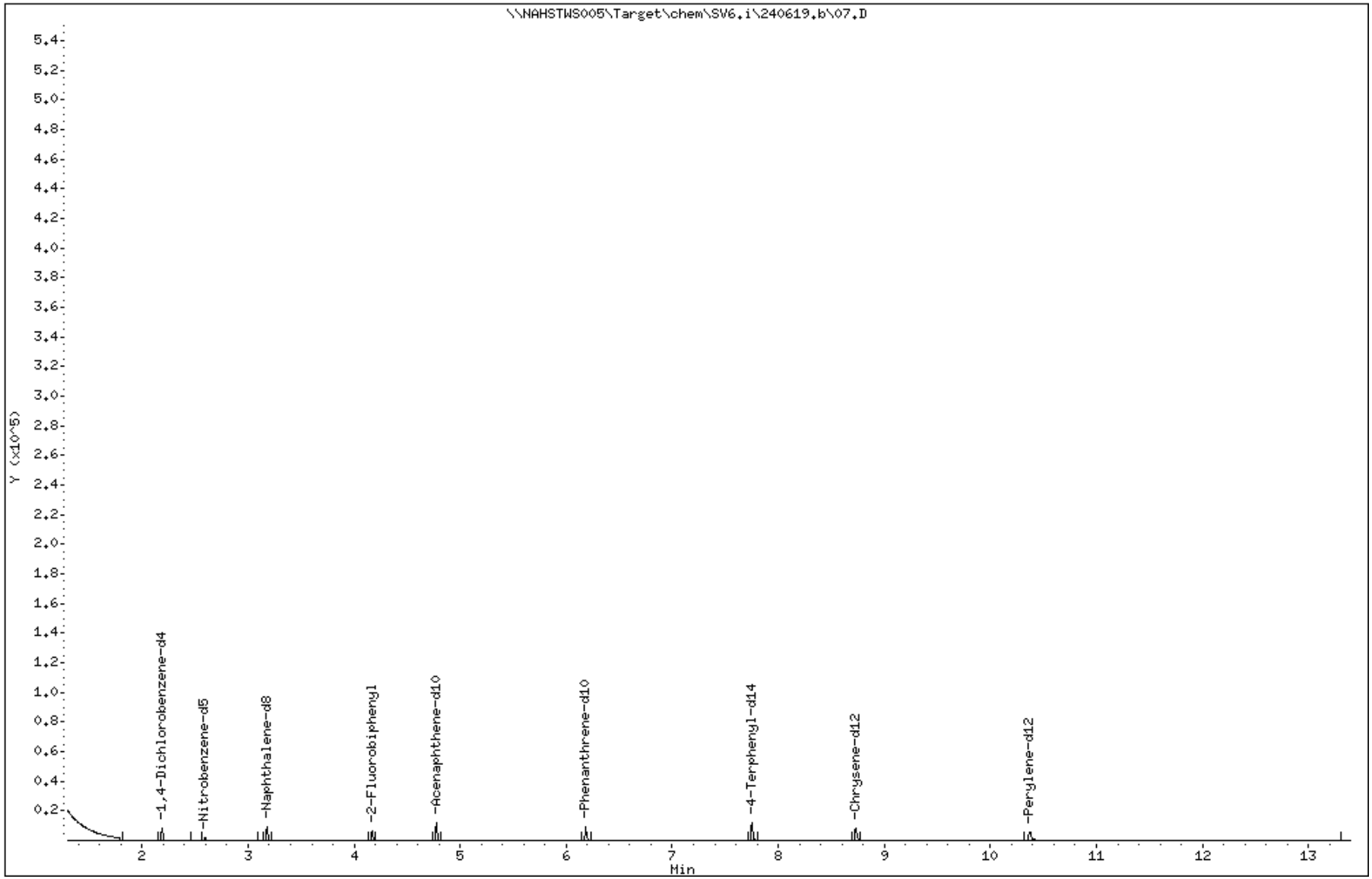
Sample Info: MBLK-213147

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

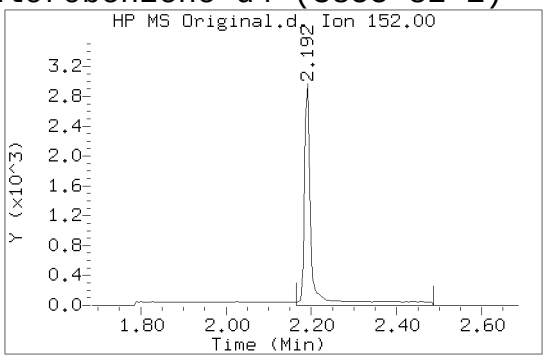


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Inj Date : 19-JUN-2024 14:56
InstruID : SV6.i
LabSampID : MBLK-213147

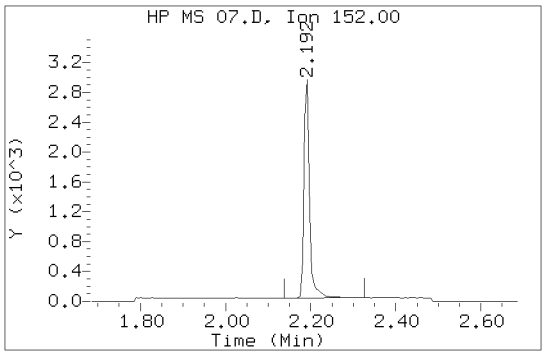
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

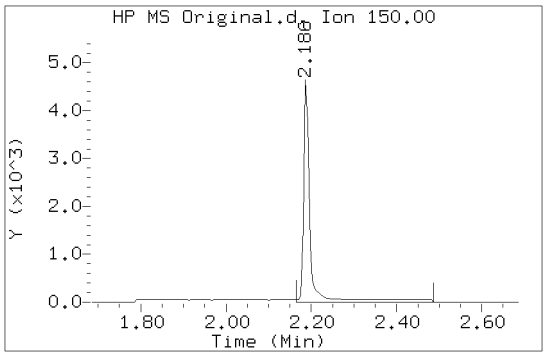
BEFORE
MASS
152
AREA
3488
HEIGHT
2970
19-Jun-2024
15:10
ALSHS
Server



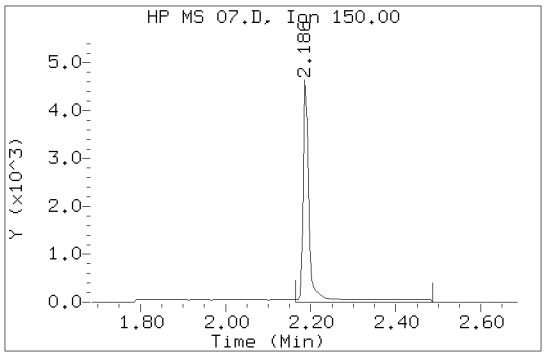
AFTER
MASS
152
AREA
2551
HEIGHT
2922
20-Jun-2024
08:49



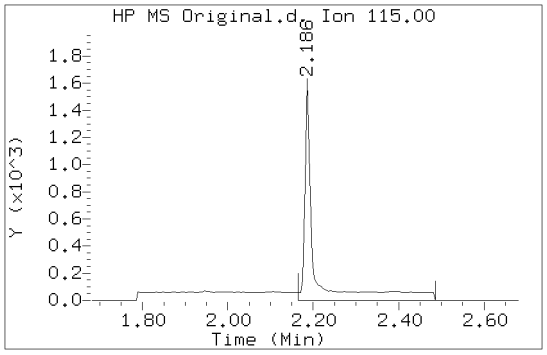
BEFORE
MASS
150
AREA
4950
HEIGHT
4641
19-Jun-2024
15:10
ALSHS
Server



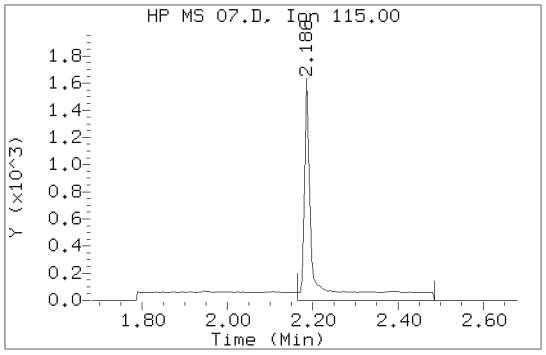
AFTER
MASS
150
AREA
4950
HEIGHT
4641
20-Jun-2024
08:49



BEFORE
MASS
115
AREA
2428
HEIGHT
1633
19-Jun-2024
15:10
ALSHS
Server



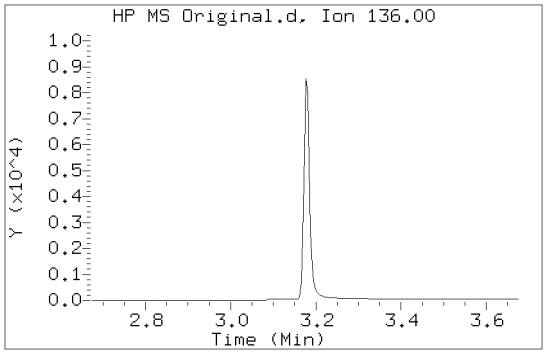
AFTER
MASS
115
AREA
2428
HEIGHT
1633
20-Jun-2024
08:49



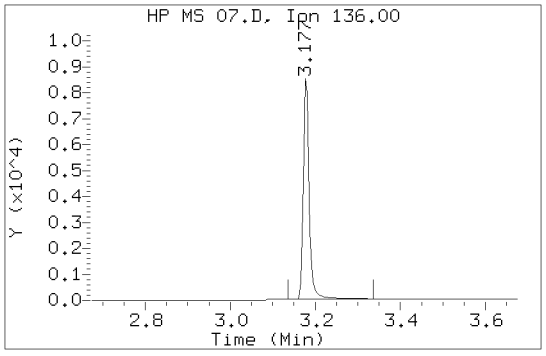
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
0
HEIGHT
0
19-Jun-2024
15:10
ALSHS
Server



AFTER
MASS
136
AREA
8158
HEIGHT
8491
20-Jun-2024
08:49



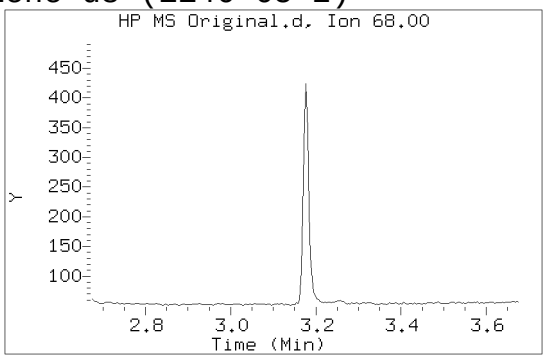
Data File : \\NAHSTWS005\Target\chem\SV6.i\240619.b\07.D
Inj Date : 19-JUN-2024 14:56
InstruID : SV6.i
LabSampID : MBLK-213147

Naphthalene-d8 (1146-65-2)

Reason Code:

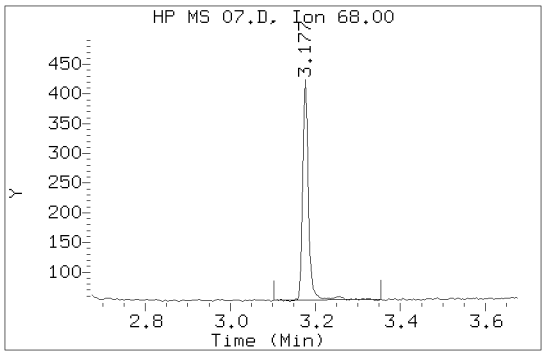
BEFORE

MASS
68
AREA
0
HEIGHT
0
19-Jun-2024
15:10
ALSHS
Server



AFTER

MASS
68
AREA
348
HEIGHT
370
20-Jun-2024
08:49

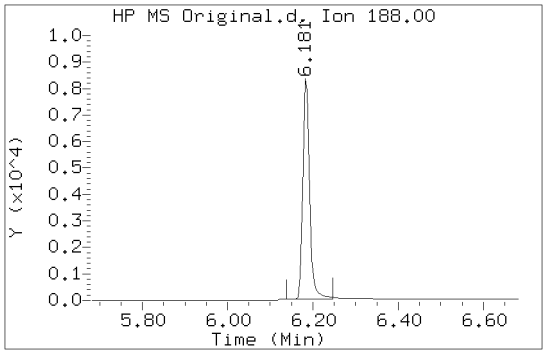


Phenanthrene-d10 (1517-22-2)

Reason Code:

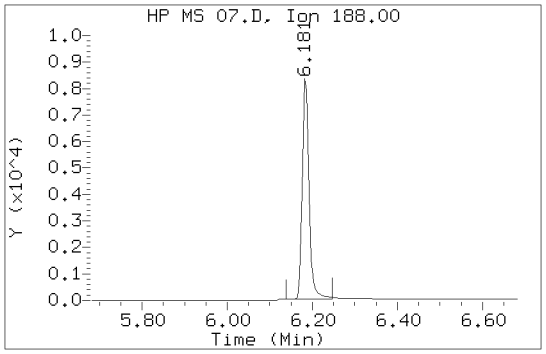
BEFORE

MASS
188
AREA
9238
HEIGHT
8326
19-Jun-2024
15:10
ALSHS
Server



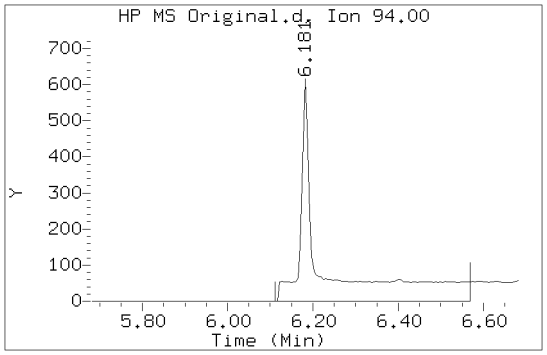
AFTER

MASS
188
AREA
9238
HEIGHT
8326
20-Jun-2024
08:49



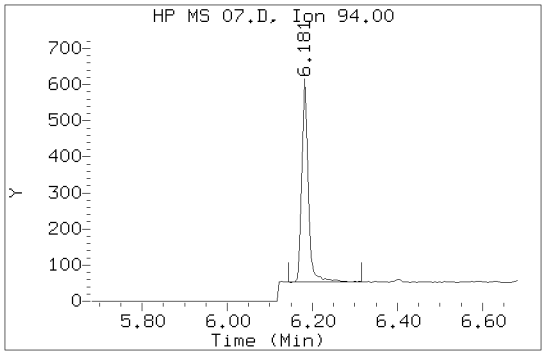
BEFORE

MASS
94
AREA
2041
HEIGHT
616
19-Jun-2024
15:10
ALSHS
Server



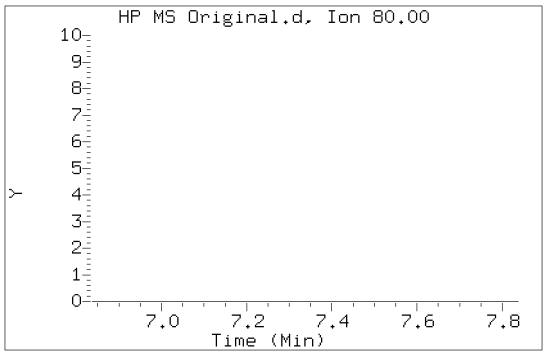
AFTER

MASS
94
AREA
583
HEIGHT
562
20-Jun-2024
08:49



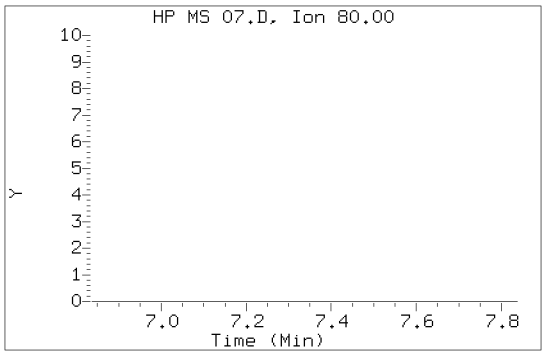
BEFORE

MASS
80
AREA
0
HEIGHT
0
19-Jun-2024
15:10
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
20-Jun-2024
08:49

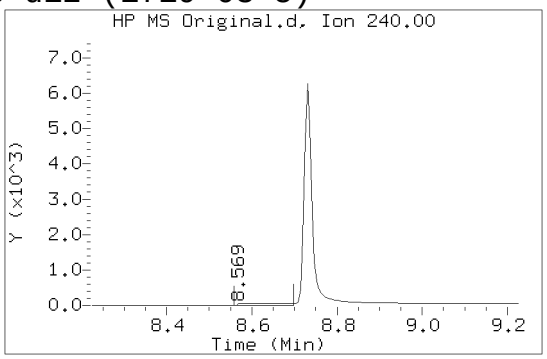


Data File : \\NAHSTWS005\Target\chem\SV6.i\240619.b\07.D
Inj Date : 19-JUN-2024 14:56
InstruID : SV6.i
LabSampID : MBLK-213147

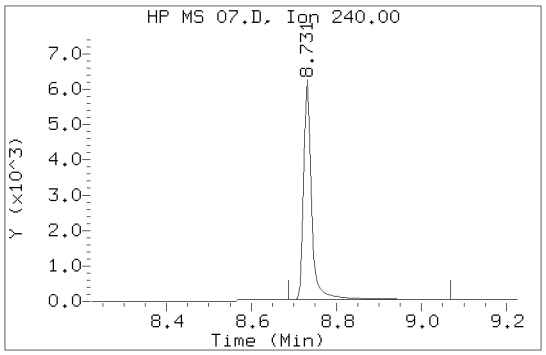
Chrysene-d12 (1719-03-5)

Reason Code:

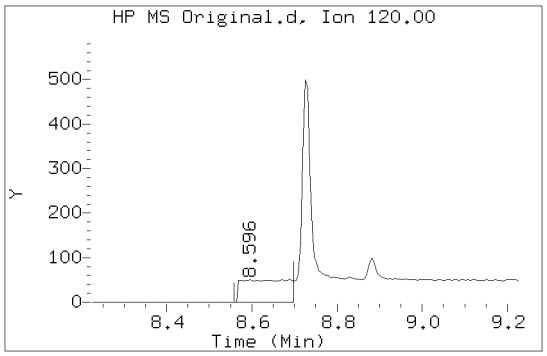
BEFORE
MASS
240
AREA
373
HEIGHT
47
19-Jun-2024
15:10
ALSHS
Server



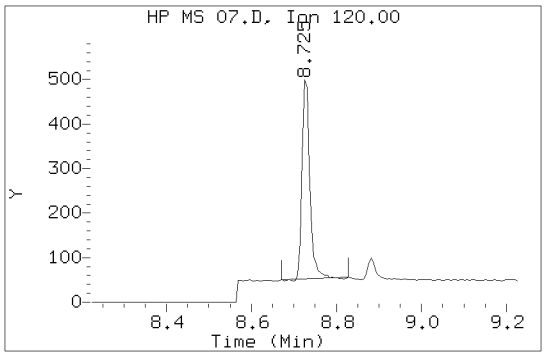
AFTER
MASS
240
AREA
8140
HEIGHT
6222
20-Jun-2024
08:49



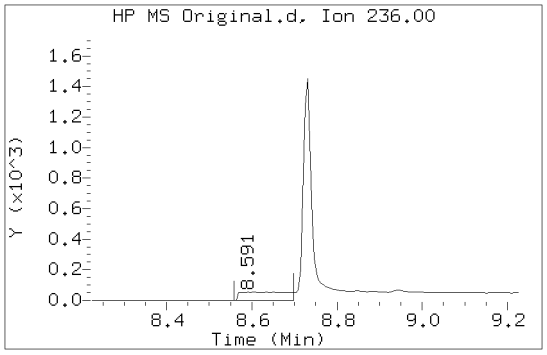
BEFORE
MASS
120
AREA
393
HEIGHT
50
19-Jun-2024
15:10
ALSHS
Server



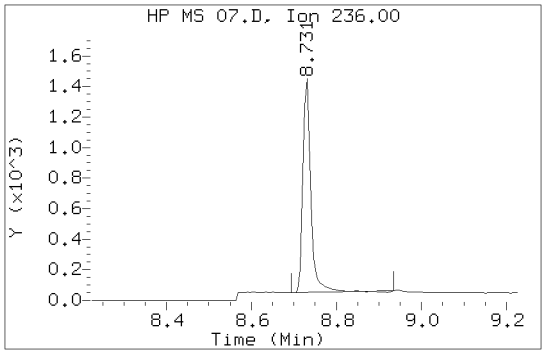
AFTER
MASS
120
AREA
556
HEIGHT
446
20-Jun-2024
08:49



BEFORE
MASS
236
AREA
414
HEIGHT
53
19-Jun-2024
15:10
ALSHS
Server



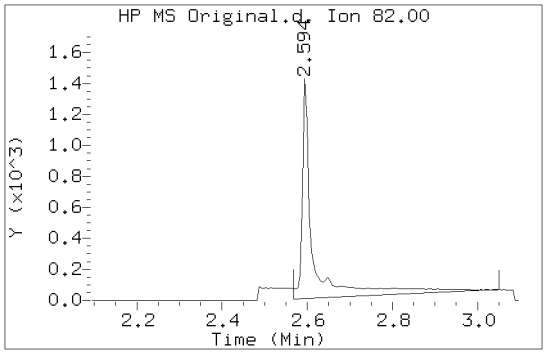
AFTER
MASS
236
AREA
1783
HEIGHT
1399
20-Jun-2024
08:49



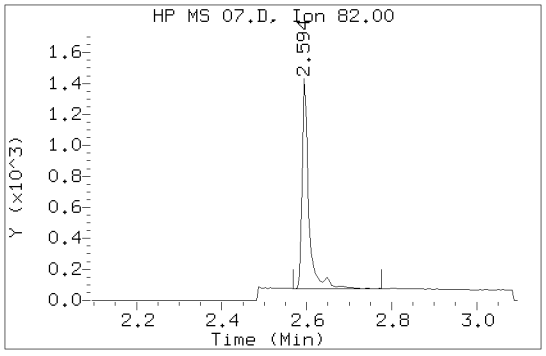
Nitrobenzene-d5 (4165-60-0)

Reason Code:

BEFORE
MASS
82
AREA
2450
HEIGHT
1417
19-Jun-2024
15:10
ALSHS
Server



AFTER
MASS
82
AREA
1482
HEIGHT
1355
20-Jun-2024
08:49

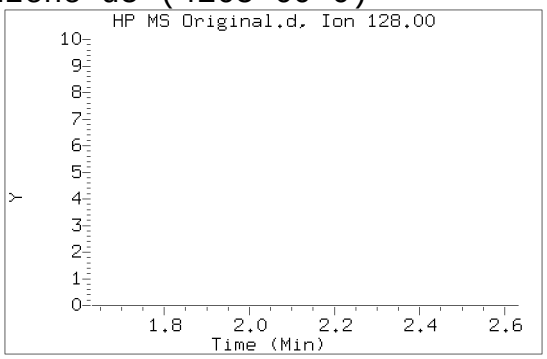


Data File : \\NAHSTWS005\Target\chem\SV6.i\240619.b\07.D
Inj Date : 19-JUN-2024 14:56
InstruID : SV6.i
LabSampID : MBLK-213147

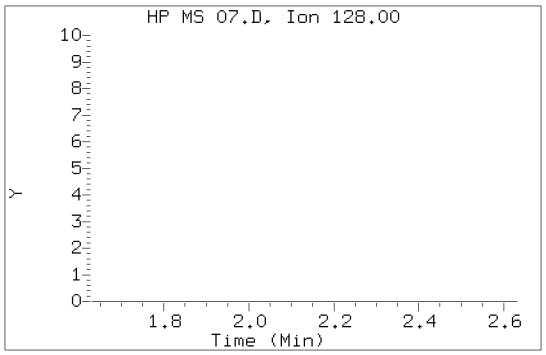
Nitrobenzene-d5 (4165-60-0)

Reason Code:

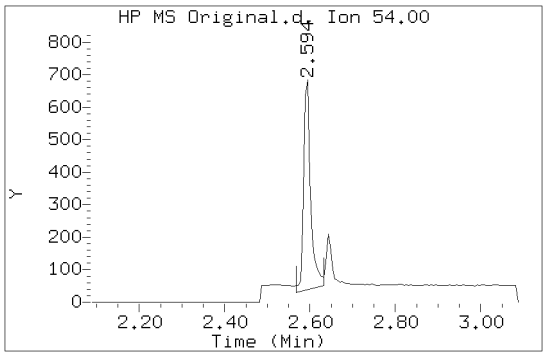
BEFORE
MASS
128
AREA
0
HEIGHT
0
19-Jun-2024
15:10
ALSHS
Server



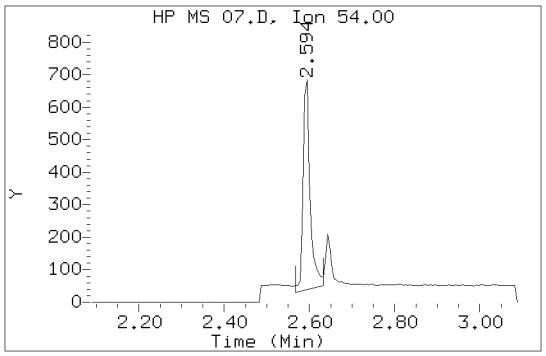
AFTER
MASS
128
AREA
0
HEIGHT
0
20-Jun-2024
08:49



BEFORE
MASS
54
AREA
733
HEIGHT
645
19-Jun-2024
15:10
ALSHS
Server



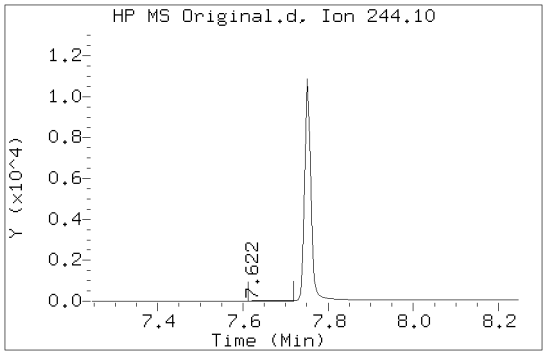
AFTER
MASS
54
AREA
733
HEIGHT
645
20-Jun-2024
08:49



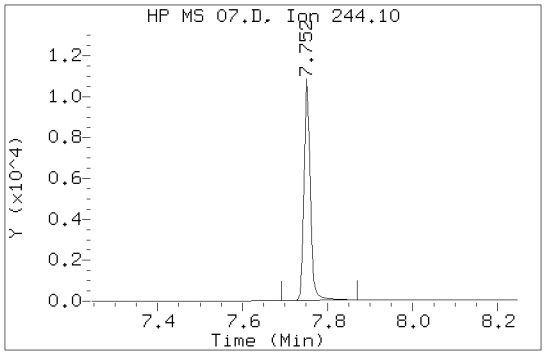
4-Terphenyl-d14 (1718-51-0)

Reason Code:

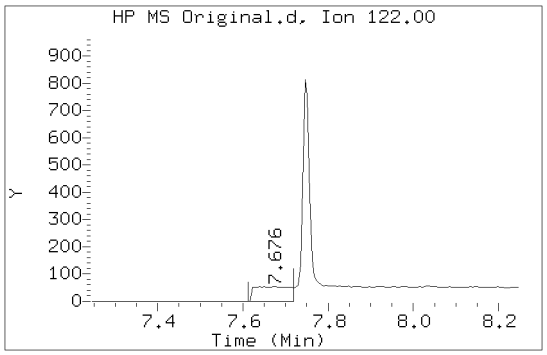
BEFORE
MASS
244.1
AREA
284
HEIGHT
47
19-Jun-2024
15:10
ALSHS
Server



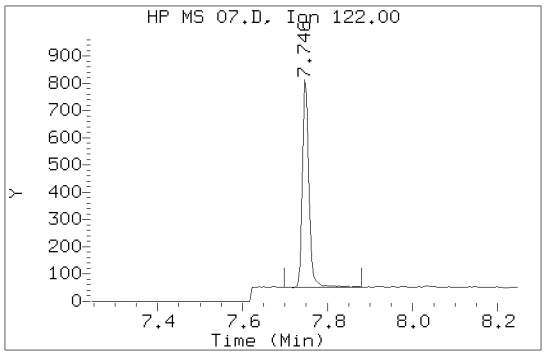
AFTER
MASS
244.1
AREA
10821
HEIGHT
10813
20-Jun-2024
08:49



BEFORE
MASS
122
AREA
317
HEIGHT
54
19-Jun-2024
15:10
ALSHS
Server



AFTER
MASS
122
AREA
815
HEIGHT
761
20-Jun-2024
08:49



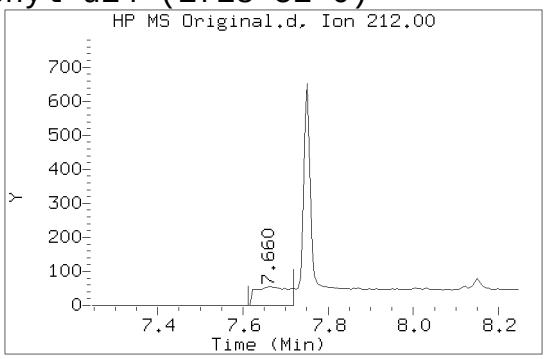
Data File : \\NAHSTWS005\Target\chem\SV6.i\240619.b\07.D
Inj Date : 19-JUN-2024 14:56
InstruID : SV6.i
LabSampID : MBLK-213147

4-Terphenyl-d14 (1718-51-0)

Reason Code:

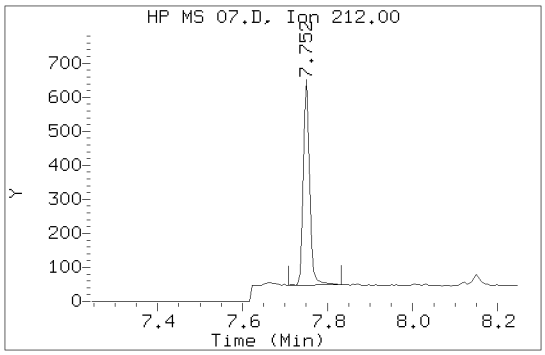
BEFORE

MASS
212
AREA
305
HEIGHT
55
19-Jun-2024
15:10
ALSHS
Server



AFTER

MASS
212
AREA
616
HEIGHT
603
20-Jun-2024
08:49

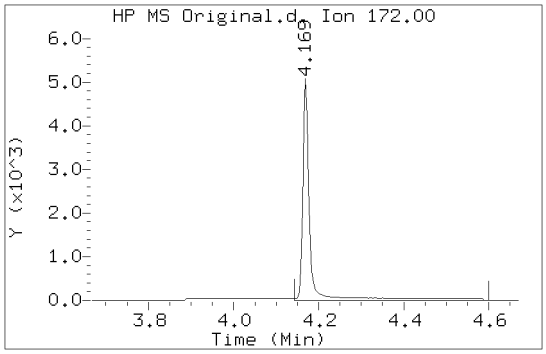


2-Fluorobiphenyl (321-60-8)

Reason Code:

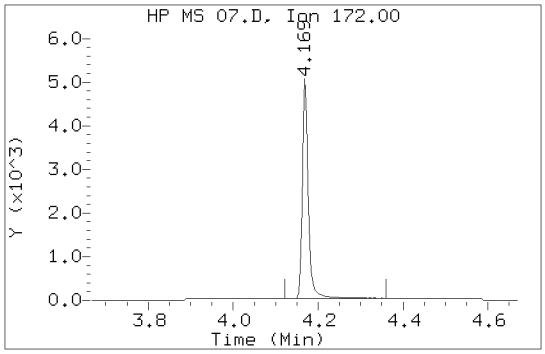
BEFORE

MASS
172
AREA
6243
HEIGHT
5080
19-Jun-2024
15:10
ALSHS
Server



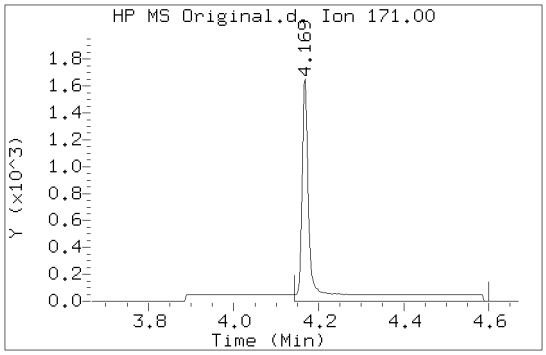
AFTER

MASS
172
AREA
4898
HEIGHT
5033
20-Jun-2024
08:49



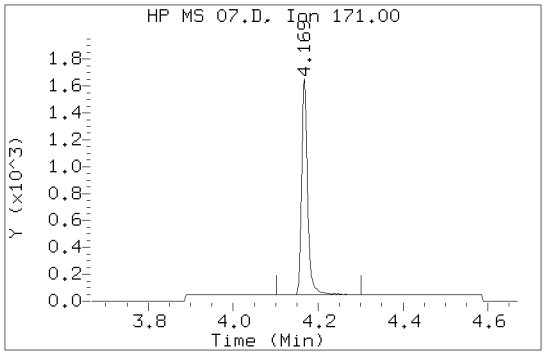
BEFORE

MASS
171
AREA
2901
HEIGHT
1653
19-Jun-2024
15:10
ALSHS
Server



AFTER

MASS
171
AREA
1606
HEIGHT
1605
20-Jun-2024
08:49



Data File: \\NAHSTWS005\Target\chem\SV6.i\240619.b\08.D Page 1
Report Date: 20-Jun-2024 08:50

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240619.b\08.D
Lab Smp Id: LCS-213147
Inj Date : 19-JUN-2024 15:14
Operator : LG Inst ID: SV6.i
Smp Info : LCS-213147
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240619.b\DXSIM.m
Meth Date : 19-Jun-2024 13:45 marco.guti Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 8 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	2.186	2.186	(1.000)	2154	0.10000	(aM)
* 45 Naphthalene-d8	136	3.176	3.176	(1.000)	6671	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.594	2.594	(0.817)	1644	0.08209	0.08209(M)
* 86 Acenaphthene-d10	164	4.776	4.776	(1.000)	4021	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.168	4.168	(0.873)	5071	0.08250	0.08250(M)
* 126 Phenanthrene-d10	188	6.181	6.181	(1.000)	7555	0.10000	(M)
* 182 Chrysene-d12	240	8.725	8.725	(1.000)	6422	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.746	7.746	(0.888)	11043	0.08441	0.08441(M)
* 198 Perylene-d12	264	10.371	10.365	(1.000)	6346	0.10000	
1 1,4-Dioxane	58	0.937	0.930	(0.429)	363	0.07868	0.07868(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240619.b\08.D

Date : 19-JUN-2024 15:14

Client ID:

Instrument: SV6.i

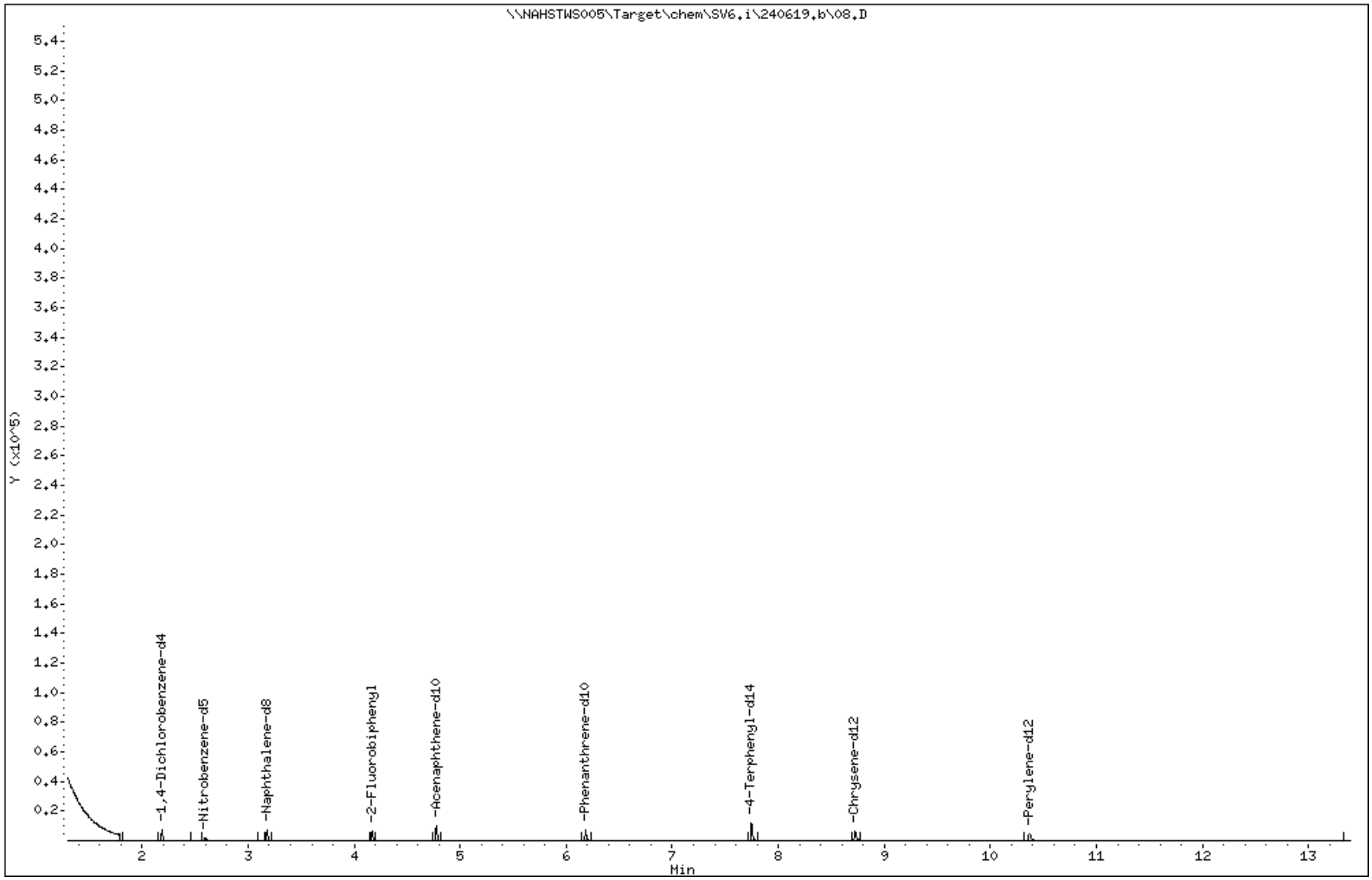
Sample Info: LCS-213147

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



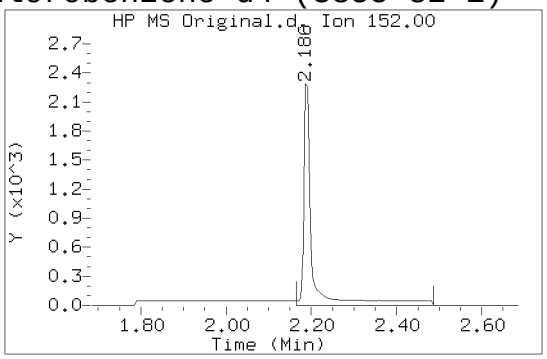
Data File : \\NAHSTWS005\Target\chem\SV6.i\240619.b\08.D
Inj Date : 19-JUN-2024 15:14
InstruID : SV6.i
LabSampID : LCS-213147

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

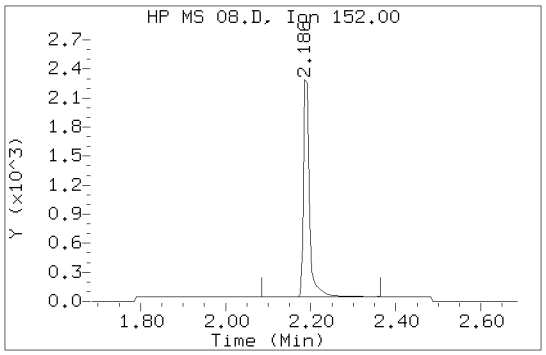
BEFORE

MASS
152
AREA
3077
HEIGHT
2289
19-Jun-2024
15:28
ALSHS
Server



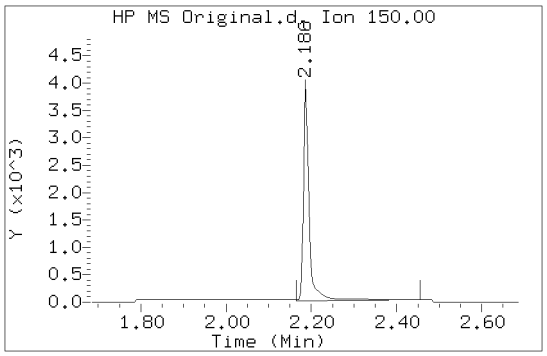
AFTER

MASS
152
AREA
2154
HEIGHT
2241
20-Jun-2024
08:50



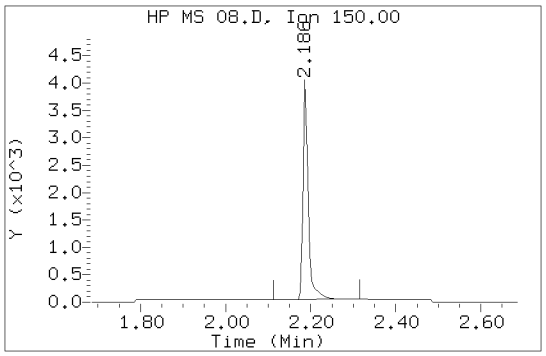
BEFORE

MASS
150
AREA
3600
HEIGHT
4030
19-Jun-2024
15:28
ALSHS
Server



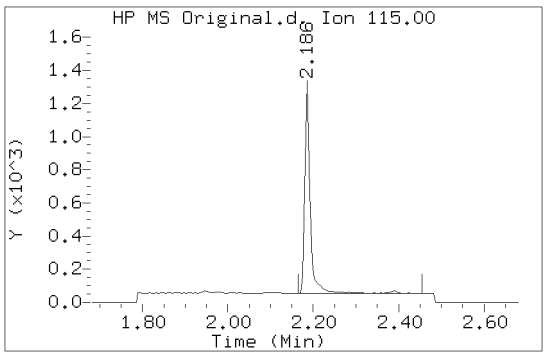
AFTER

MASS
150
AREA
3336
HEIGHT
4008
20-Jun-2024
08:50



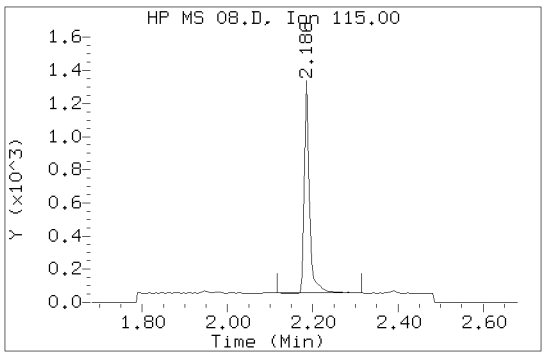
BEFORE

MASS
115
AREA
1119
HEIGHT
1284
19-Jun-2024
15:28
ALSHS
Server



AFTER

MASS
115
AREA
1047
HEIGHT
1280
20-Jun-2024
08:50

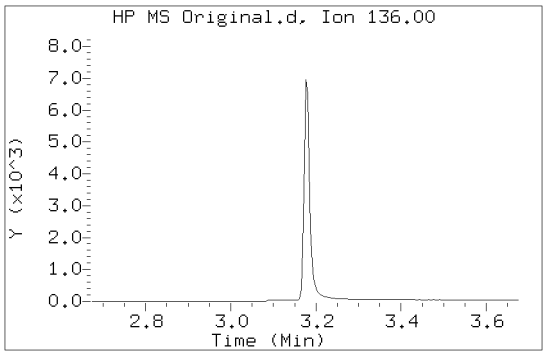


Naphthalene-d8 (1146-65-2)

Reason Code:

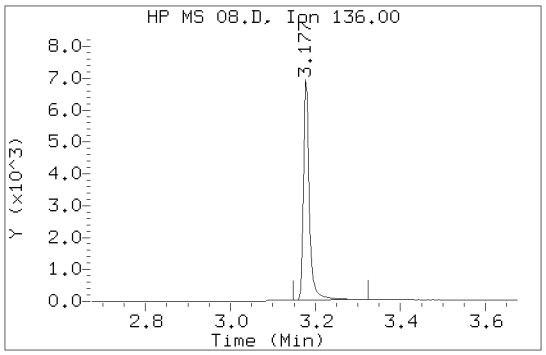
BEFORE

MASS
136
AREA
0
HEIGHT
0
19-Jun-2024
15:28
ALSHS
Server



AFTER

MASS
136
AREA
6671
HEIGHT
6905
20-Jun-2024
08:50



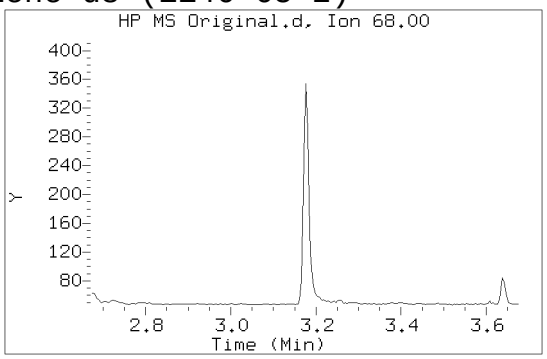
Data File : \\NAHSTWS005\Target\chem\SV6.i\240619.b\08.D
Inj Date : 19-JUN-2024 15:14
InstruID : SV6.i
LabSampID : LCS-213147

Naphthalene-d8 (1146-65-2)

Reason Code:

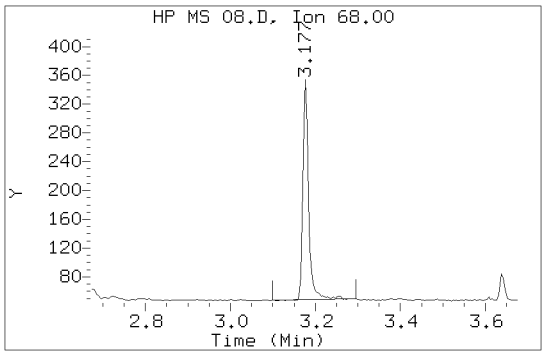
BEFORE

MASS
68
AREA
0
HEIGHT
0
19-Jun-2024
15:28
ALSHS
Server



AFTER

MASS
68
AREA
281
HEIGHT
305
20-Jun-2024
08:50

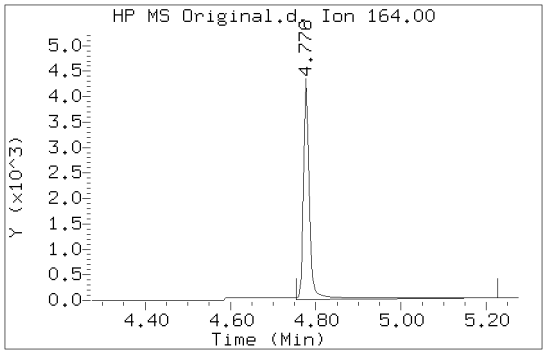


Acenaphthene-d10 (15067-26-2)

Reason Code:

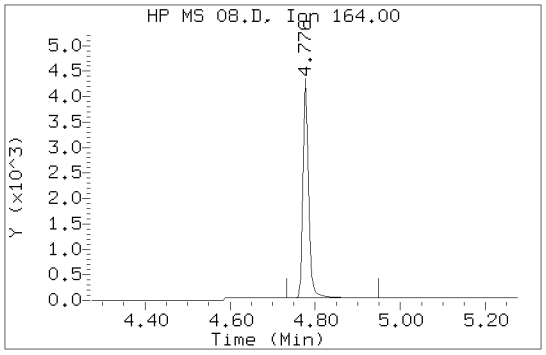
BEFORE

MASS
164
AREA
4550
HEIGHT
4338
19-Jun-2024
15:28
ALSHS
Server



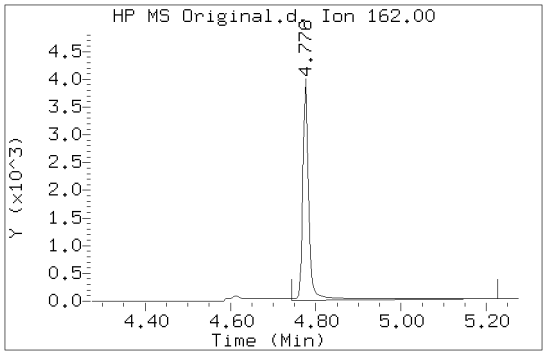
AFTER

MASS
164
AREA
4021
HEIGHT
4305
20-Jun-2024
08:50



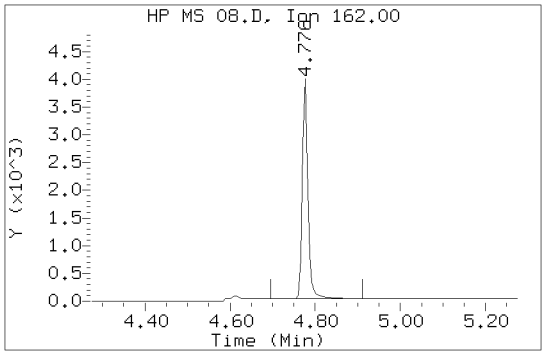
BEFORE

MASS
162
AREA
4214
HEIGHT
3994
19-Jun-2024
15:28
ALSHS
Server



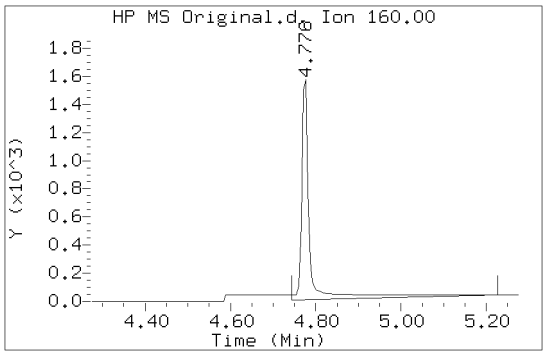
AFTER

MASS
162
AREA
3663
HEIGHT
3960
20-Jun-2024
08:50



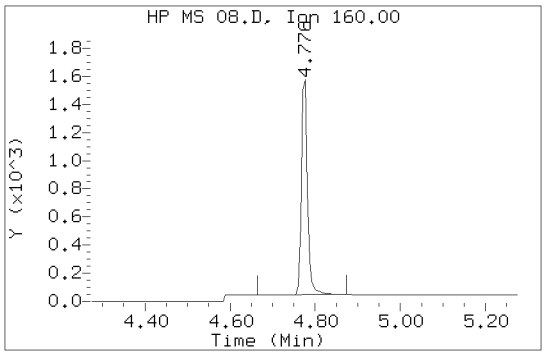
BEFORE

MASS
160
AREA
2065
HEIGHT
1562
19-Jun-2024
15:28
ALSHS
Server



AFTER

MASS
160
AREA
1533
HEIGHT
1529
20-Jun-2024
08:50



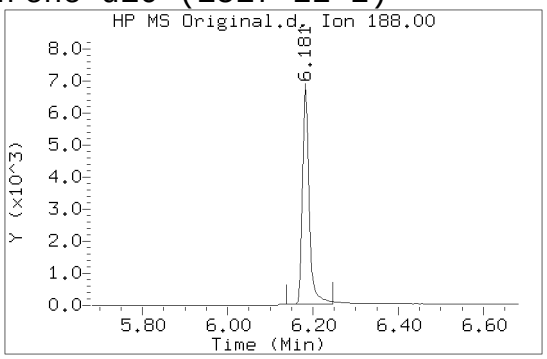
Data File : \\NAHSTWS005\Target\chem\SV6.i\240619.b\08.D
Inj Date : 19-JUN-2024 15:14
InstruID : SV6.i
LabSampID : LCS-213147

Phenanthrene-d10 (1517-22-2)

Reason Code:

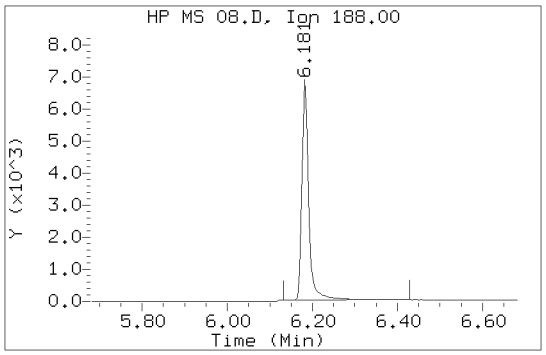
BEFORE

MASS
188
AREA
7394
HEIGHT
6880
19-Jun-2024
15:28
ALSHS
Server



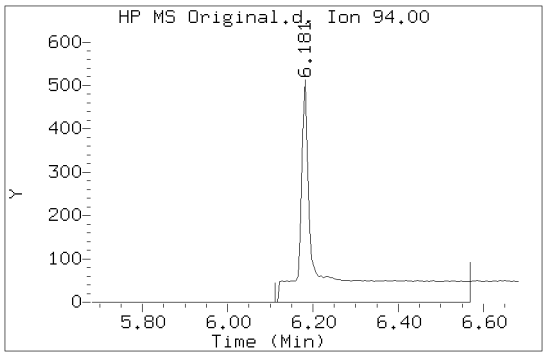
AFTER

MASS
188
AREA
7555
HEIGHT
6879
20-Jun-2024
08:50



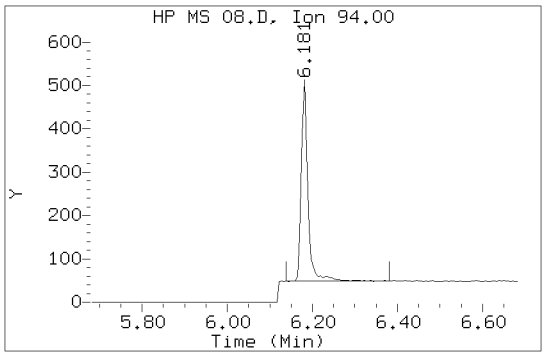
BEFORE

MASS
94
AREA
1815
HEIGHT
513
19-Jun-2024
15:28
ALSHS
Server



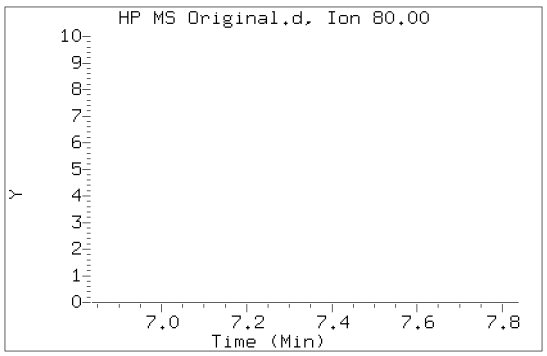
AFTER

MASS
94
AREA
491
HEIGHT
464
20-Jun-2024
08:50



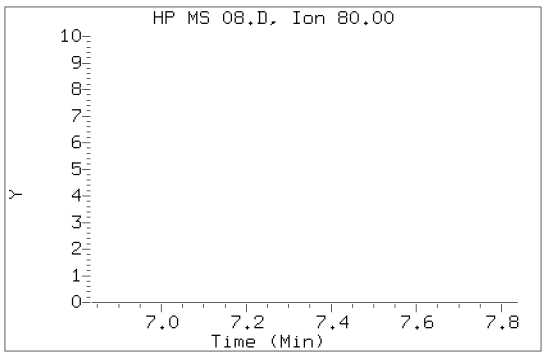
BEFORE

MASS
80
AREA
0
HEIGHT
0
19-Jun-2024
15:28
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
20-Jun-2024
08:50

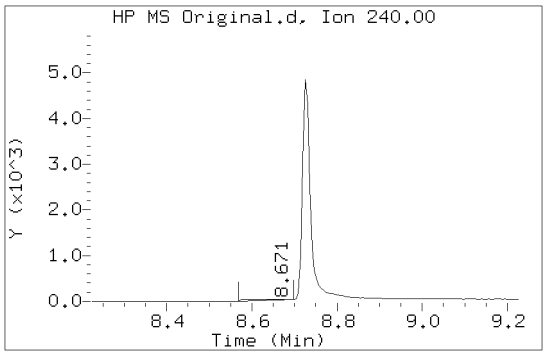


Chrysene-d12 (1719-03-5)

Reason Code:

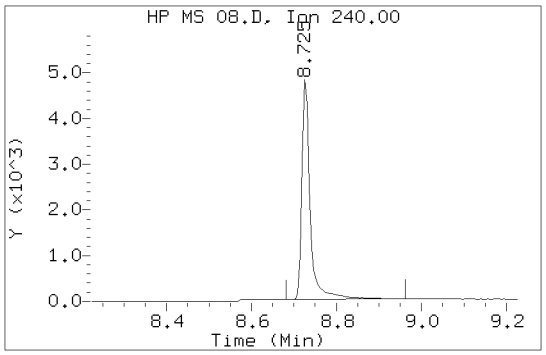
BEFORE

MASS
240
AREA
163
HEIGHT
9
19-Jun-2024
15:28
ALSHS
Server



AFTER

MASS
240
AREA
6422
HEIGHT
4802
20-Jun-2024
08:50

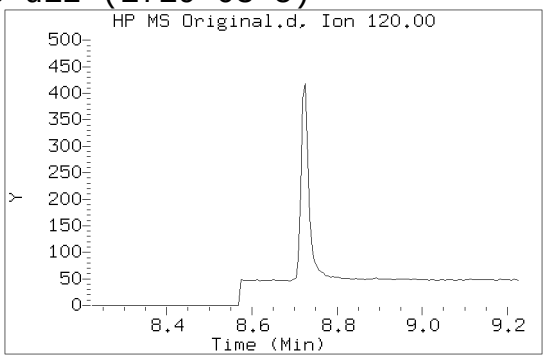


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Inj Date : 19-JUN-2024 15:14
InstruID : SV6.i
LabSampID : LCS-213147

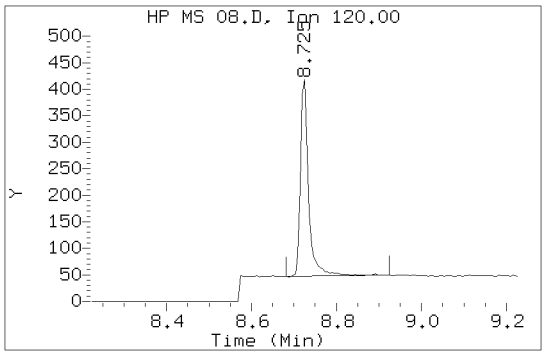
Chrysene-d12 (1719-03-5)

Reason Code:

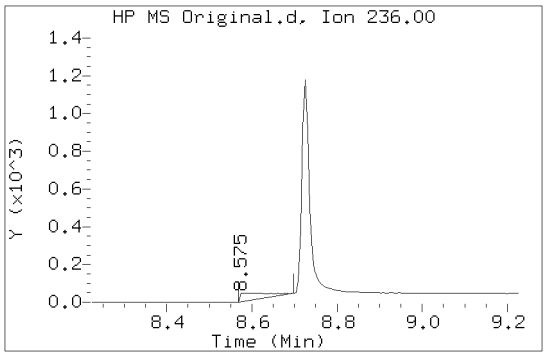
BEFORE
MASS
120
AREA
0
HEIGHT
0
19-Jun-2024
15:28
ALSHS
Server



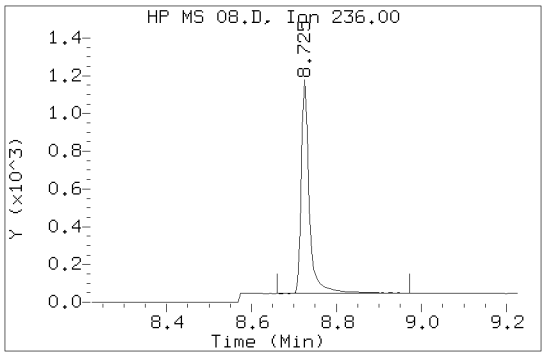
AFTER
MASS
120
AREA
489
HEIGHT
370
20-Jun-2024
08:50



BEFORE
MASS
236
AREA
168
HEIGHT
44
19-Jun-2024
15:28
ALSHS
Server



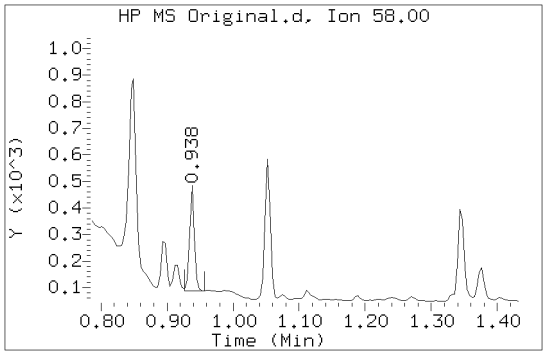
AFTER
MASS
236
AREA
1478
HEIGHT
1131
20-Jun-2024
08:50



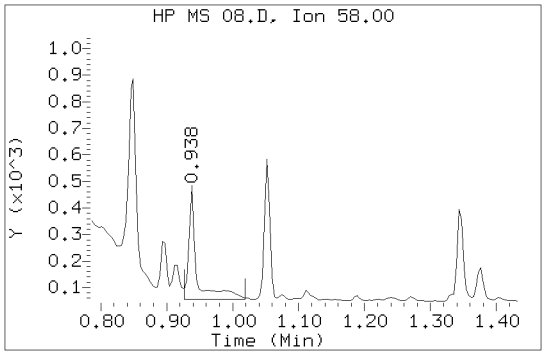
1,4-Dioxane ()

Reason Code:

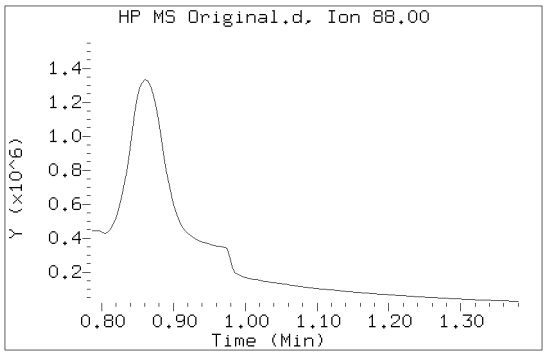
BEFORE
MASS
58
AREA
203
HEIGHT
397
19-Jun-2024
15:28
ALSHS
Server



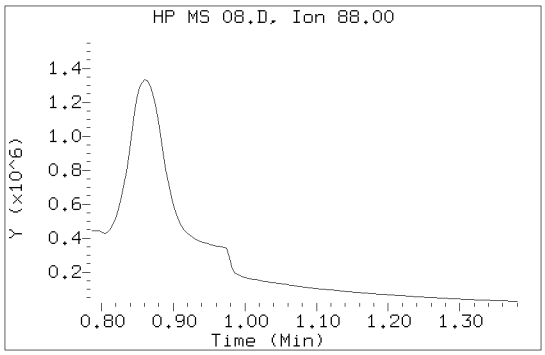
AFTER
MASS
58
AREA
363
HEIGHT
429
20-Jun-2024
08:50



BEFORE
MASS
88
AREA
8202720
HEIGHT
1308384
19-Jun-2024
15:28
ALSHS
Server



AFTER
MASS
88
AREA
8202720
HEIGHT
1308384
20-Jun-2024
08:50



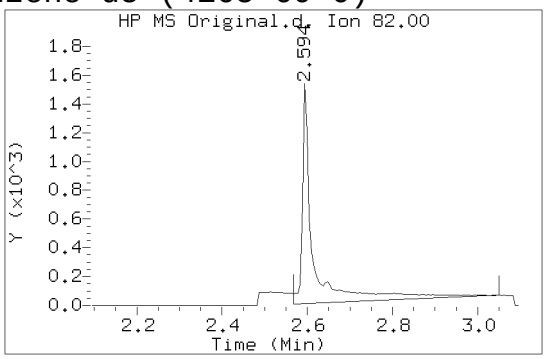
Data File : \\NAHSTWS005\Target\chem\SV6.i\240619.b\08.D
Inj Date : 19-JUN-2024 15:14
InstruID : SV6.i
LabSampID : LCS-213147

Nitrobenzene-d5 (4165-60-0)

Reason Code:

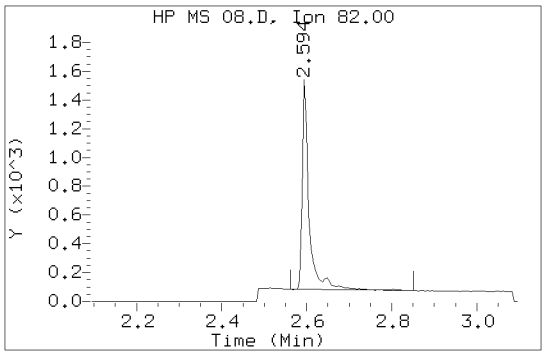
BEFORE

MASS
82
AREA
2693
HEIGHT
1527
19-Jun-2024
15:28
ALSHS
Server



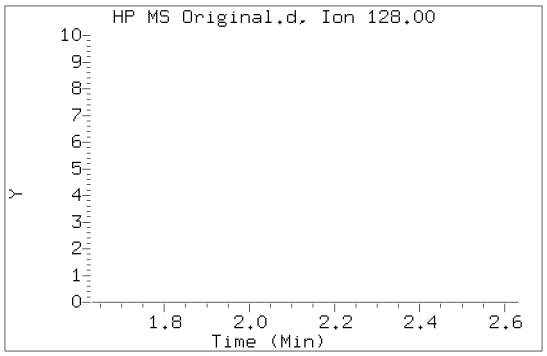
AFTER

MASS
82
AREA
1644
HEIGHT
1458
20-Jun-2024
08:50



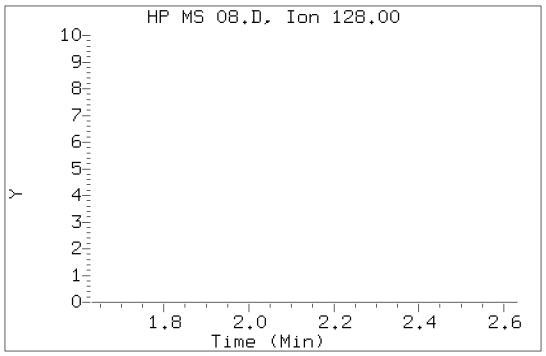
BEFORE

MASS
128
AREA
0
HEIGHT
0
19-Jun-2024
15:28
ALSHS
Server



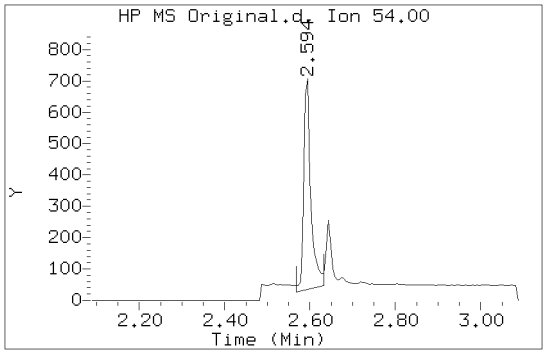
AFTER

MASS
128
AREA
0
HEIGHT
0
20-Jun-2024
08:50



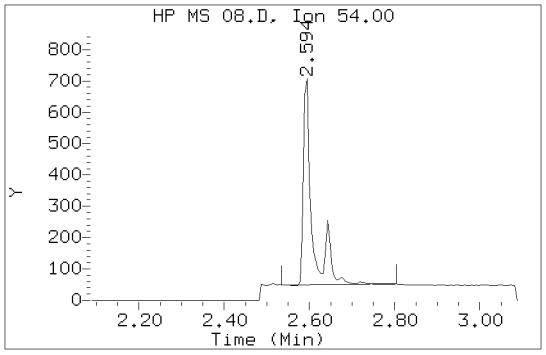
BEFORE

MASS
54
AREA
770
HEIGHT
671
19-Jun-2024
15:28
ALSHS
Server



AFTER

MASS
54
AREA
903
HEIGHT
656
20-Jun-2024
08:50

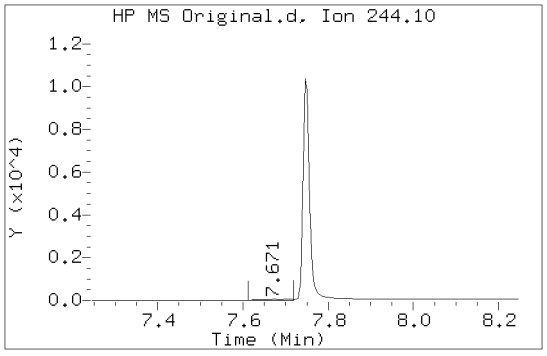


4-Terphenyl-d14 (1718-51-0)

Reason Code:

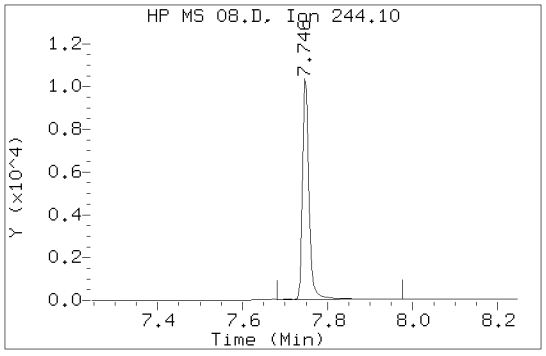
BEFORE

MASS
244.1
AREA
271
HEIGHT
45
19-Jun-2024
15:28
ALSHS
Server



AFTER

MASS
244.1
AREA
11043
HEIGHT
10318
20-Jun-2024
08:50



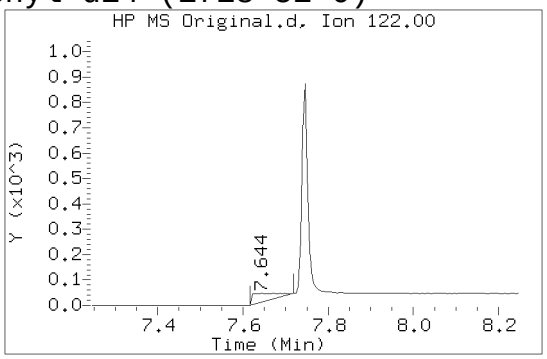
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Inj Date : 19-JUN-2024 15:14
InstruID : SV6.i
LabSampID : LCS-213147

4-Terphenyl-d14 (1718-51-0)

Reason Code:

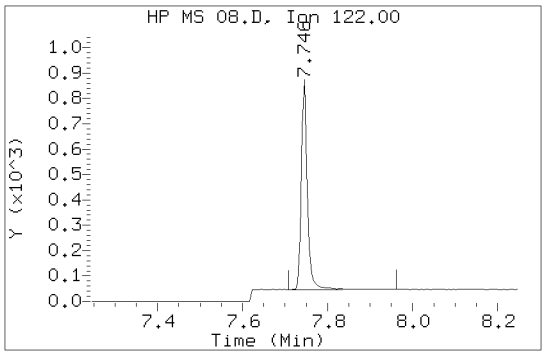
BEFORE

MASS
122
AREA
131
HEIGHT
34
19-Jun-2024
15:28
ALSHS
Server



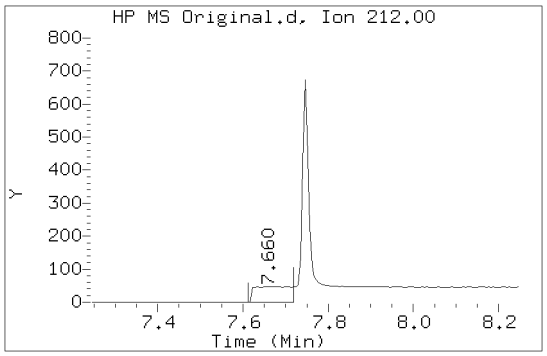
AFTER

MASS
122
AREA
829
HEIGHT
827
20-Jun-2024
08:50



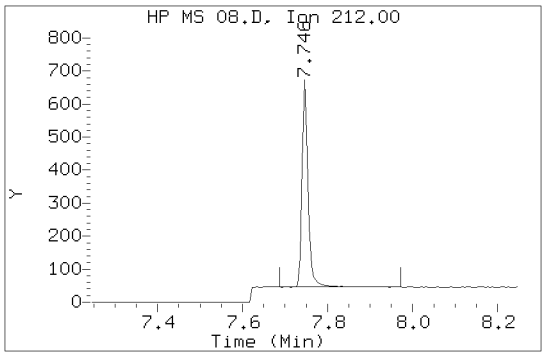
BEFORE

MASS
212
AREA
281
HEIGHT
47
19-Jun-2024
15:28
ALSHS
Server



AFTER

MASS
212
AREA
617
HEIGHT
627
20-Jun-2024
08:50

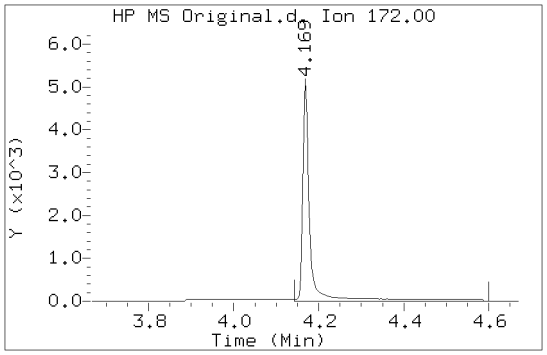


2-Fluorobiphenyl (321-60-8)

Reason Code:

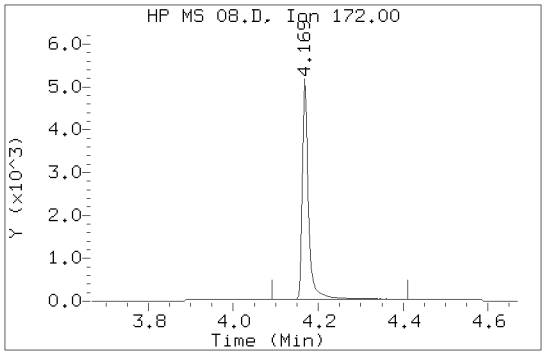
BEFORE

MASS
172
AREA
6398
HEIGHT
5188
19-Jun-2024
15:28
ALSHS
Server



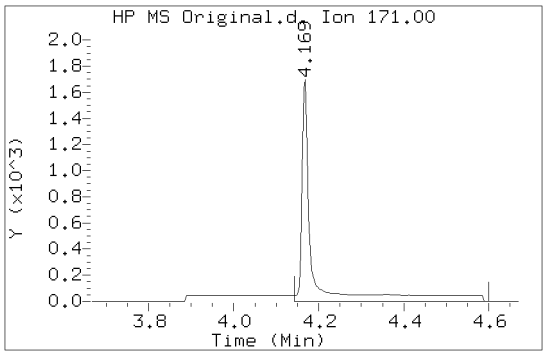
AFTER

MASS
172
AREA
5071
HEIGHT
5141
20-Jun-2024
08:50



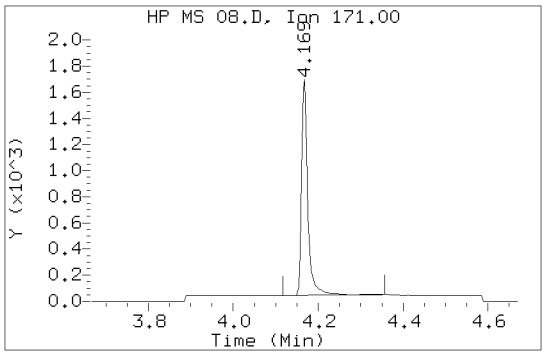
BEFORE

MASS
171
AREA
2934
HEIGHT
1696
19-Jun-2024
15:28
ALSHS
Server



AFTER

MASS
171
AREA
1636
HEIGHT
1649
20-Jun-2024
08:50



Data File: \\NAHSTWS005\Target\chem\SV6.i\240619.b\09.D Page 1
Report Date: 20-Jun-2024 08:51

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240619.b\09.D
Lab Smp Id: LCSD-213147
Inj Date : 19-JUN-2024 15:31
Operator : LG Inst ID: SV6.i
Smp Info : LCSD-213147
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240619.b\DXSIM.m
Meth Date : 19-Jun-2024 13:45 marco.guti Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 9 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	2.186	2.186	(1.000)	2211	0.10000	(aM)
* 45 Naphthalene-d8	136	3.180	3.176	(1.000)	6920	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.594	2.594	(0.816)	1618	0.07788	0.07788(M)
* 86 Acenaphthene-d10	164	4.776	4.776	(1.000)	4076	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.168	4.168	(0.873)	5178	0.08310	0.08310(M)
* 126 Phenanthrene-d10	188	6.181	6.181	(1.000)	7663	0.10000	(M)
* 182 Chrysene-d12	240	8.725	8.725	(1.000)	6554	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.751	7.746	(0.888)	11461	0.08584	0.08584(M)
* 198 Perylene-d12	264	10.371	10.365	(1.000)	6513	0.10000	
1 1,4-Dioxane	58	0.919	0.930	(0.421)	358	0.07559	0.07559(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240619.b\09.D

Date : 19-JUN-2024 15:31

Client ID:

Instrument: SV6.i

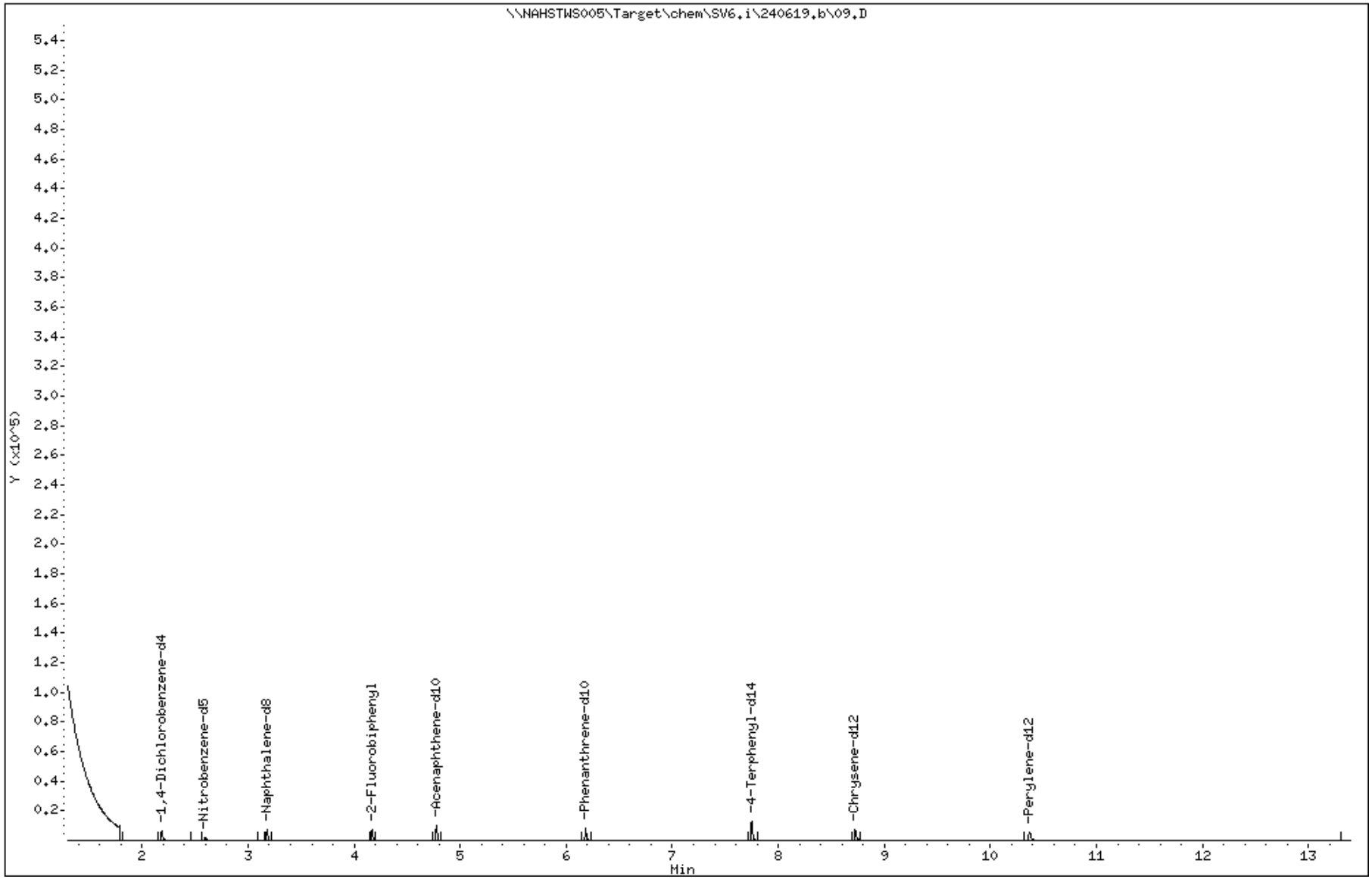
Sample Info: LCSD-213147

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

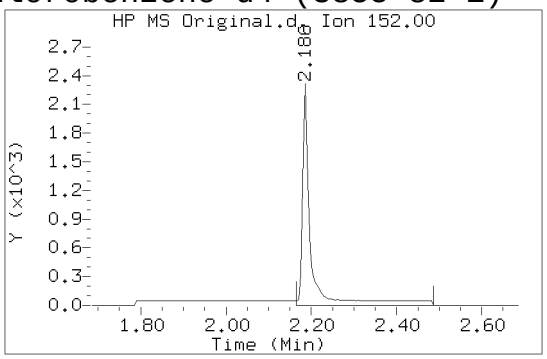


Data File : \\NAHSTWS005\Target\chem\SV6.i\240619.b\09.D
Inj Date : 19-JUN-2024 15:31
InstruID : SV6.i
LabSampID : LCSD-213147

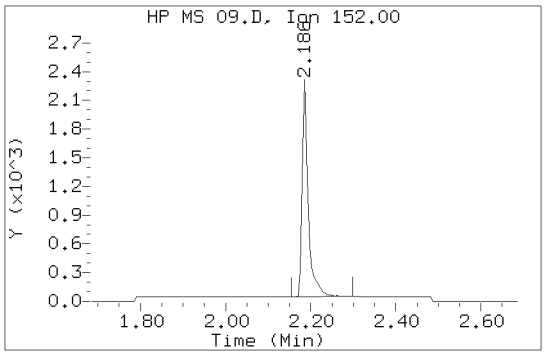
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

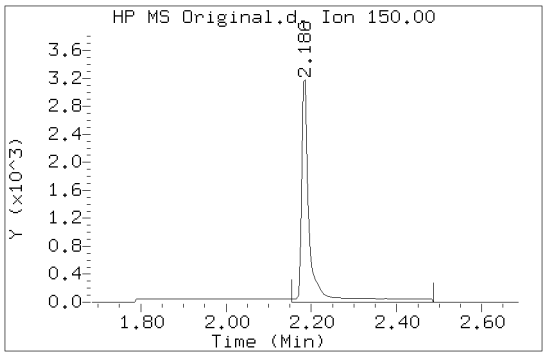
BEFORE
MASS
152
AREA
3157
HEIGHT
2316
19-Jun-2024
15:47
ALSHS
Server



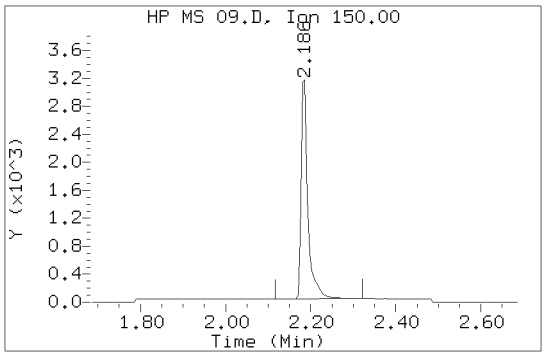
AFTER
MASS
152
AREA
2211
HEIGHT
2267
20-Jun-2024
08:51



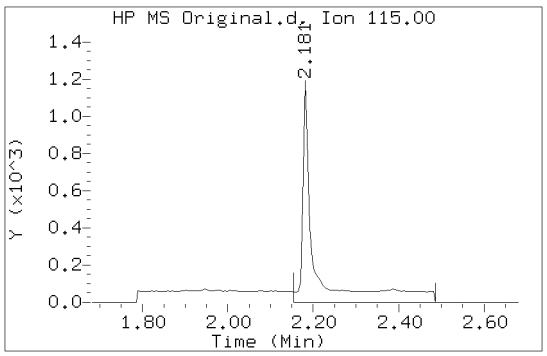
BEFORE
MASS
150
AREA
4435
HEIGHT
3178
19-Jun-2024
15:47
ALSHS
Server



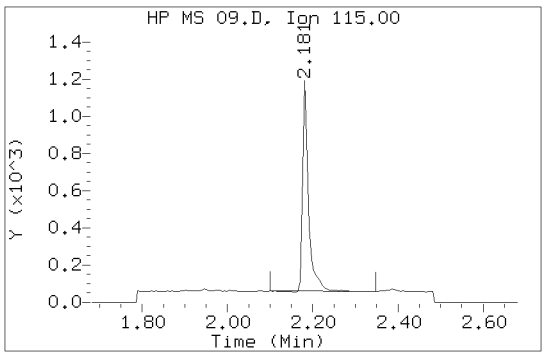
AFTER
MASS
150
AREA
3434
HEIGHT
3129
20-Jun-2024
08:51



BEFORE
MASS
115
AREA
2286
HEIGHT
1192
19-Jun-2024
15:47
ALSHS
Server



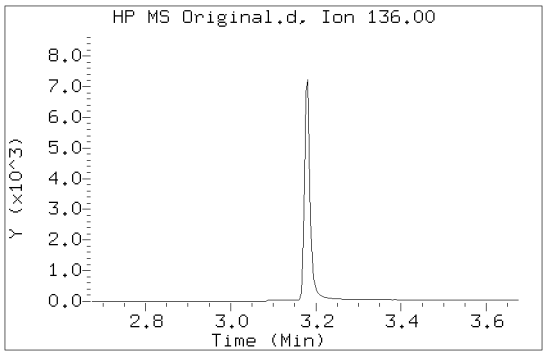
AFTER
MASS
115
AREA
1097
HEIGHT
1132
20-Jun-2024
08:51



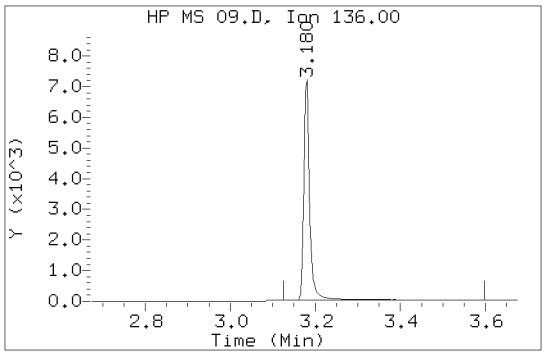
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
0
HEIGHT
0
19-Jun-2024
15:47
ALSHS
Server



AFTER
MASS
136
AREA
6920
HEIGHT
7180
20-Jun-2024
08:51



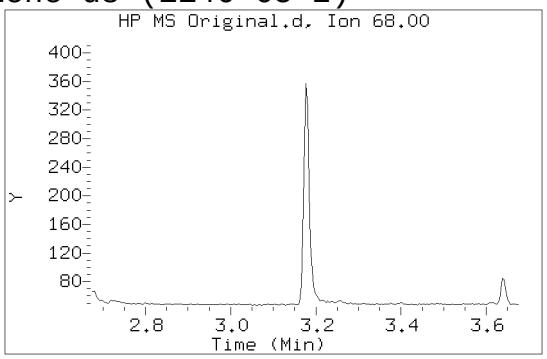
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Inj Date : 19-JUN-2024 15:31
InstruID : SV6.i
LabSampID : LCSD-213147

Naphthalene-d8 (1146-65-2)

Reason Code:

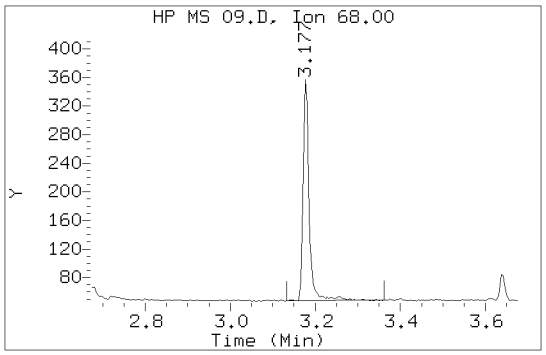
BEFORE

MASS
68
AREA
0
HEIGHT
0
19-Jun-2024
15:47
ALSHS
Server



AFTER

MASS
68
AREA
302
HEIGHT
308
20-Jun-2024
08:51

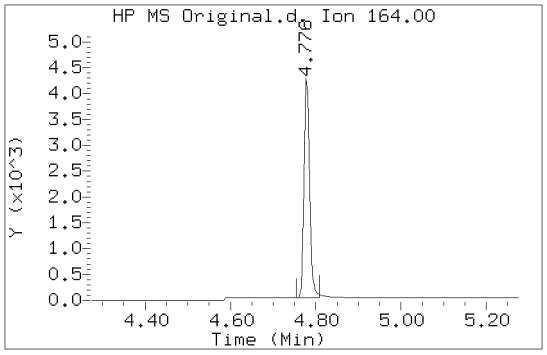


Acenaphthene-d10 (15067-26-2)

Reason Code:

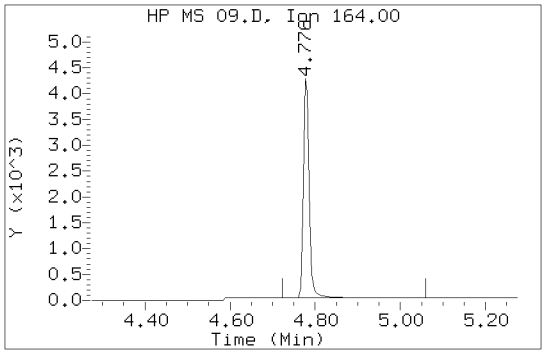
BEFORE

MASS
164
AREA
3979
HEIGHT
4241
19-Jun-2024
15:47
ALSHS
Server



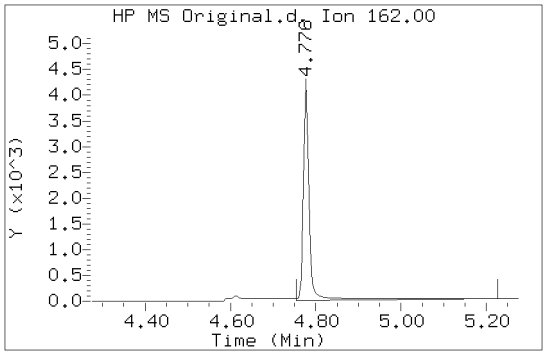
AFTER

MASS
164
AREA
4076
HEIGHT
4241
20-Jun-2024
08:51



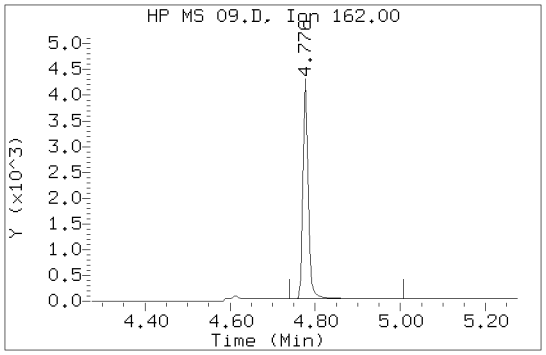
BEFORE

MASS
162
AREA
4264
HEIGHT
4302
19-Jun-2024
15:47
ALSHS
Server



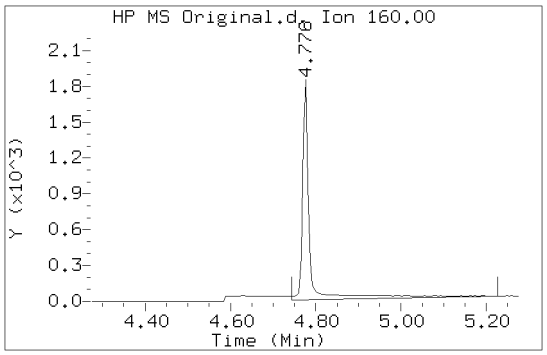
AFTER

MASS
162
AREA
3755
HEIGHT
4268
20-Jun-2024
08:51



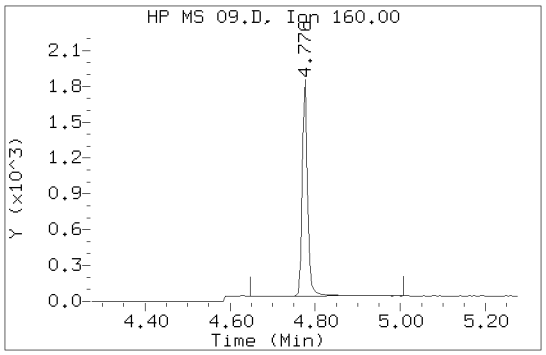
BEFORE

MASS
160
AREA
2113
HEIGHT
1842
19-Jun-2024
15:47
ALSHS
Server



AFTER

MASS
160
AREA
1612
HEIGHT
1811
20-Jun-2024
08:51



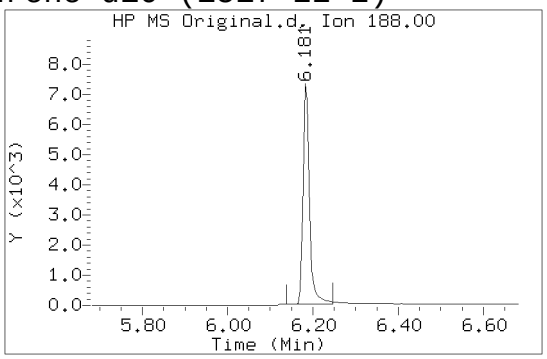
Data File : \\NAHSTWS005\Target\chem\SV6.i\240619.b\09.D
Inj Date : 19-JUN-2024 15:31
InstruID : SV6.i
LabSampID : LCSD-213147

Phenanthrene-d10 (1517-22-2)

Reason Code:

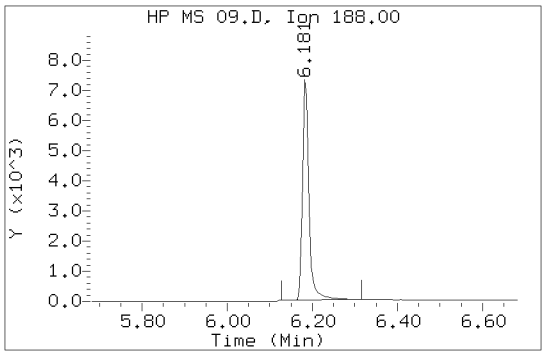
BEFORE

MASS
188
AREA
7635
HEIGHT
7315
19-Jun-2024
15:47
ALSHS
Server



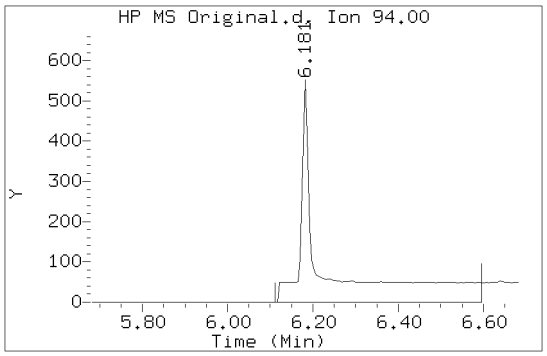
AFTER

MASS
188
AREA
7663
HEIGHT
7309
20-Jun-2024
08:51



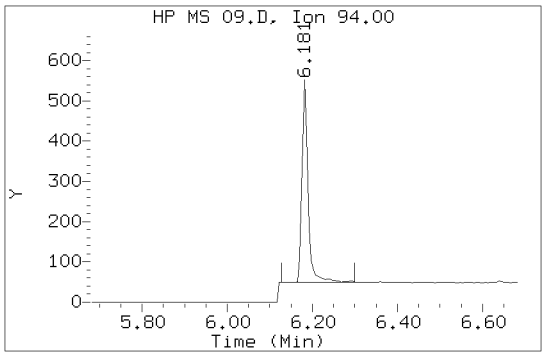
BEFORE

MASS
94
AREA
1914
HEIGHT
552
19-Jun-2024
15:47
ALSHS
Server



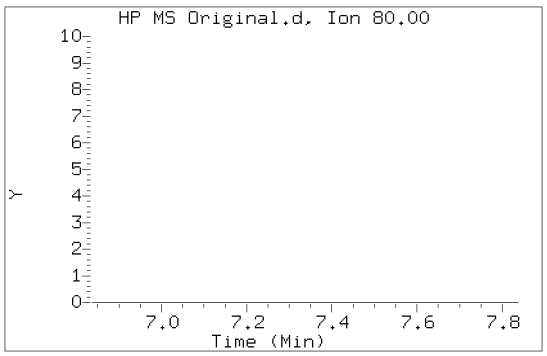
AFTER

MASS
94
AREA
490
HEIGHT
502
20-Jun-2024
08:51



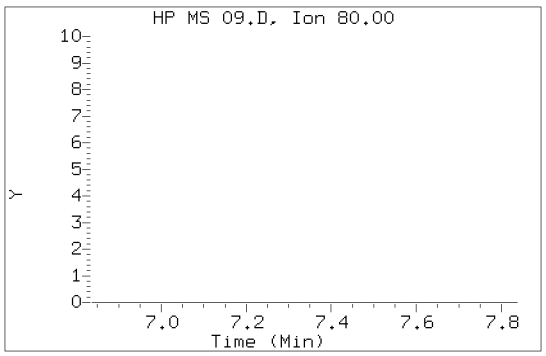
BEFORE

MASS
80
AREA
0
HEIGHT
0
19-Jun-2024
15:47
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
20-Jun-2024
08:51

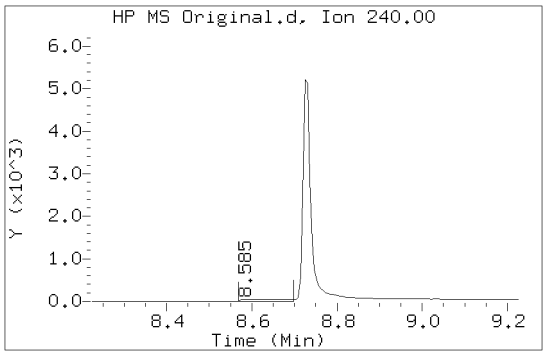


Chrysene-d12 (1719-03-5)

Reason Code:

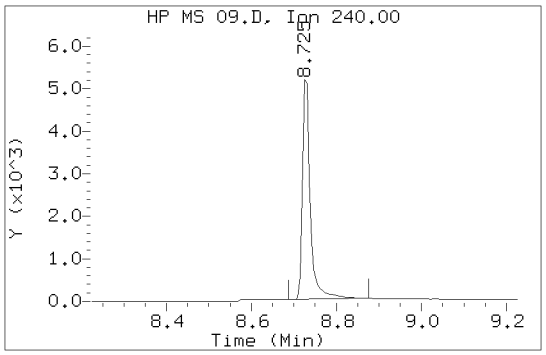
BEFORE

MASS
240
AREA
350
HEIGHT
46
19-Jun-2024
15:47
ALSHS
Server



AFTER

MASS
240
AREA
6554
HEIGHT
5163
20-Jun-2024
08:51

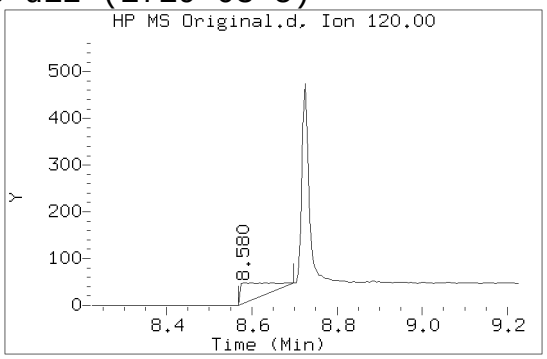


Data File : \\NAHSTWS005\Target\chem\SV6.i\240619.b\09.D
Inj Date : 19-JUN-2024 15:31
InstruID : SV6.i
LabSampID : LCSD-213147

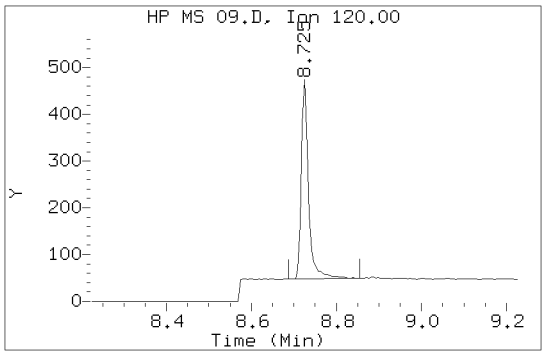
Chrysene-d12 (1719-03-5)

Reason Code:

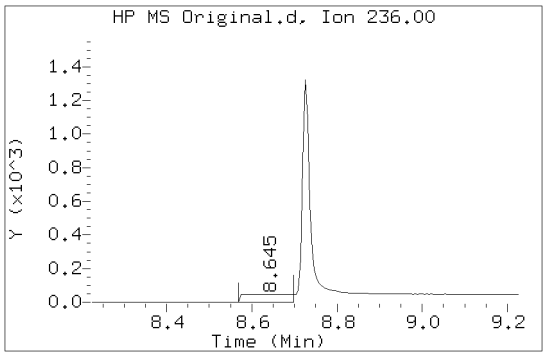
BEFORE
MASS
120
AREA
174
HEIGHT
44
19-Jun-2024
15:47
ALSHS
Server



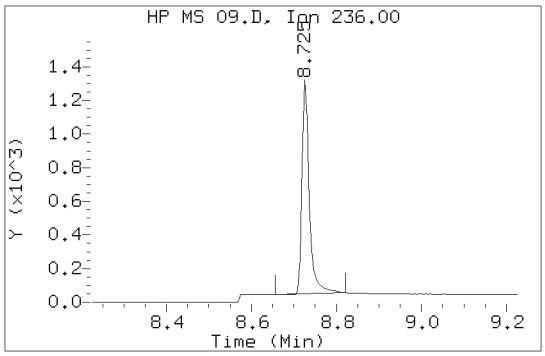
AFTER
MASS
120
AREA
494
HEIGHT
425
20-Jun-2024
08:51



BEFORE
MASS
236
AREA
354
HEIGHT
47
19-Jun-2024
15:47
ALSHS
Server



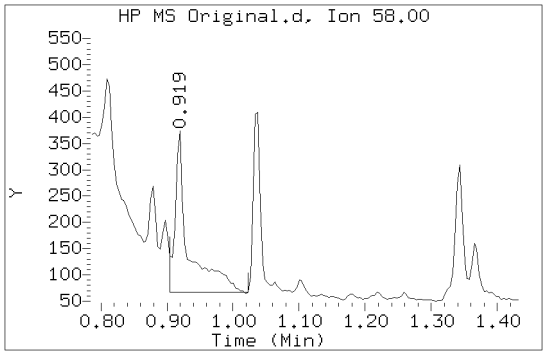
AFTER
MASS
236
AREA
1474
HEIGHT
1271
20-Jun-2024
08:51



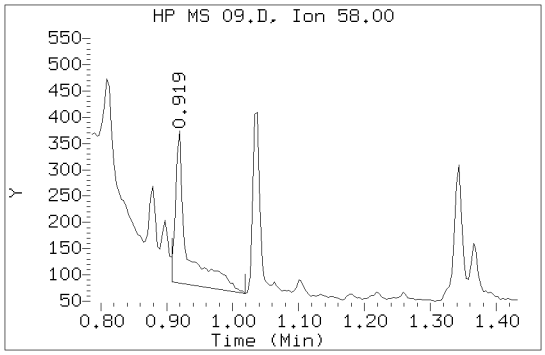
1,4-Dioxane ()

Reason Code:

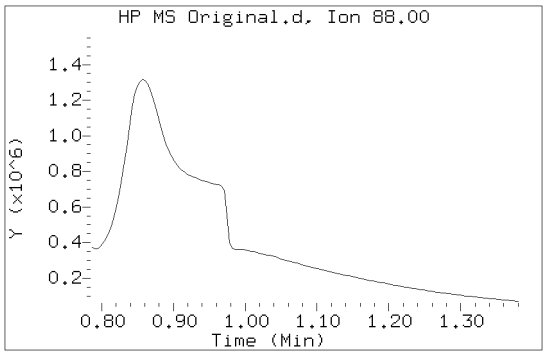
BEFORE
MASS
58
AREA
435
HEIGHT
307
19-Jun-2024
15:47
ALSHS
Server



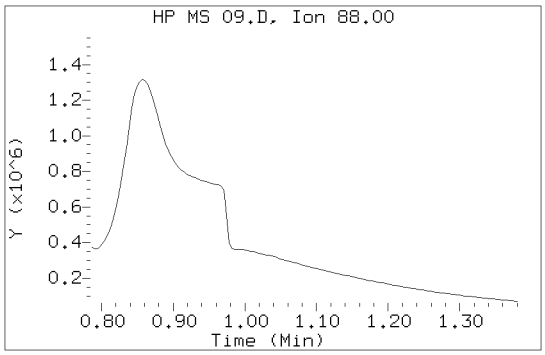
AFTER
MASS
58
AREA
358
HEIGHT
289
20-Jun-2024
08:51



BEFORE
MASS
88
AREA
11808294
HEIGHT
1253464
19-Jun-2024
15:47
ALSHS
Server



AFTER
MASS
88
AREA
11808294
HEIGHT
1253464
20-Jun-2024
08:51

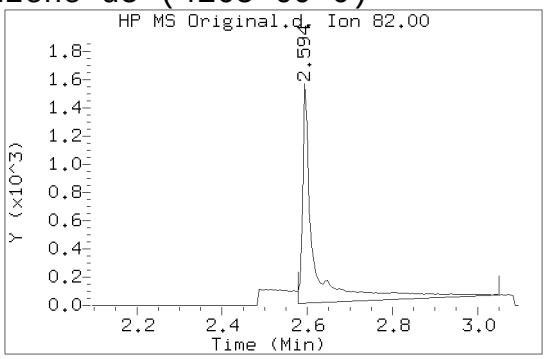


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Inj Date : 19-JUN-2024 15:31
InstruID : SV6.i
LabSampID : LCSD-213147

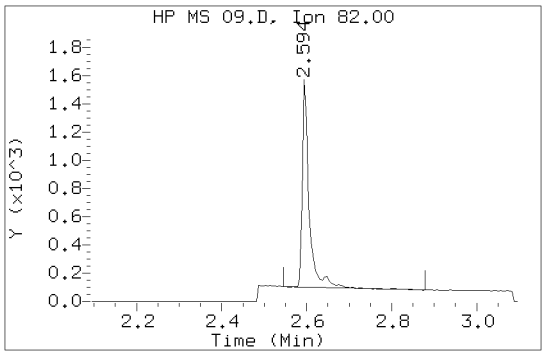
Nitrobenzene-d5 (4165-60-0)

Reason Code:

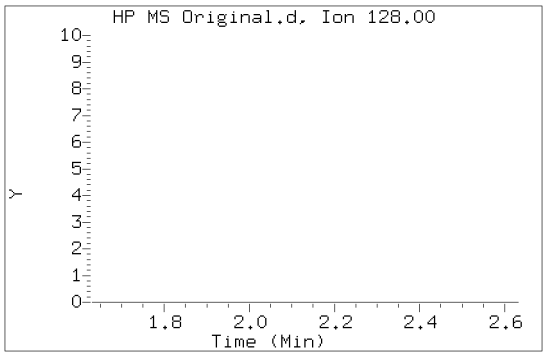
BEFORE
MASS
82
AREA
2882
HEIGHT
1555
19-Jun-2024
15:47
ALSHS
Server



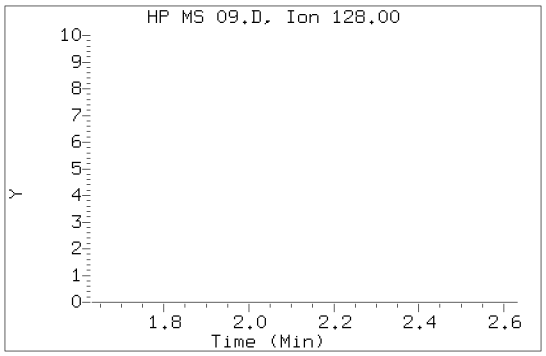
AFTER
MASS
82
AREA
1618
HEIGHT
1469
20-Jun-2024
08:51



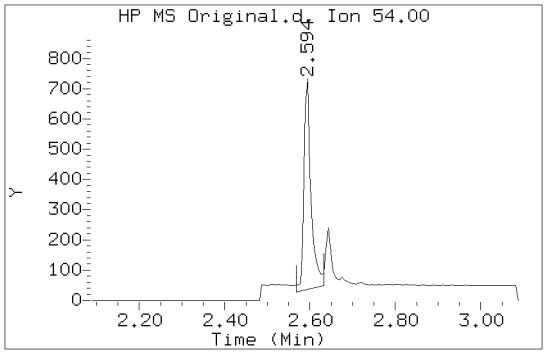
BEFORE
MASS
128
AREA
0
HEIGHT
0
19-Jun-2024
15:47
ALSHS
Server



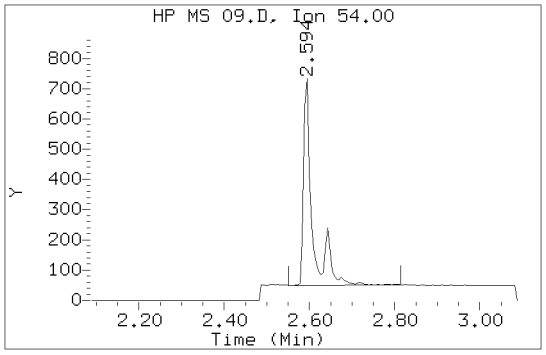
AFTER
MASS
128
AREA
0
HEIGHT
0
20-Jun-2024
08:51



BEFORE
MASS
54
AREA
801
HEIGHT
697
19-Jun-2024
15:47
ALSHS
Server



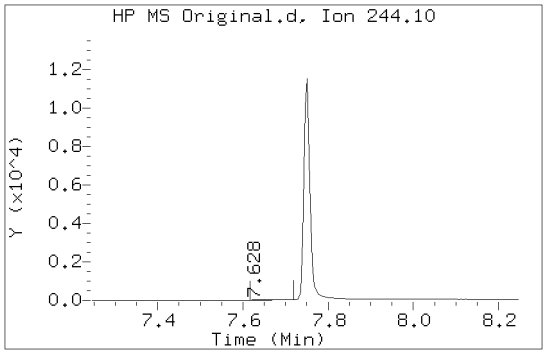
AFTER
MASS
54
AREA
977
HEIGHT
684
20-Jun-2024
08:51



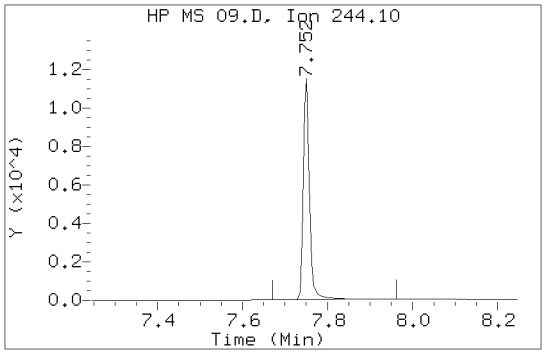
4-Terphenyl-d14 (1718-51-0)

Reason Code:

BEFORE
MASS
244.1
AREA
127
HEIGHT
40
19-Jun-2024
15:47
ALSHS
Server



AFTER
MASS
244.1
AREA
11461
HEIGHT
11472
20-Jun-2024
08:51



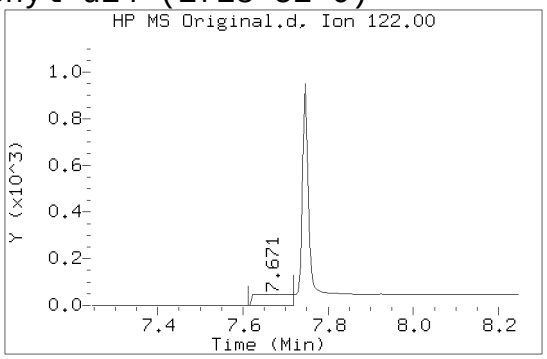
Data File : \\NAHSTWS005\Target\chem\SV6.i\240619.b\09.D
Inj Date : 19-JUN-2024 15:31
InstruID : SV6.i
LabSampID : LCSD-213147

4-Terphenyl-d14 (1718-51-0)

Reason Code:

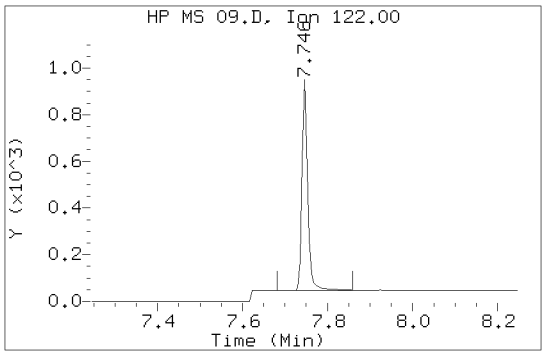
BEFORE

MASS
122
AREA
286
HEIGHT
48
19-Jun-2024
15:47
ALSHS
Server



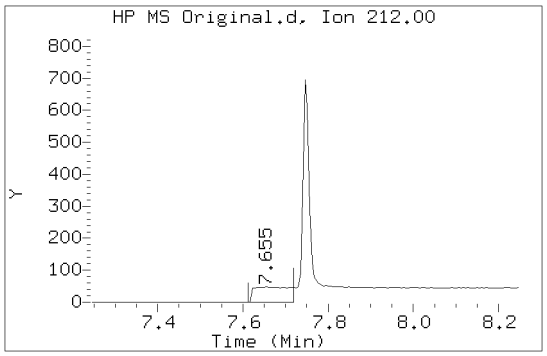
AFTER

MASS
122
AREA
845
HEIGHT
902
20-Jun-2024
08:51



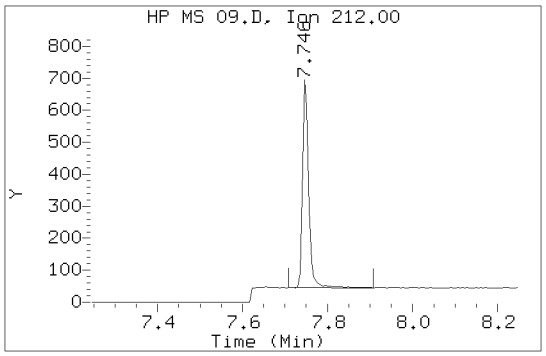
BEFORE

MASS
212
AREA
282
HEIGHT
48
19-Jun-2024
15:47
ALSHS
Server



AFTER

MASS
212
AREA
647
HEIGHT
649
20-Jun-2024
08:51

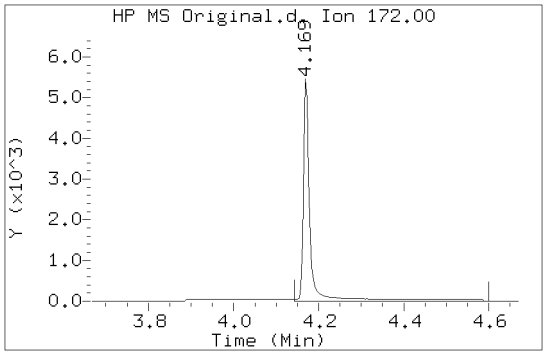


2-Fluorobiphenyl (321-60-8)

Reason Code:

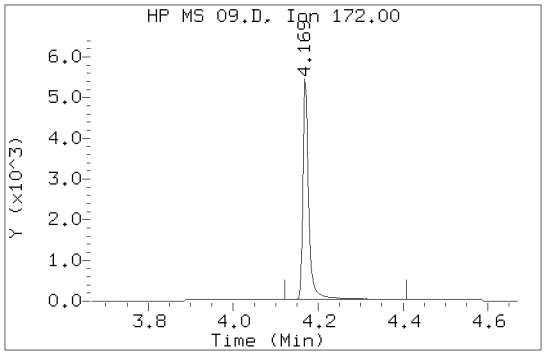
BEFORE

MASS
172
AREA
6504
HEIGHT
5460
19-Jun-2024
15:47
ALSHS
Server



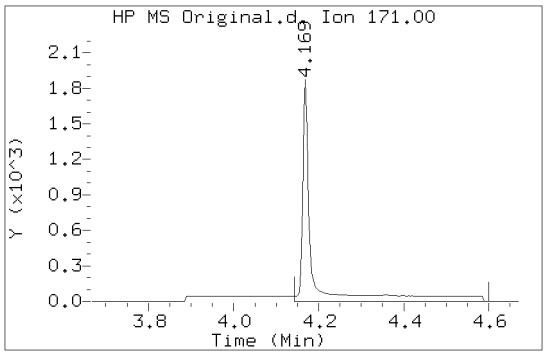
AFTER

MASS
172
AREA
5178
HEIGHT
5414
20-Jun-2024
08:51



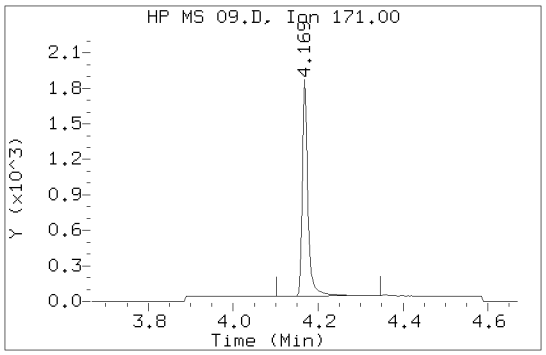
BEFORE

MASS
171
AREA
2978
HEIGHT
1873
19-Jun-2024
15:47
ALSHS
Server



AFTER

MASS
171
AREA
1710
HEIGHT
1827
20-Jun-2024
08:51



Data File: \\NAHSTWS005\Target\chem\SV6.i\240619.b\10.D Page 1
Report Date: 20-Jun-2024 08:52

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240619.b\10.D
Lab Smp Id: HS24060293-01
Inj Date : 19-JUN-2024 15:49
Operator : LG Inst ID: SV6.i
Smp Info : HS24060293-01
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240619.b\DXSIM.m
Meth Date : 19-Jun-2024 13:45 marco.guti Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	2.186	2.186	(1.000)	1952	0.10000	(aM)
* 45 Naphthalene-d8	136	3.176	3.176	(1.000)	5895	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.594	2.594	(0.817)	1186	0.06702	0.06702(M)
* 86 Acenaphthene-d10	164	4.776	4.776	(1.000)	3575	0.10000	
$ 69 2-Fluorobiphenyl	172	4.168	4.168	(0.873)	3442	0.06298	0.06298(M)
* 126 Phenanthrene-d10	188	6.181	6.181	(1.000)	6918	0.10000	(M)
* 182 Chrysene-d12	240	8.725	8.725	(1.000)	6069	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.746	7.746	(0.888)	9214	0.07453	0.07452(M)
* 198 Perylene-d12	264	10.371	10.365	(1.000)	6082	0.10000	
1 1,4-Dioxane	58	0.908	0.930	(0.415)	573	0.13705	0.1370(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240619.b\10.D

Date : 19-JUN-2024 15:49

Client ID:

Instrument: SV6.i

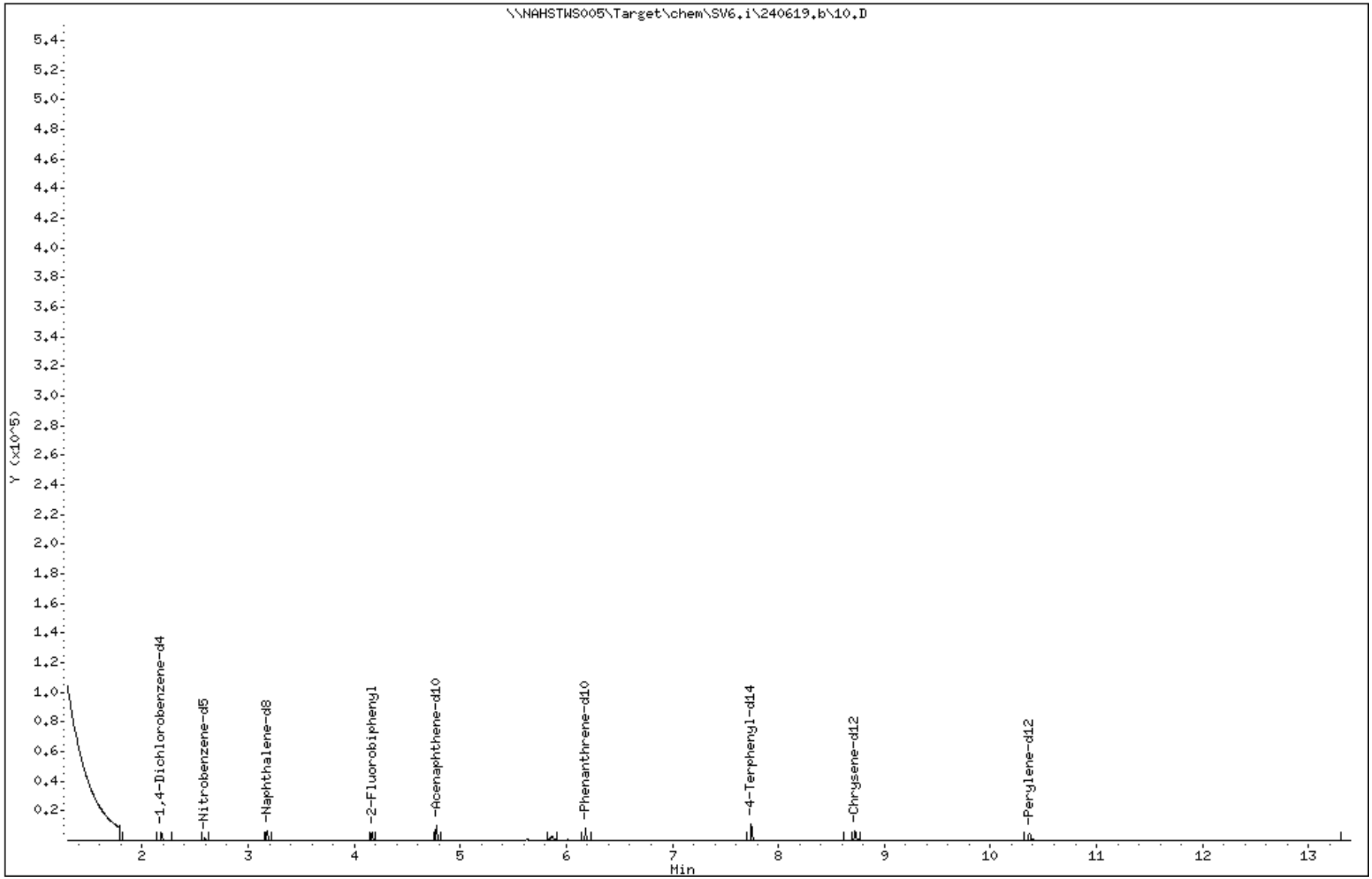
Sample Info: HS24060293-01

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\240619.b\10.D

Date : 19-JUN-2024 15:49

Client ID:

Instrument: SV6.i

Sample Info: HS24060293-01

Purge Volume: 1000.0

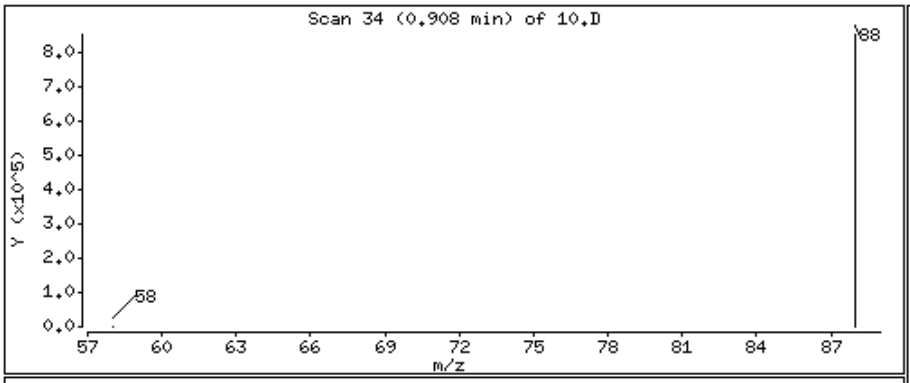
Operator: LG

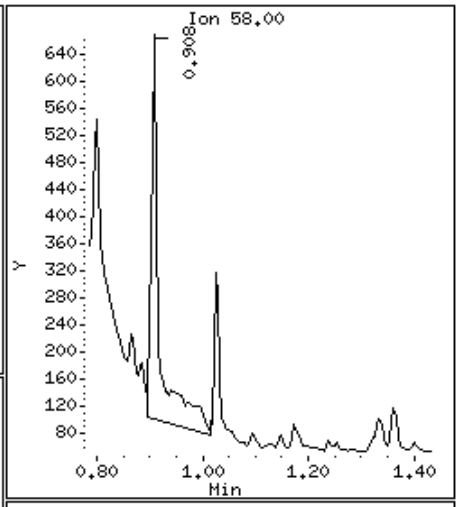
Column phase: RTX-5SIL MS

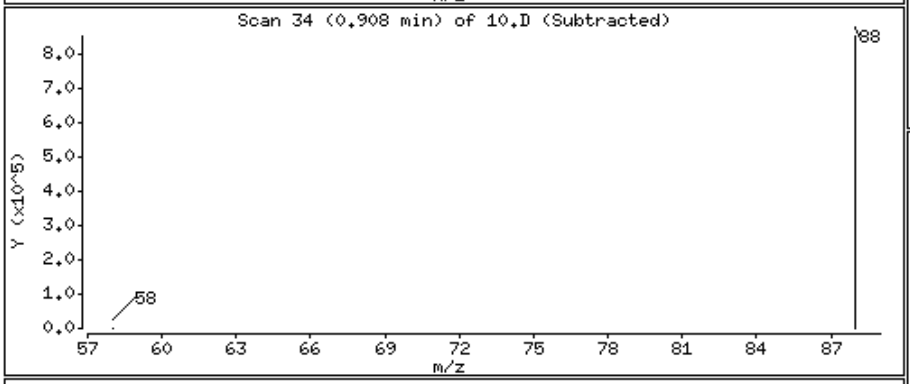
Column diameter: 0.28

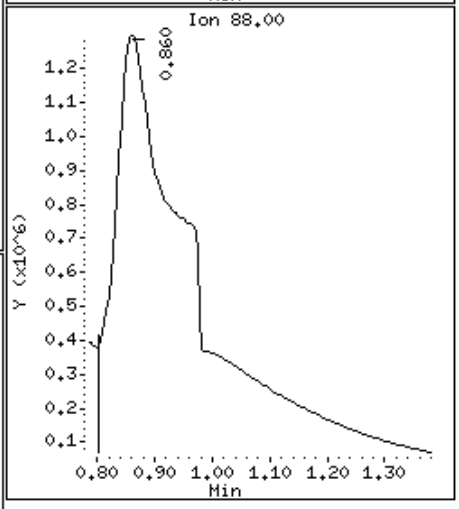
1 1,4-Dioxane

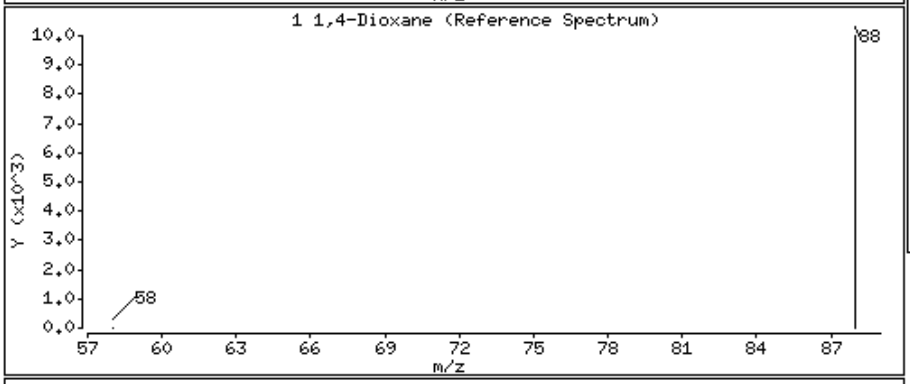
Concentration: 0.1370 ug/L

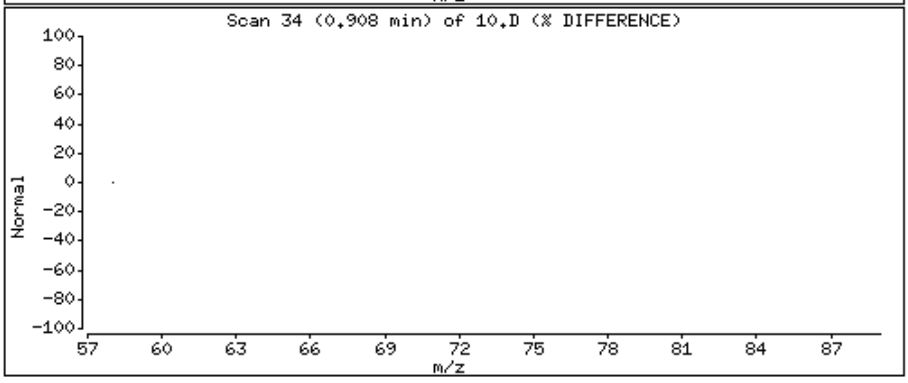












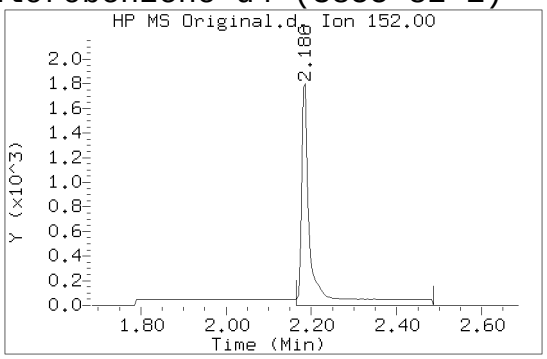
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Inj Date : 19-JUN-2024 15:49
InstruID : SV6.i
LabSampID : HS24060293-01

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

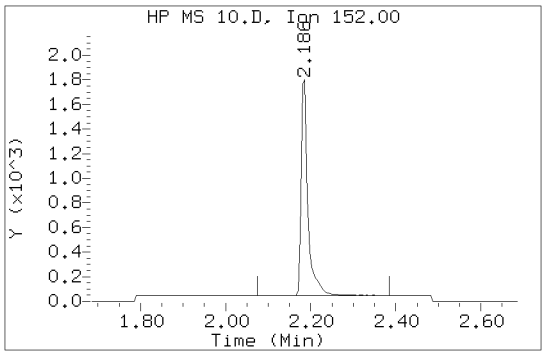
BEFORE

MASS
152
AREA
2865
HEIGHT
1801
19-Jun-2024
16:05
ALSHS
Server



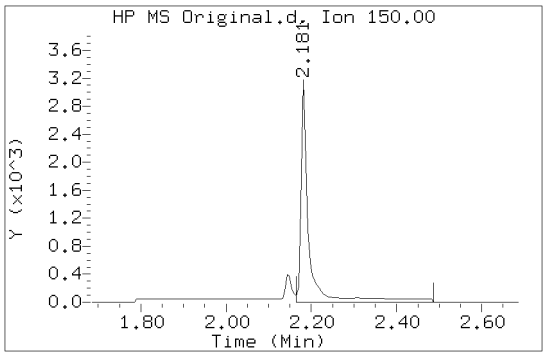
AFTER

MASS
152
AREA
1952
HEIGHT
1754
20-Jun-2024
08:52



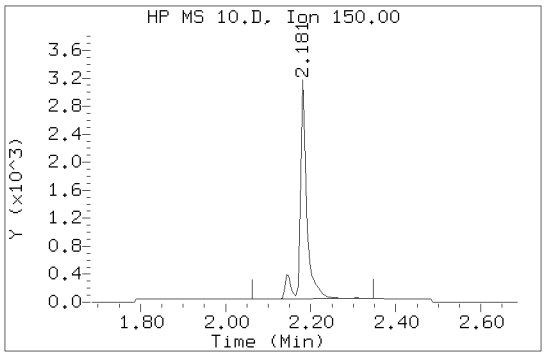
BEFORE

MASS
150
AREA
4102
HEIGHT
3176
19-Jun-2024
16:05
ALSHS
Server



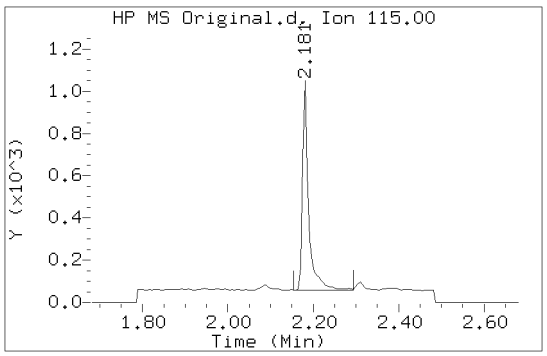
AFTER

MASS
150
AREA
3467
HEIGHT
3127
20-Jun-2024
08:52



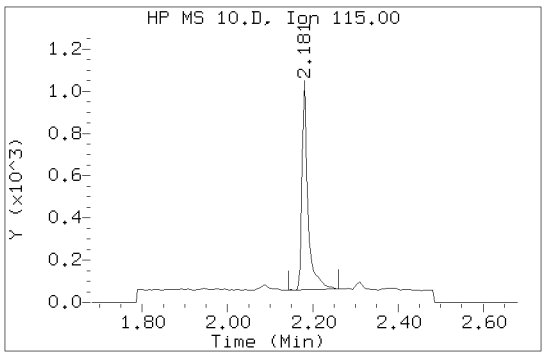
BEFORE

MASS
115
AREA
983
HEIGHT
991
19-Jun-2024
16:05
ALSHS
Server



AFTER

MASS
115
AREA
958
HEIGHT
989
20-Jun-2024
08:52

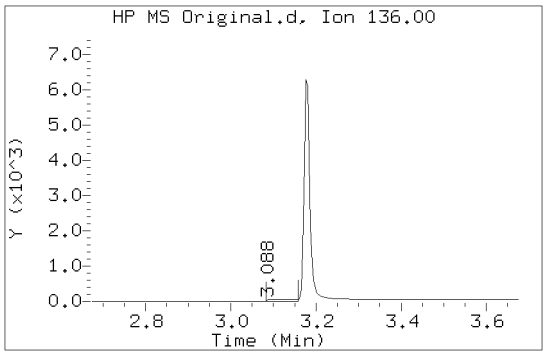


Naphthalene-d8 (1146-65-2)

Reason Code:

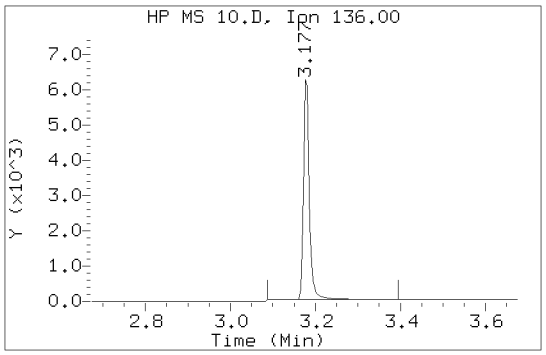
BEFORE

MASS
136
AREA
237
HEIGHT
61
19-Jun-2024
16:05
ALSHS
Server



AFTER

MASS
136
AREA
5895
HEIGHT
6226
20-Jun-2024
08:52

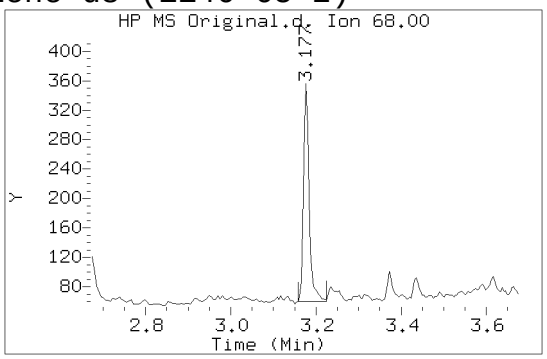


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Inj Date : 19-JUN-2024 15:49
InstruID : SV6.i
LabSampID : HS24060293-01

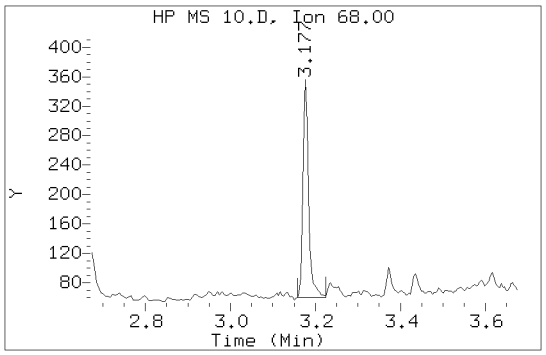
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
68
AREA
274
HEIGHT
296
19-Jun-2024
16:05
ALSHS
Server



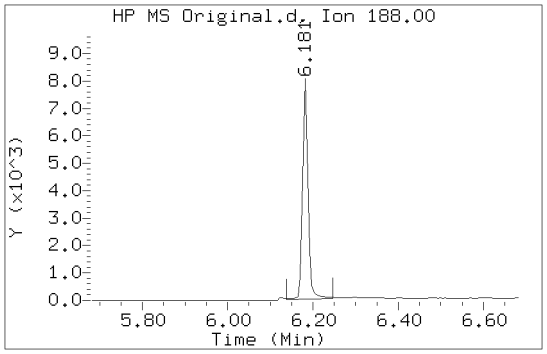
AFTER
MASS
68
AREA
274
HEIGHT
296
20-Jun-2024
08:52



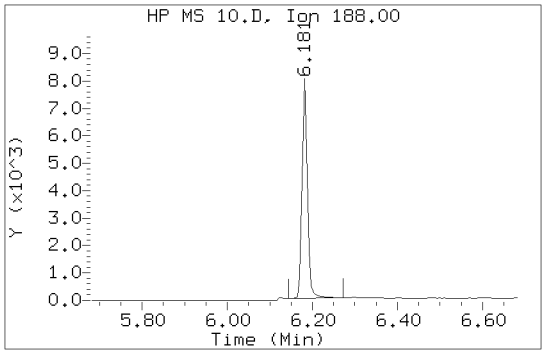
Phenanthrene-d10 (1517-22-2)

Reason Code:

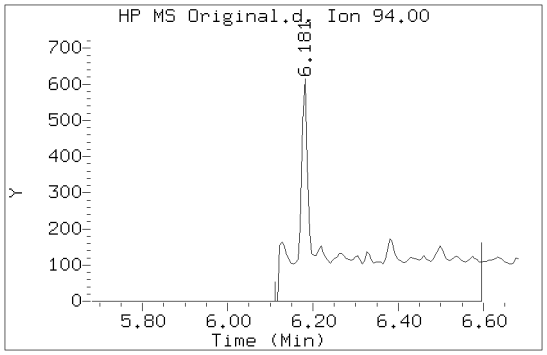
BEFORE
MASS
188
AREA
7144
HEIGHT
8041
19-Jun-2024
16:05
ALSHS
Server



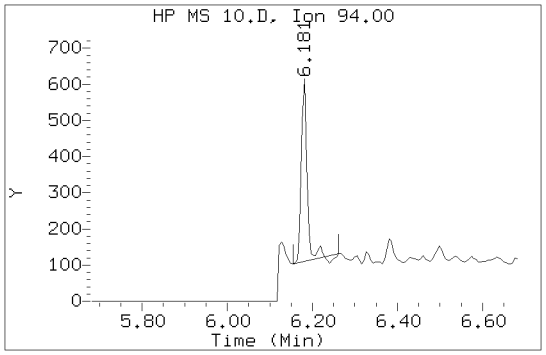
AFTER
MASS
188
AREA
6918
HEIGHT
8004
20-Jun-2024
08:52



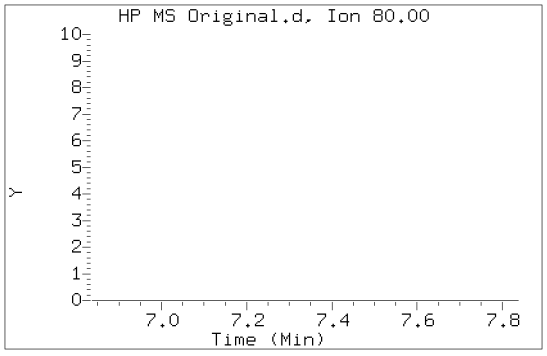
BEFORE
MASS
94
AREA
3909
HEIGHT
615
19-Jun-2024
16:05
ALSHS
Server



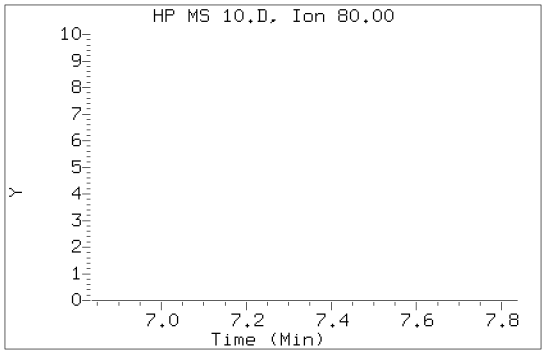
AFTER
MASS
94
AREA
444
HEIGHT
504
20-Jun-2024
08:52



BEFORE
MASS
80
AREA
0
HEIGHT
0
19-Jun-2024
16:05
ALSHS
Server



AFTER
MASS
80
AREA
0
HEIGHT
0
20-Jun-2024
08:52

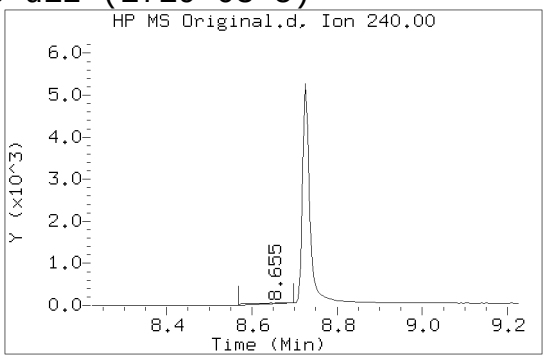


Data File : \\NAHSTWS005\Target\chem\SV6.i\240619.b\10.D
Inj Date : 19-JUN-2024 15:49
InstruID : SV6.i
LabSampID : HS24060293-01

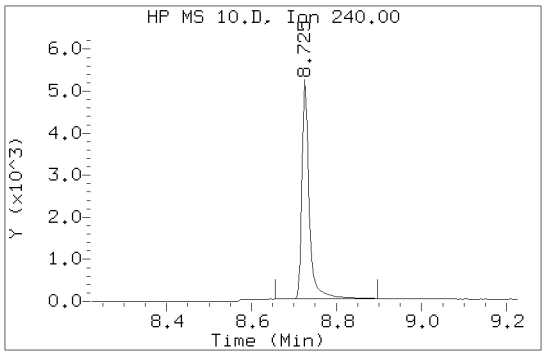
Chrysene-d12 (1719-03-5)

Reason Code:

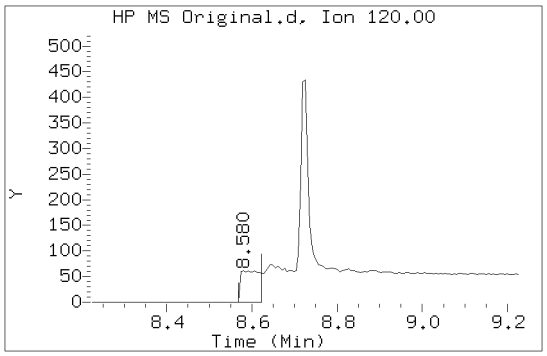
BEFORE
MASS
240
AREA
187
HEIGHT
18
19-Jun-2024
16:05
ALSHS
Server



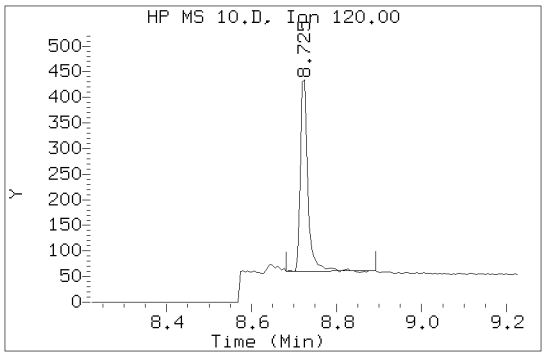
AFTER
MASS
240
AREA
6069
HEIGHT
5214
20-Jun-2024
08:52



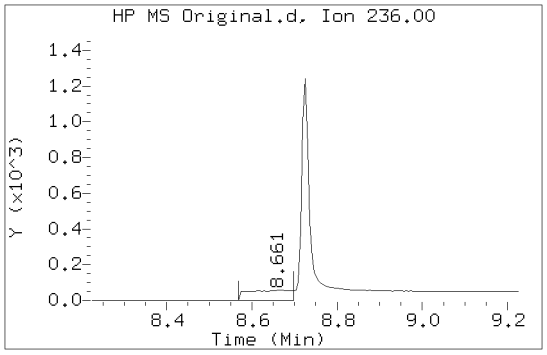
BEFORE
MASS
120
AREA
191
HEIGHT
61
19-Jun-2024
16:05
ALSHS
Server



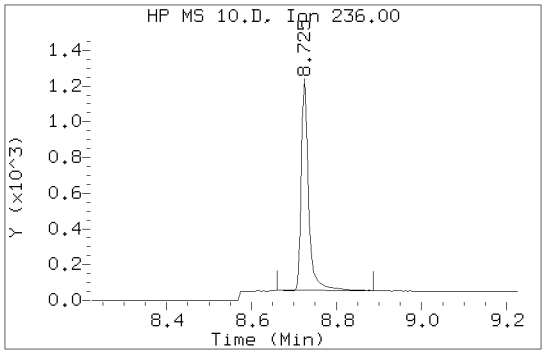
AFTER
MASS
120
AREA
453
HEIGHT
373
20-Jun-2024
08:52



BEFORE
MASS
236
AREA
412
HEIGHT
57
19-Jun-2024
16:05
ALSHS
Server



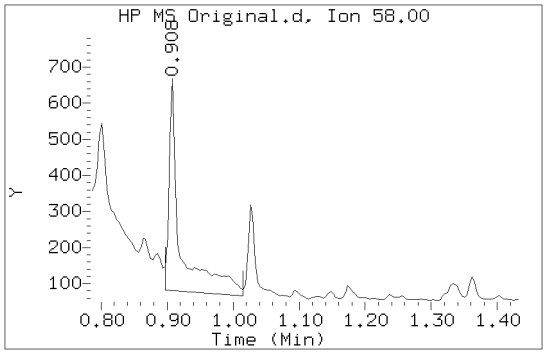
AFTER
MASS
236
AREA
1388
HEIGHT
1184
20-Jun-2024
08:52



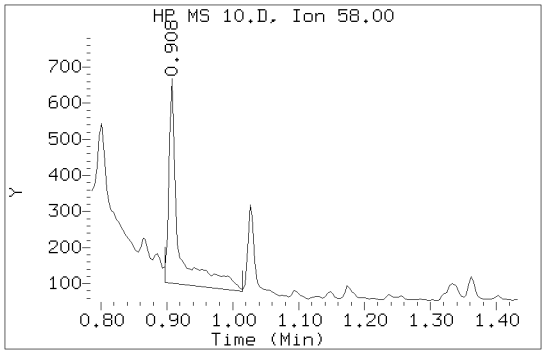
1,4-Dioxane ()

Reason Code:

BEFORE
MASS
58
AREA
700
HEIGHT
587
19-Jun-2024
16:05
ALSHS
Server



AFTER
MASS
58
AREA
573
HEIGHT
566
20-Jun-2024
08:52



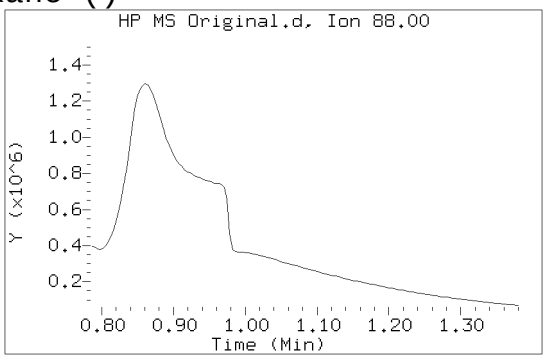
Data File : \\NAHSTWS005\Target\chem\SV6.i\240619.b\10.D
Inj Date : 19-JUN-2024 15:49
InstruID : SV6.i
LabSampID : HS24060293-01

1,4-Dioxane ()

Reason Code:

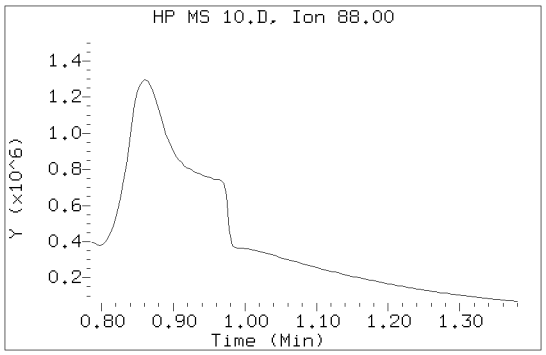
BEFORE

MASS
88
AREA
11853140
HEIGHT
1234736
19-Jun-2024
16:05
ALSHS
Server



AFTER

MASS
88
AREA
11853140
HEIGHT
1234736
20-Jun-2024
08:52

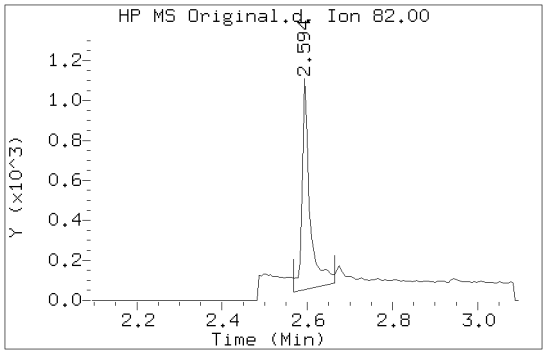


Nitrobenzene-d5 (4165-60-0)

Reason Code:

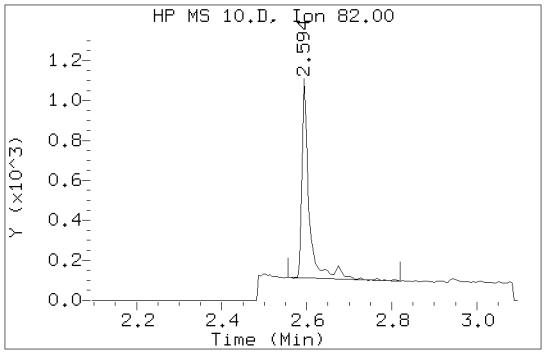
BEFORE

MASS
82
AREA
1366
HEIGHT
1054
19-Jun-2024
16:05
ALSHS
Server



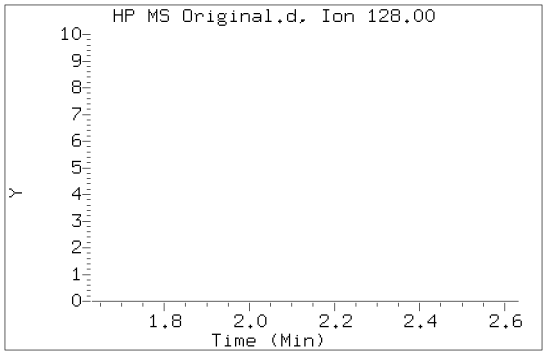
AFTER

MASS
82
AREA
1186
HEIGHT
997
20-Jun-2024
08:52



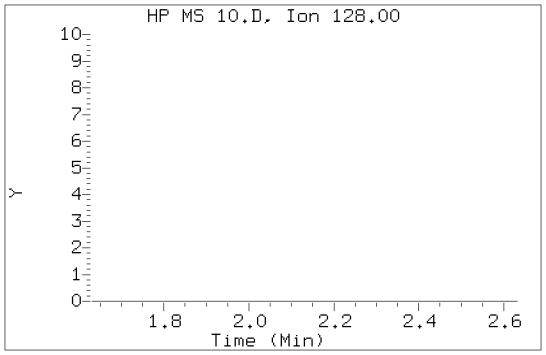
BEFORE

MASS
128
AREA
0
HEIGHT
0
19-Jun-2024
16:05
ALSHS
Server



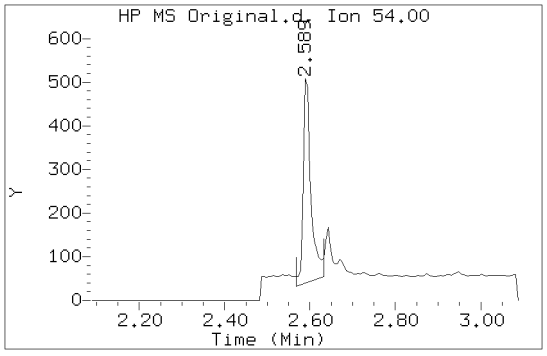
AFTER

MASS
128
AREA
0
HEIGHT
0
20-Jun-2024
08:52



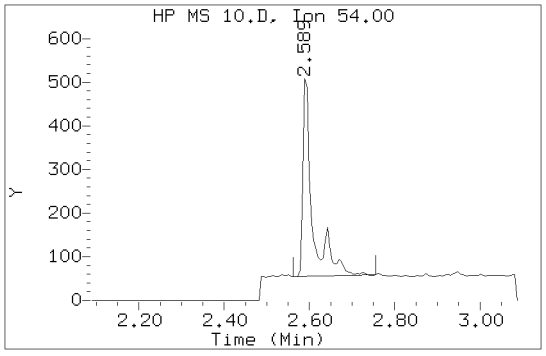
BEFORE

MASS
54
AREA
586
HEIGHT
468
19-Jun-2024
16:05
ALSHS
Server



AFTER

MASS
54
AREA
686
HEIGHT
452
20-Jun-2024
08:52



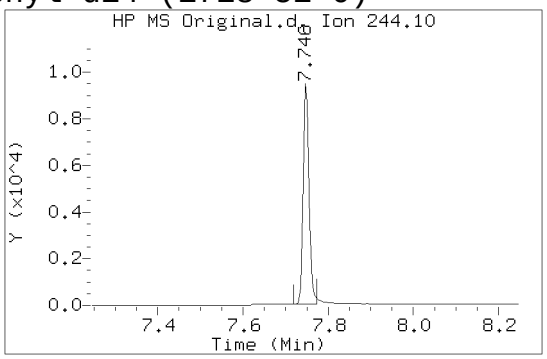
Data File : \\NAHSTWS005\Target\chem\SV6.i\240619.b\10.D
Inj Date : 19-JUN-2024 15:49
InstruID : SV6.i
LabSampID : HS24060293-01

4-Terphenyl-d14 (1718-51-0)

Reason Code:

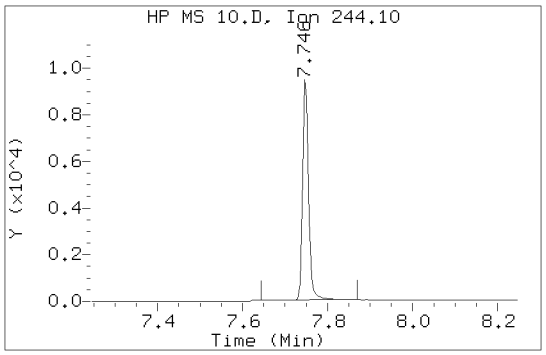
BEFORE

MASS
244.1
AREA
9023
HEIGHT
9448
19-Jun-2024
16:05
ALSHS
Server



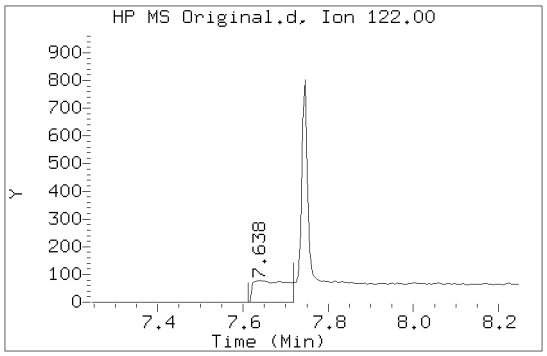
AFTER

MASS
244.1
AREA
9214
HEIGHT
9444
20-Jun-2024
08:52



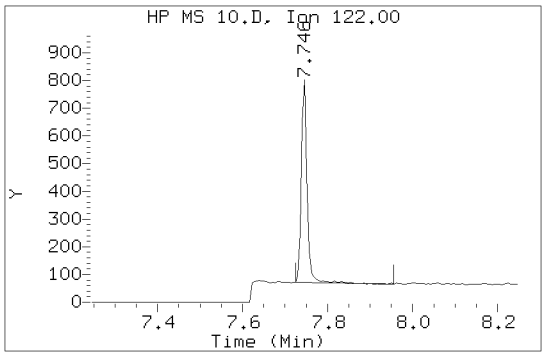
BEFORE

MASS
122
AREA
446
HEIGHT
78
19-Jun-2024
16:05
ALSHS
Server



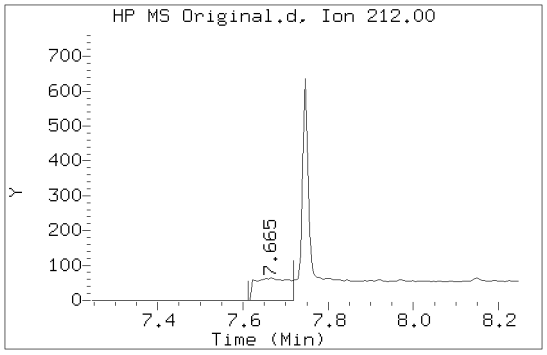
AFTER

MASS
122
AREA
684
HEIGHT
729
20-Jun-2024
08:52



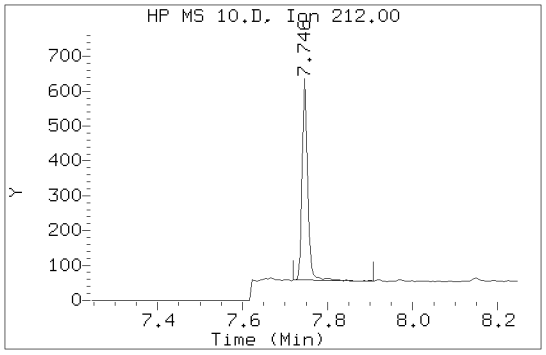
BEFORE

MASS
212
AREA
361
HEIGHT
64
19-Jun-2024
16:05
ALSHS
Server



AFTER

MASS
212
AREA
531
HEIGHT
578
20-Jun-2024
08:52

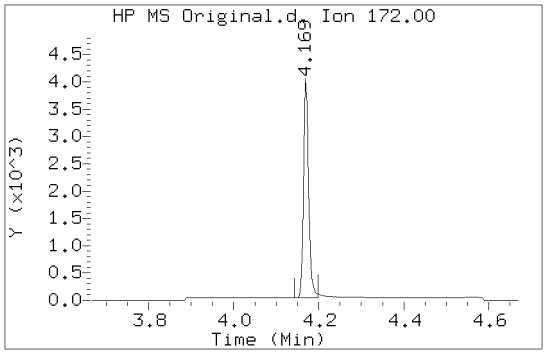


2-Fluorobiphenyl (321-60-8)

Reason Code:

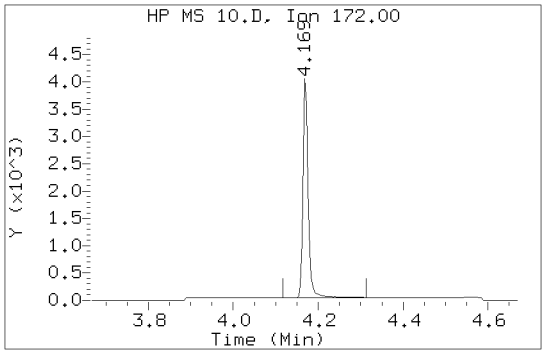
BEFORE

MASS
172
AREA
3344
HEIGHT
4007
19-Jun-2024
16:05
ALSHS
Server



AFTER

MASS
172
AREA
3442
HEIGHT
4009
20-Jun-2024
08:52



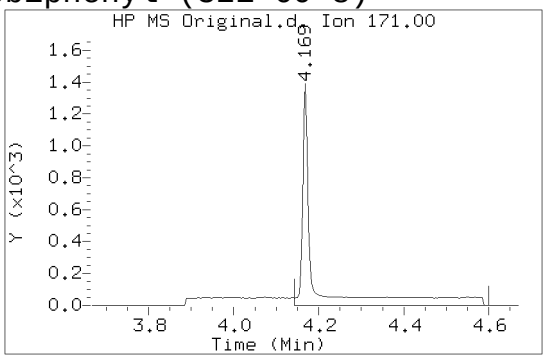
Data File : \\NAHSTWS005\Target\chem\SV6.i\240619.b\10.D
Inj Date : 19-JUN-2024 15:49
InstruID : SV6.i
LabSampID : HS24060293-01

2-Fluorobiphenyl (321-60-8)

Reason Code:

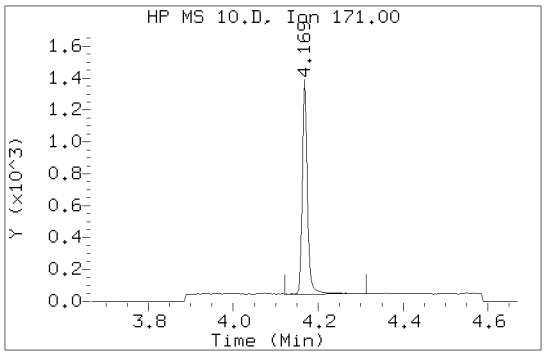
BEFORE

MASS
171
AREA
2435
HEIGHT
1390
19-Jun-2024
16:05
ALSHS
Server



AFTER

MASS
171
AREA
1140
HEIGHT
1343
20-Jun-2024
08:52



Data File: \\NAHSTWS005\Target\chem\SV6.i\240619.b\11.D Page 1
Report Date: 20-Jun-2024 08:53

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240619.b\11.D
Lab Smp Id: HS24060293-02
Inj Date : 19-JUN-2024 16:06
Operator : LG Inst ID: SV6.i
Smp Info : HS24060293-02
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240619.b\DXSIM.m
Meth Date : 19-Jun-2024 13:45 marco.guti Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	2.181	2.186	(1.000)	1631	0.10000	(aM)
* 45 Naphthalene-d8	136	3.176	3.176	(1.000)	5032	0.10000	
$ 33 Nitrobenzene-d5	82	2.594	2.594	(0.817)	1161	0.07685	0.07685(M)
* 86 Acenaphthene-d10	164	4.776	4.776	(1.000)	3025	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.168	4.168	(0.873)	3247	0.07022	0.07022(M)
* 126 Phenanthrene-d10	188	6.181	6.181	(1.000)	5783	0.10000	(M)
* 182 Chrysene-d12	240	8.725	8.725	(1.000)	5050	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.751	7.746	(0.888)	7507	0.07297	0.07297(M)
* 198 Perylene-d12	264	10.371	10.365	(1.000)	5196	0.10000	
1 1,4-Dioxane	58	0.901	0.930	(0.413)	222	0.06355	0.06355(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240619.b\11.D

Date : 19-JUN-2024 16:06

Client ID:

Instrument: SV6.i

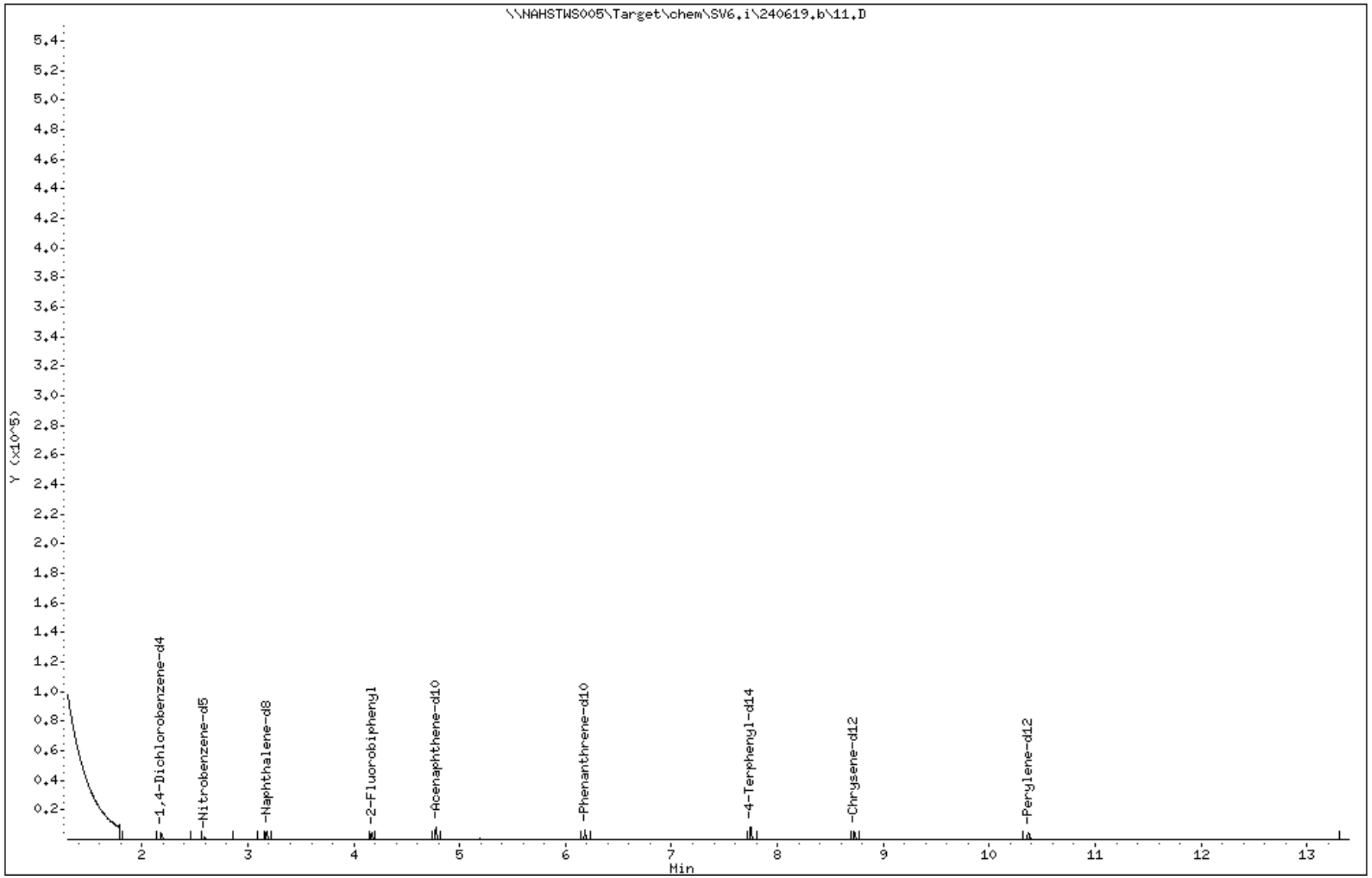
Sample Info: HS24060293-02

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\240619.b\11.D

Date : 19-JUN-2024 16:06

Client ID:

Instrument: SV6.i

Sample Info: HS24060293-02

Purge Volume: 1000.0

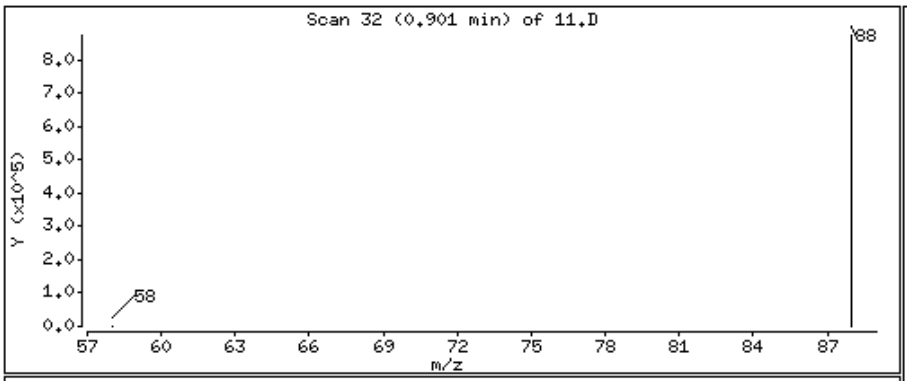
Operator: LG

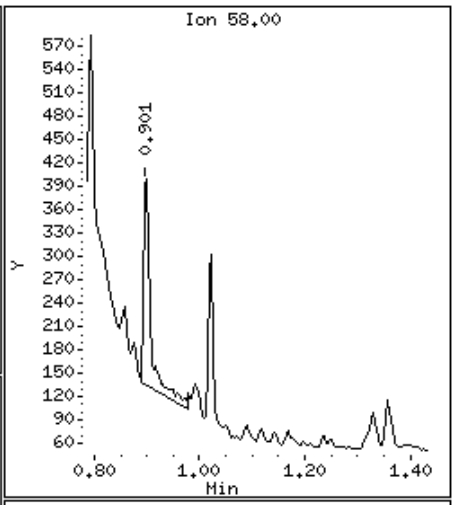
Column phase: RTX-5SIL MS

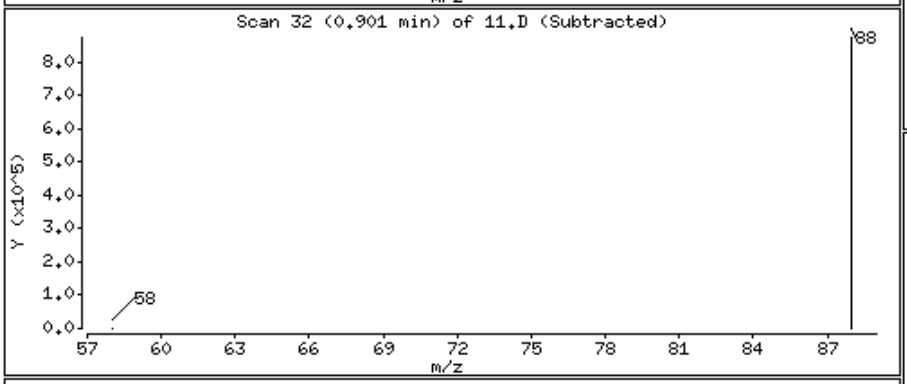
Column diameter: 0.28

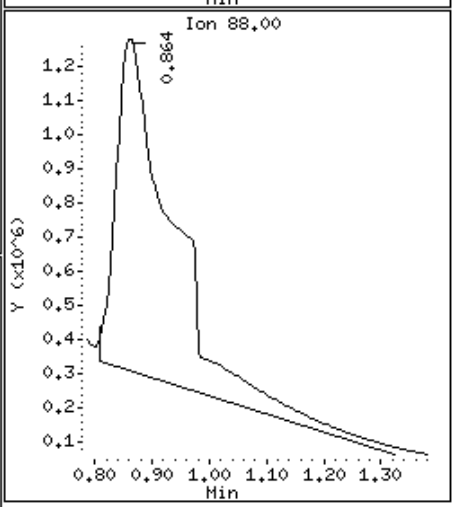
1 1,4-Dioxane

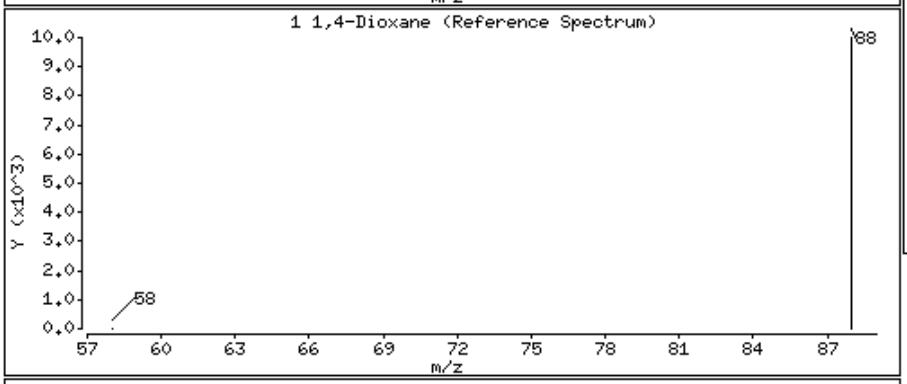
Concentration: 0.06355 ug/L

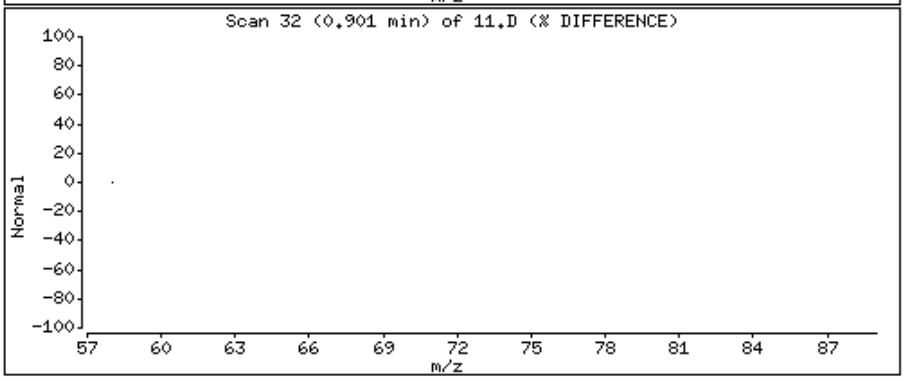










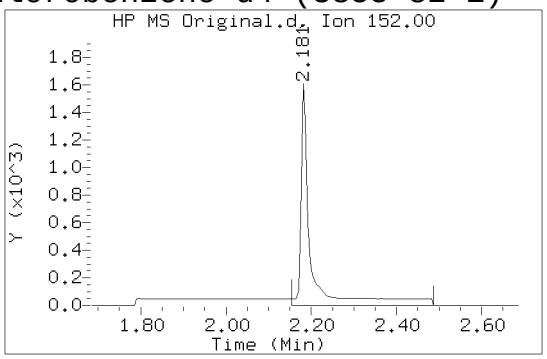


Data File : \\NAHSTWS005\Target\chem\SV6.i\240619.b\11.D
Inj Date : 19-JUN-2024 16:06
InstruID : SV6.i
LabSampID : HS24060293-02

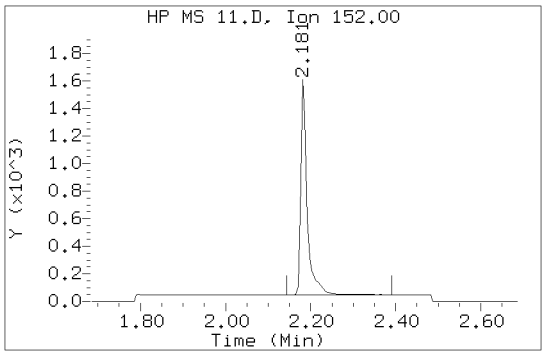
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

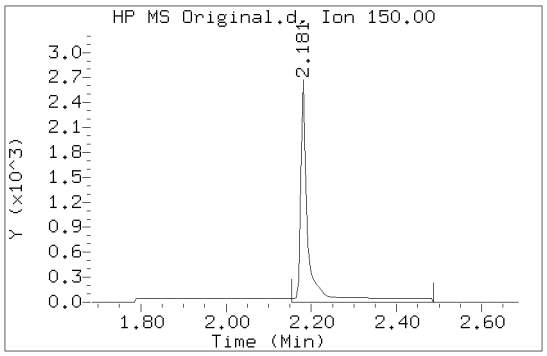
BEFORE
MASS
152
AREA
2572
HEIGHT
1609
19-Jun-2024
16:22
ALSHS
Server



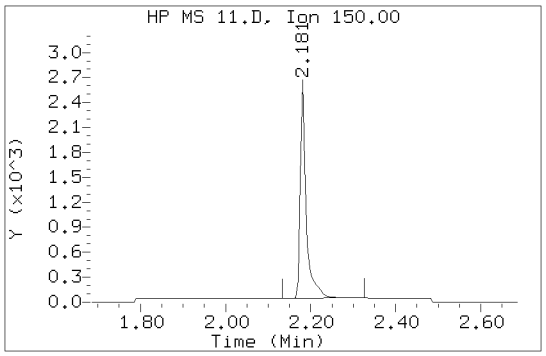
AFTER
MASS
152
AREA
1631
HEIGHT
1562
20-Jun-2024
08:53



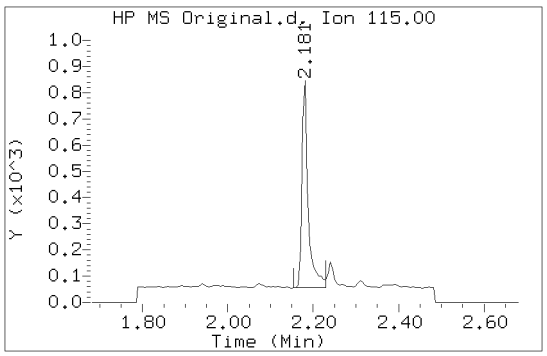
BEFORE
MASS
150
AREA
3522
HEIGHT
2671
19-Jun-2024
16:22
ALSHS
Server



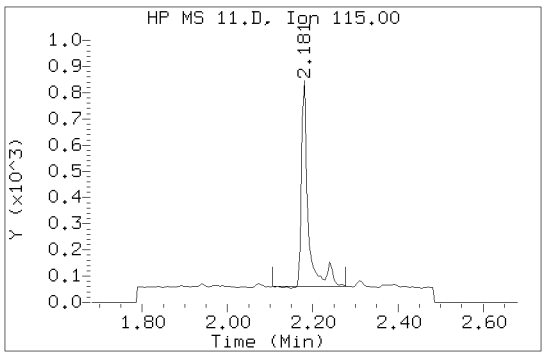
AFTER
MASS
150
AREA
2539
HEIGHT
2622
20-Jun-2024
08:53



BEFORE
MASS
115
AREA
807
HEIGHT
789
19-Jun-2024
16:22
ALSHS
Server



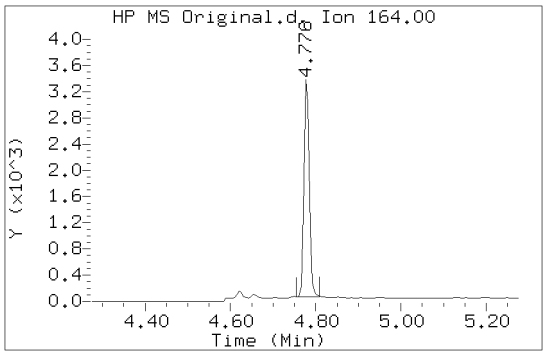
AFTER
MASS
115
AREA
866
HEIGHT
785
20-Jun-2024
08:53



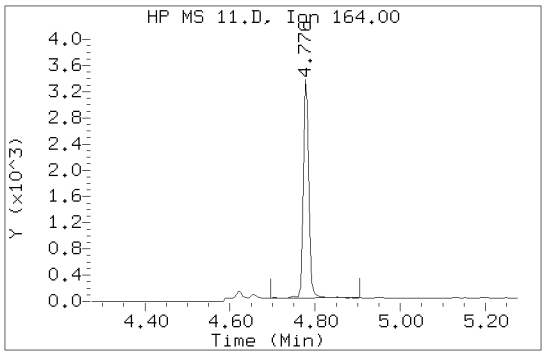
Acenaphthene-d10 (15067-26-2)

Reason Code:

BEFORE
MASS
164
AREA
2913
HEIGHT
3312
19-Jun-2024
16:22
ALSHS
Server



AFTER
MASS
164
AREA
3025
HEIGHT
3330
20-Jun-2024
08:53

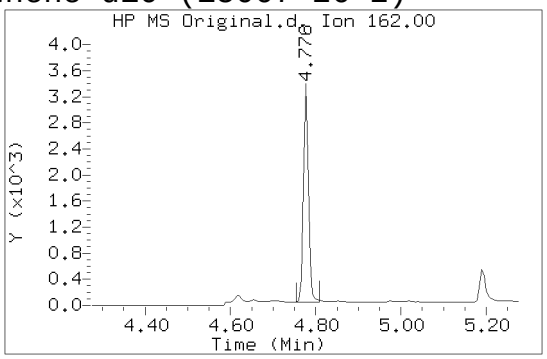


Data File : \\NAHSTWS005\Target\chem\SV6.i\240619.b\11.D
Inj Date : 19-JUN-2024 16:06
InstruID : SV6.i
LabSampID : HS24060293-02

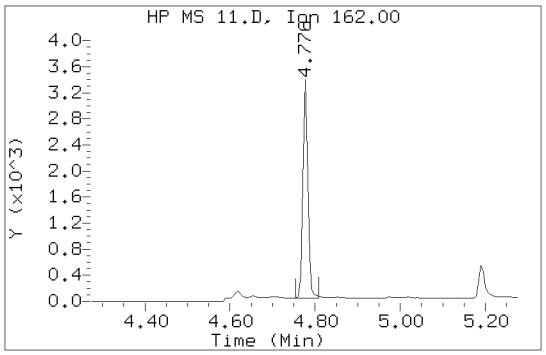
Acenaphthene-d10 (15067-26-2)

Reason Code:

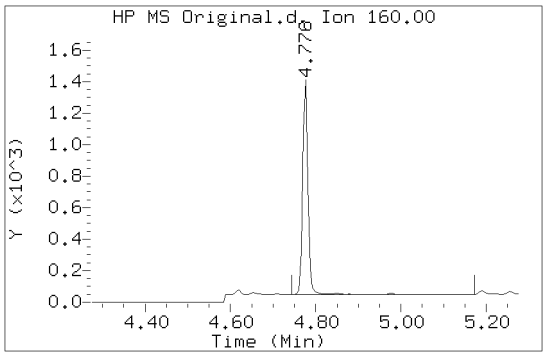
BEFORE
MASS
162
AREA
2758
HEIGHT
3347
19-Jun-2024
16:22
ALSHS
Server



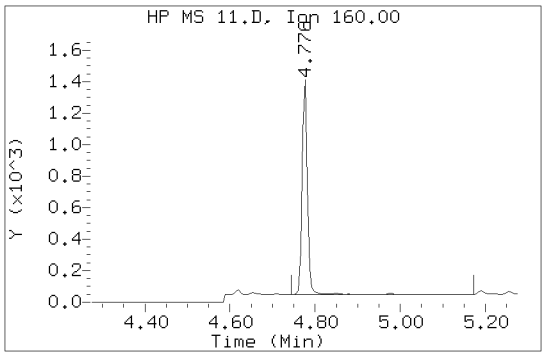
AFTER
MASS
162
AREA
2758
HEIGHT
3347
20-Jun-2024
08:53



BEFORE
MASS
160
AREA
1203
HEIGHT
1362
19-Jun-2024
16:22
ALSHS
Server



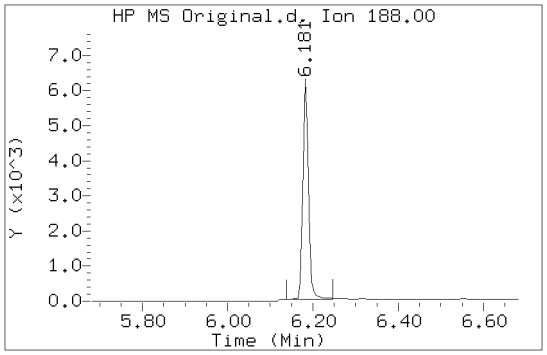
AFTER
MASS
160
AREA
1203
HEIGHT
1362
20-Jun-2024
08:53



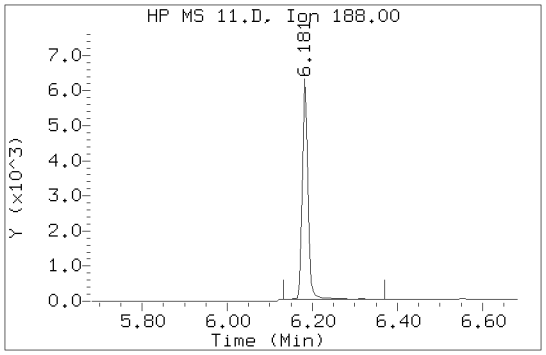
Phenanthrene-d10 (1517-22-2)

Reason Code:

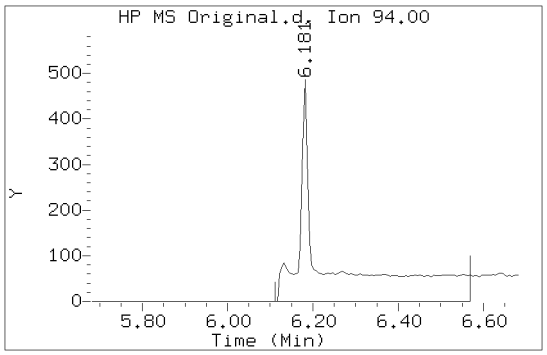
BEFORE
MASS
188
AREA
5723
HEIGHT
6283
19-Jun-2024
16:22
ALSHS
Server



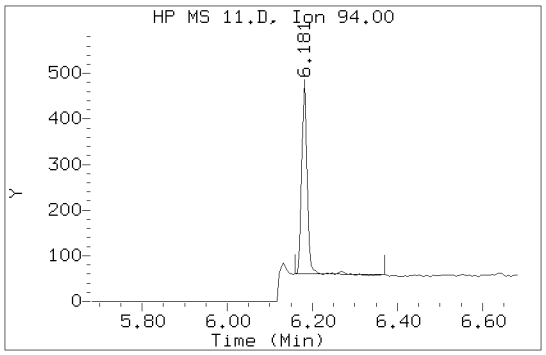
AFTER
MASS
188
AREA
5783
HEIGHT
6282
20-Jun-2024
08:53



BEFORE
MASS
94
AREA
1958
HEIGHT
486
19-Jun-2024
16:22
ALSHS
Server



AFTER
MASS
94
AREA
365
HEIGHT
426
20-Jun-2024
08:53



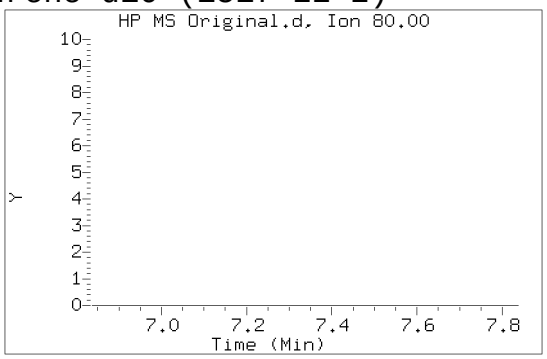
Data File : \\NAHSTWS005\Target\chem\SV6.i\240619.b\11.D
Inj Date : 19-JUN-2024 16:06
InstruID : SV6.i
LabSampID : HS24060293-02

Phenanthrene-d10 (1517-22-2)

Reason Code:

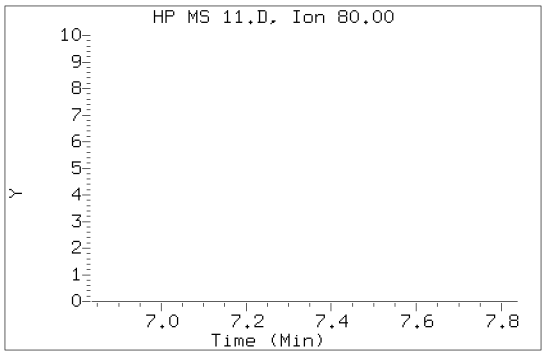
BEFORE

MASS
80
AREA
0
HEIGHT
0
19-Jun-2024
16:22
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
20-Jun-2024
08:53

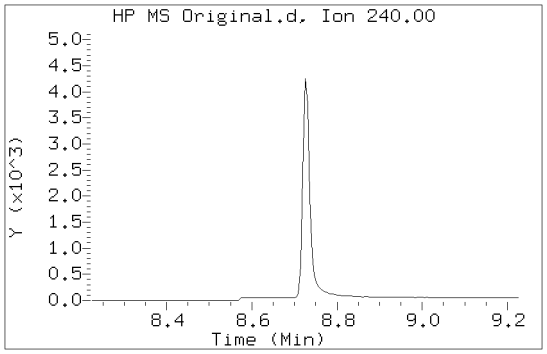


Chrysene-d12 (1719-03-5)

Reason Code:

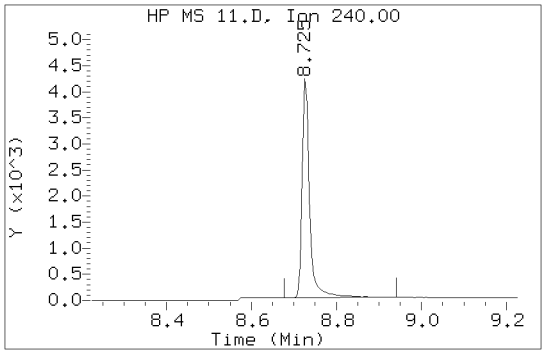
BEFORE

MASS
240
AREA
0
HEIGHT
0
19-Jun-2024
16:22
ALSHS
Server



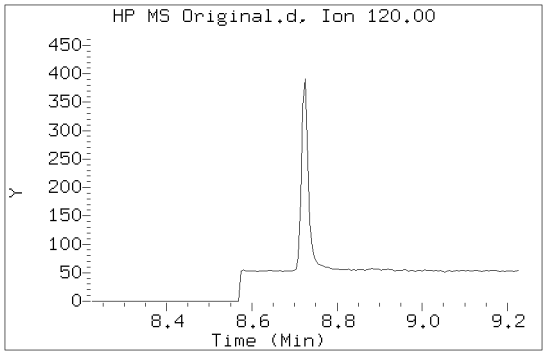
AFTER

MASS
240
AREA
5050
HEIGHT
4198
20-Jun-2024
08:53



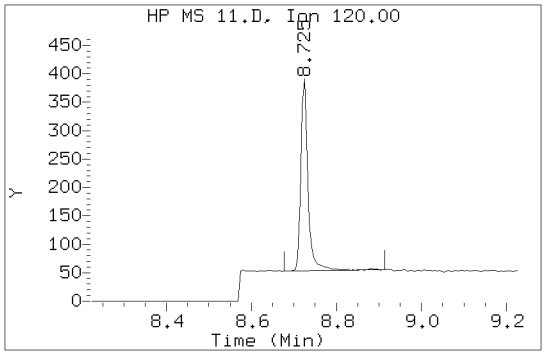
BEFORE

MASS
120
AREA
0
HEIGHT
0
19-Jun-2024
16:22
ALSHS
Server



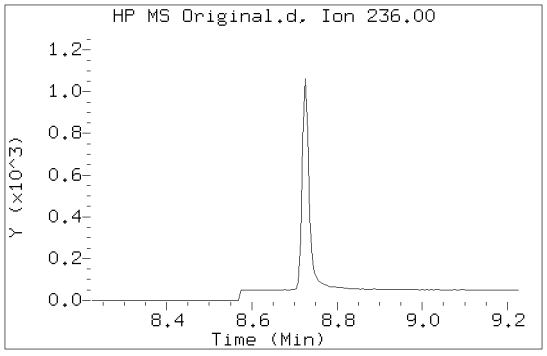
AFTER

MASS
120
AREA
389
HEIGHT
337
20-Jun-2024
08:53



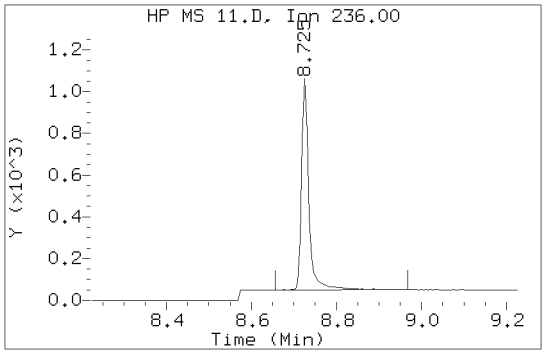
BEFORE

MASS
236
AREA
0
HEIGHT
0
19-Jun-2024
16:22
ALSHS
Server



AFTER

MASS
236
AREA
1181
HEIGHT
1011
20-Jun-2024
08:53

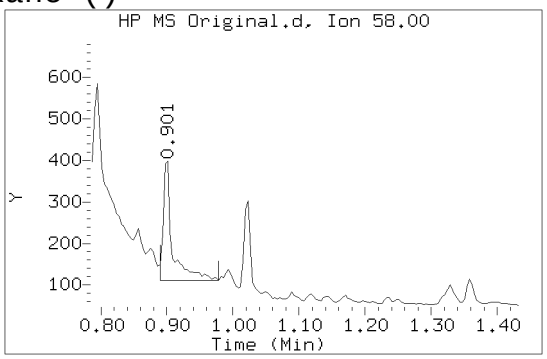


Data File : \\NAHSTWS005\Target\chem\SV6.i\240619.b\11.D
Inj Date : 19-JUN-2024 16:06
InstruID : SV6.i
LabSampID : HS24060293-02

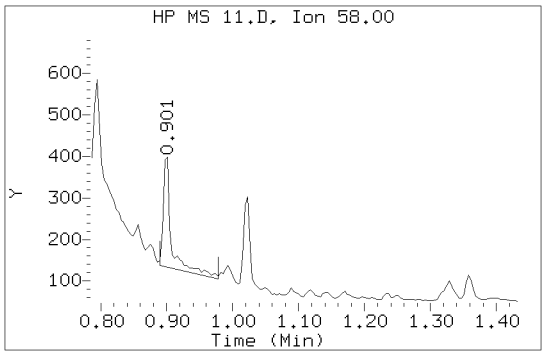
1,4-Dioxane ()

Reason Code:

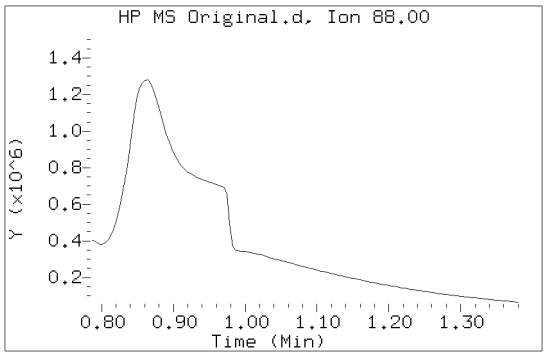
BEFORE
MASS
58
AREA
280
HEIGHT
288
19-Jun-2024
16:22
ALSHS
Server



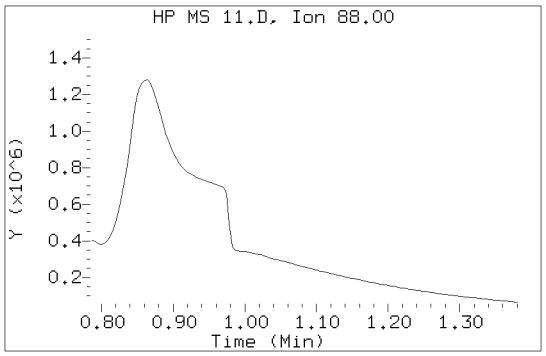
AFTER
MASS
58
AREA
222
HEIGHT
265
20-Jun-2024
08:53



BEFORE
MASS
88
AREA
11288911
HEIGHT
1221880
19-Jun-2024
16:22
ALSHS
Server



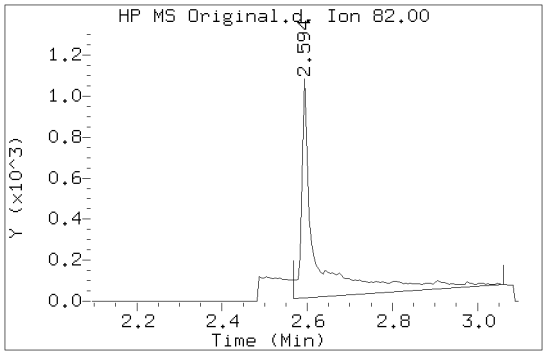
AFTER
MASS
88
AREA
6627468
HEIGHT
969802
20-Jun-2024
08:53



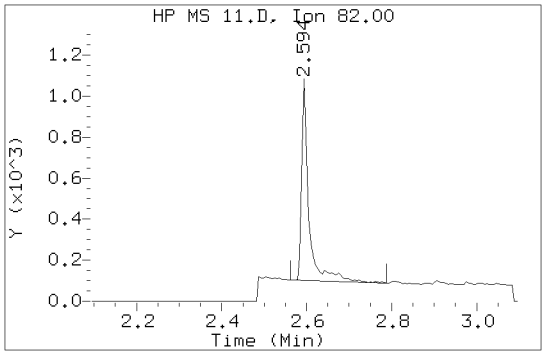
Nitrobenzene-d5 (4165-60-0)

Reason Code:

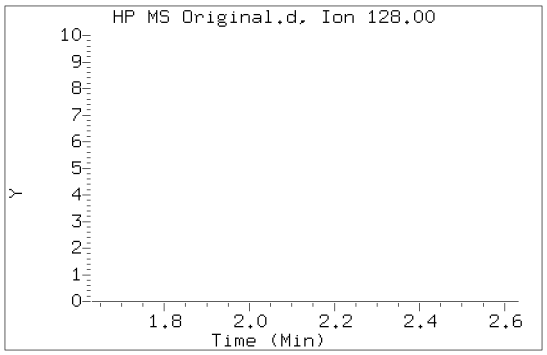
BEFORE
MASS
82
AREA
2481
HEIGHT
1068
19-Jun-2024
16:22
ALSHS
Server



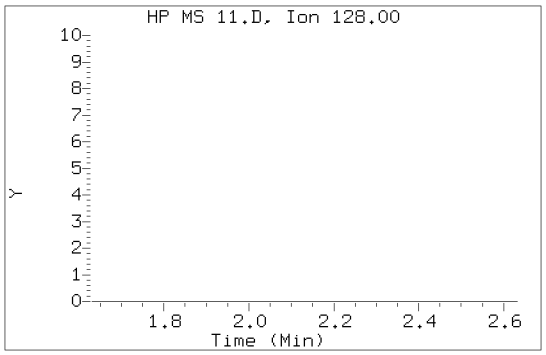
AFTER
MASS
82
AREA
1161
HEIGHT
983
20-Jun-2024
08:53



BEFORE
MASS
128
AREA
0
HEIGHT
0
19-Jun-2024
16:22
ALSHS
Server



AFTER
MASS
128
AREA
0
HEIGHT
0
20-Jun-2024
08:53



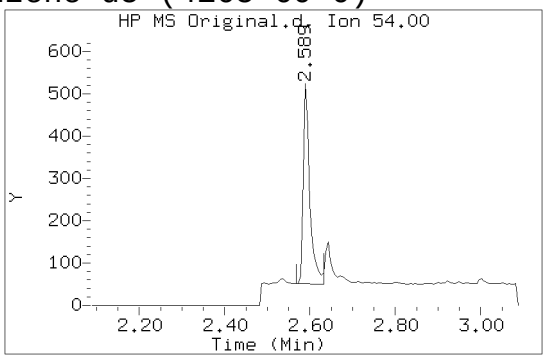
Data File : \\NAHSTWS005\Target\chem\SV6.i\240619.b\11.D
Inj Date : 19-JUN-2024 16:06
InstruID : SV6.i
LabSampID : HS24060293-02

Nitrobenzene-d5 (4165-60-0)

Reason Code:

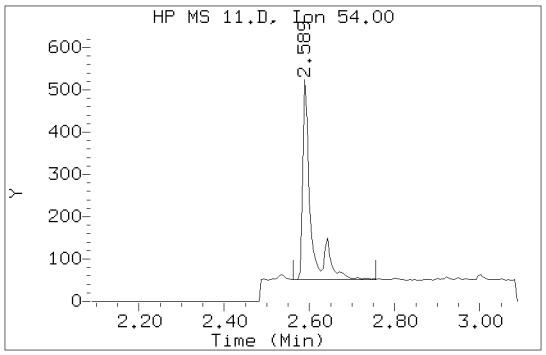
BEFORE

MASS
54
AREA
492
HEIGHT
472
19-Jun-2024
16:22
ALSHS
Server



AFTER

MASS
54
AREA
611
HEIGHT
472
20-Jun-2024
08:53

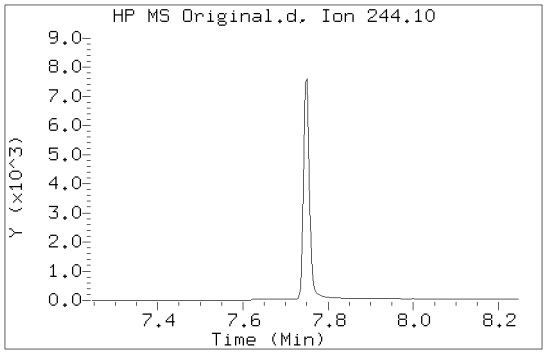


4-Terphenyl-d14 (1718-51-0)

Reason Code:

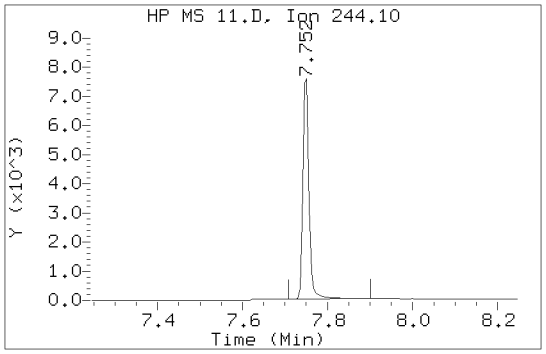
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
19-Jun-2024
16:22
ALSHS
Server



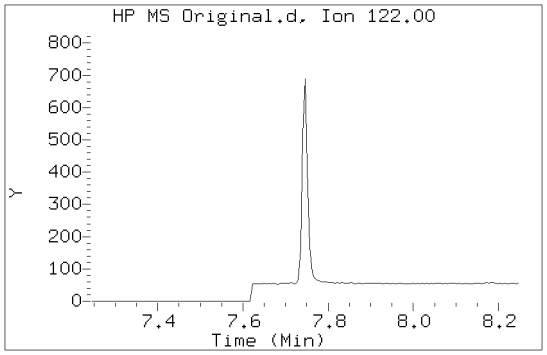
AFTER

MASS
244.1
AREA
7507
HEIGHT
7549
20-Jun-2024
08:53



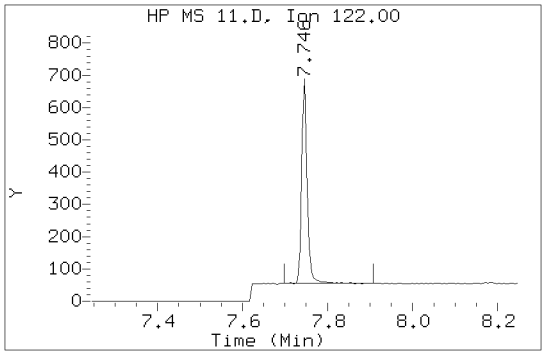
BEFORE

MASS
122
AREA
0
HEIGHT
0
19-Jun-2024
16:22
ALSHS
Server



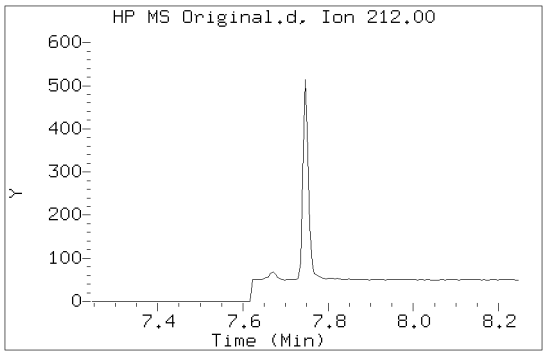
AFTER

MASS
122
AREA
575
HEIGHT
634
20-Jun-2024
08:53



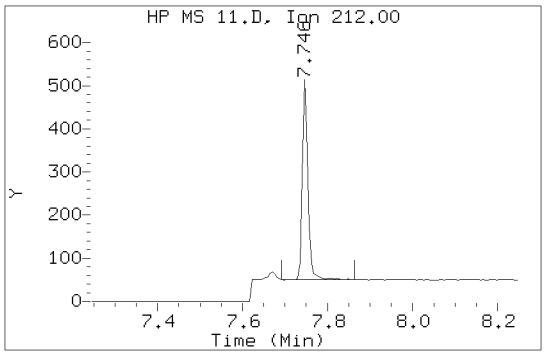
BEFORE

MASS
212
AREA
0
HEIGHT
0
19-Jun-2024
16:22
ALSHS
Server



AFTER

MASS
212
AREA
417
HEIGHT
463
20-Jun-2024
08:53

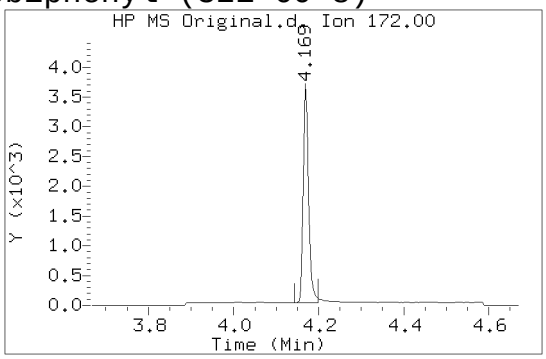


Data File : \\NAHSTWS005\Target\chem\SV6.i\240619.b\11.D
Inj Date : 19-JUN-2024 16:06
InstruID : SV6.i
LabSampID : HS24060293-02

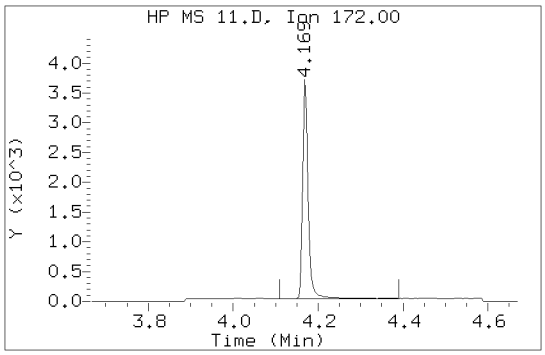
2-Fluorobiphenyl (321-60-8)

Reason Code:

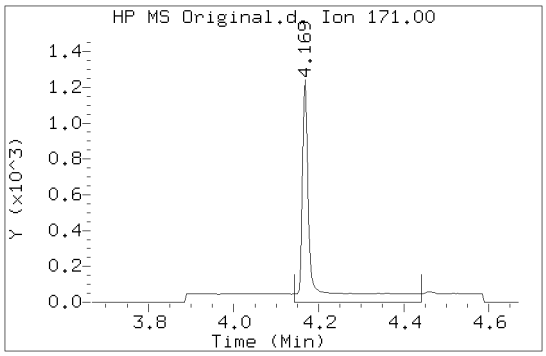
BEFORE
MASS
172
AREA
3138
HEIGHT
3679
19-Jun-2024
16:22
ALSHS
Server



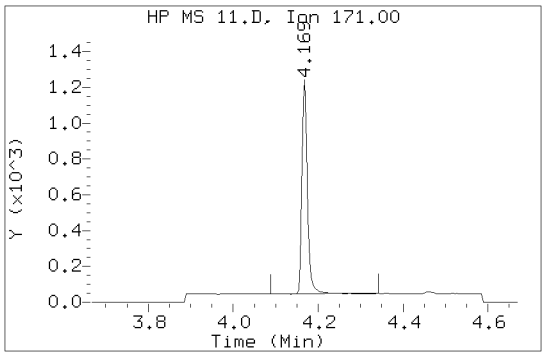
AFTER
MASS
172
AREA
3247
HEIGHT
3677
20-Jun-2024
08:53



BEFORE
MASS
171
AREA
1922
HEIGHT
1242
19-Jun-2024
16:22
ALSHS
Server



AFTER
MASS
171
AREA
1053
HEIGHT
1195
20-Jun-2024
08:53



Data File: \\NAHSTWS005\Target\chem\SV6.i\240619.b\12.D Page 1
Report Date: 15-Jul-2024 09:40

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240619.b\12.D
Lab Smp Id: HS24060293-03
Inj Date : 19-JUN-2024 16:23
Operator : LG Inst ID: SV6.i
Smp Info : HS24060293-03
Misc Info : ;;0;1;
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240619.b\DXSIM.m
Meth Date : 15-Jul-2024 09:40 SV6.i Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7014

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	2.186	2.186	(1.000)	1949	0.10000	(aM)
* 45 Naphthalene-d8	136	3.176	3.176	(1.000)	5936	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.594	2.594	(0.817)	1338	0.07508	0.07508(M)
* 86 Acenaphthene-d10	164	4.776	4.776	(1.000)	3593	0.10000	
$ 69 2-Fluorobiphenyl	172	4.168	4.168	(0.873)	3675	0.06691	0.06691
* 126 Phenanthrene-d10	188	6.181	6.181	(1.000)	7109	0.10000	(M)
* 182 Chrysene-d12	240	8.725	8.725	(1.000)	6280	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.751	7.746	(0.888)	8934	0.06983	0.06983(M)
* 198 Perylene-d12	264	10.371	10.365	(1.000)	6467	0.10000	(M)
1 1,4-Dioxane	58	0.908	0.930	(0.415)	498	0.11929	0.1193(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240619.b\12.D

Date : 19-JUN-2024 16:23

Client ID:

Instrument: SV6.i

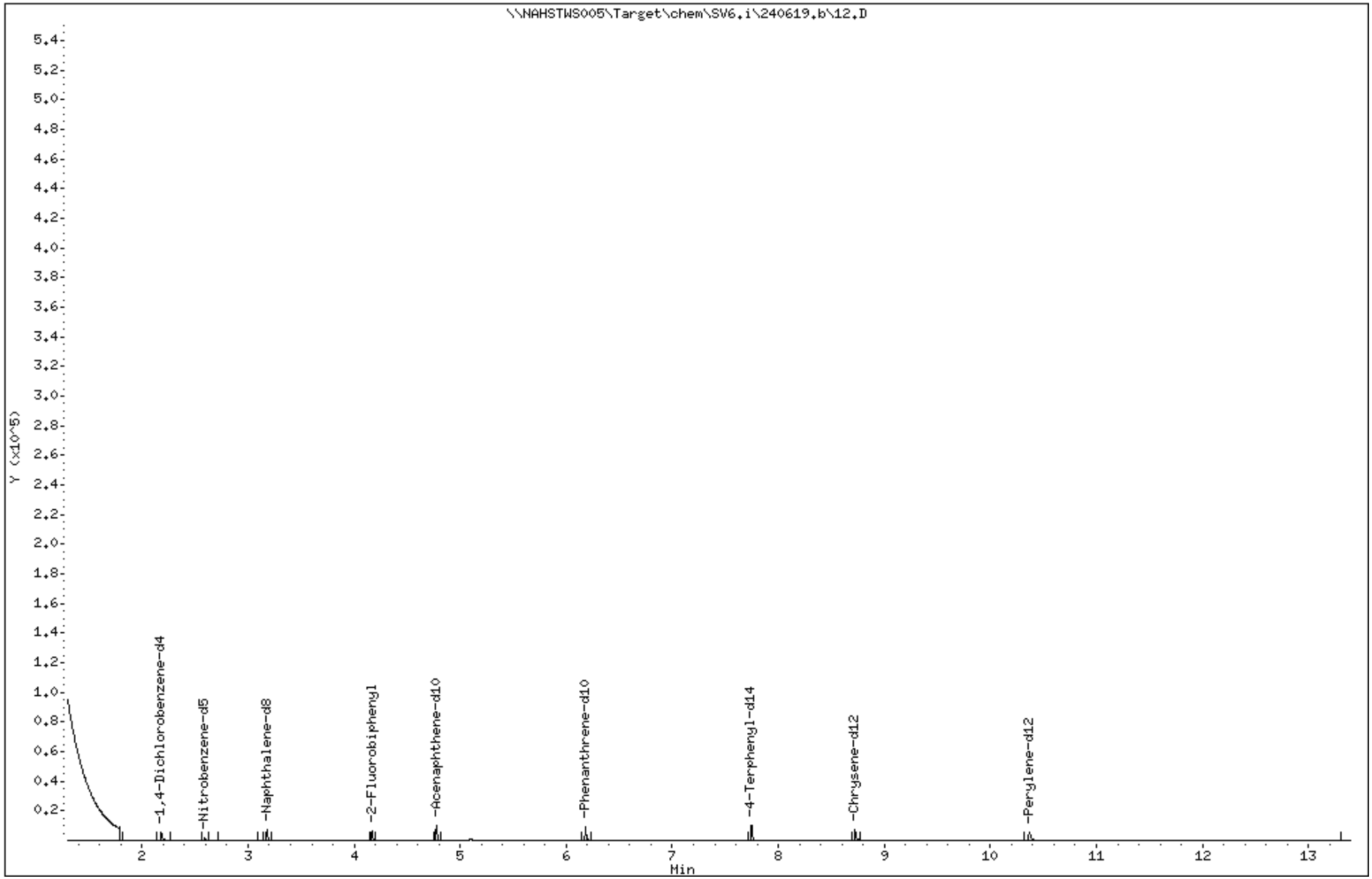
Sample Info: HS24060293-03

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\240619.b\12.D

Date : 19-JUN-2024 16:23

Client ID:

Instrument: SV6.i

Sample Info: HS24060293-03

Purge Volume: 1000.0

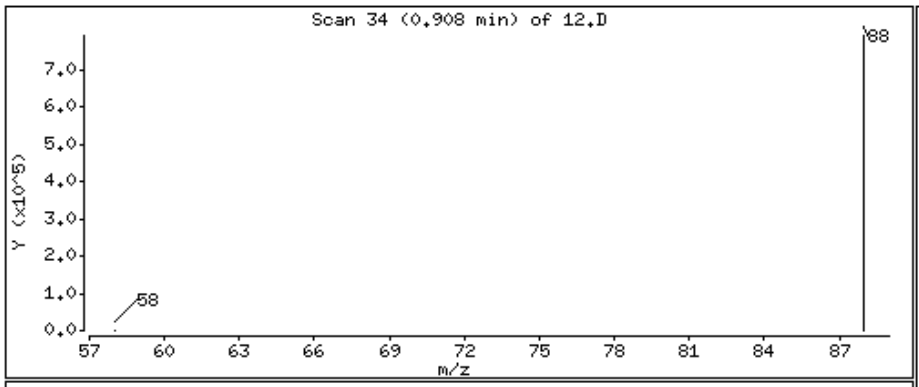
Operator: LG

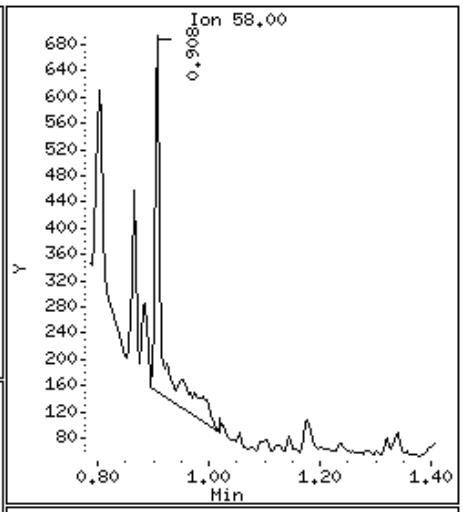
Column phase: RTX-5SIL MS

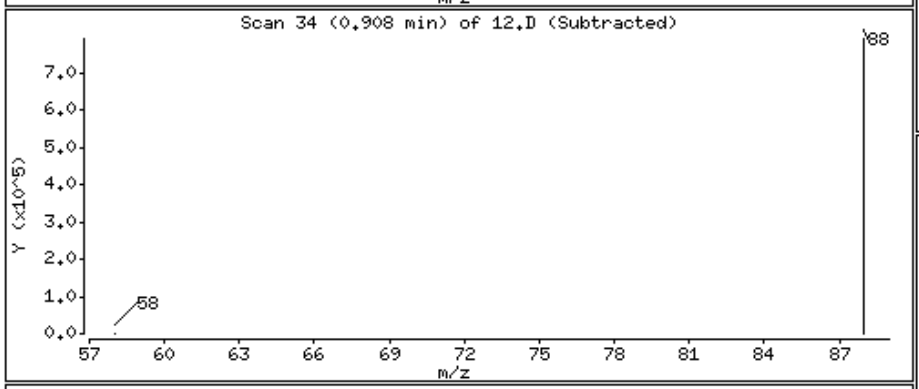
Column diameter: 0.28

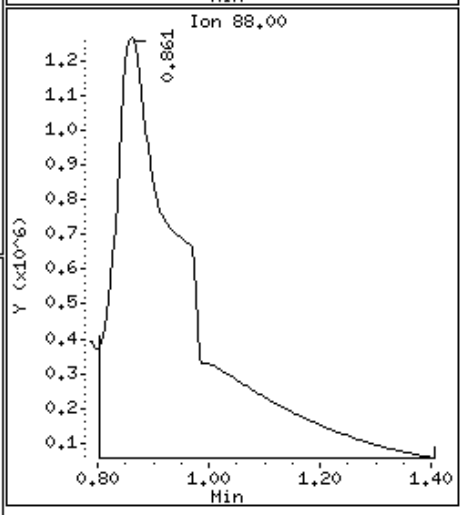
1 1,4-Dioxane

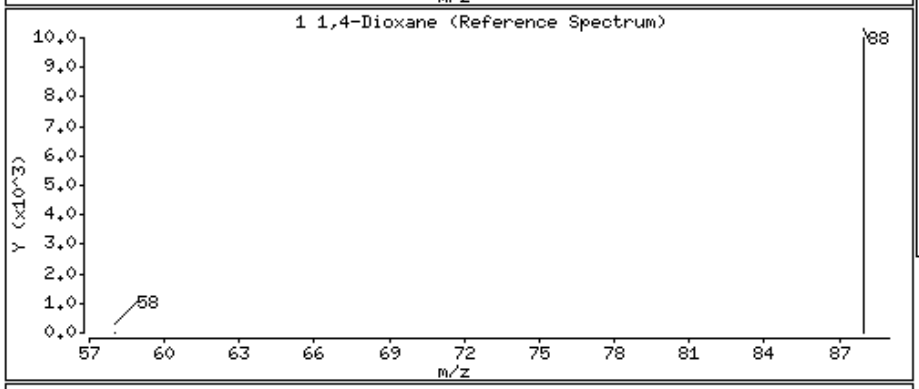
Concentration: 0.1193 ug/L

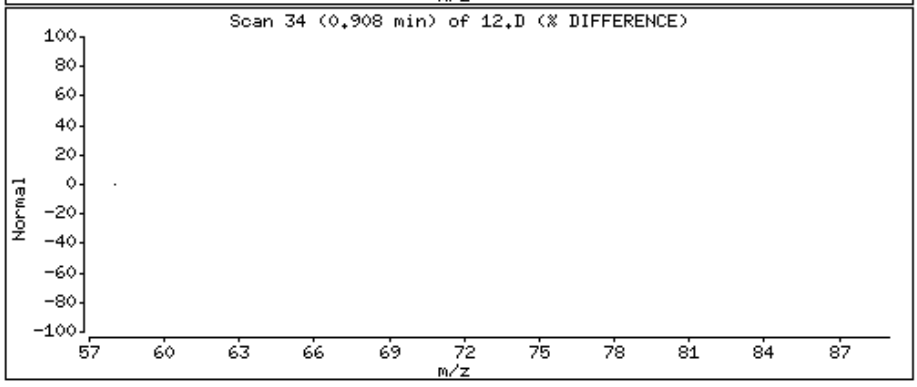












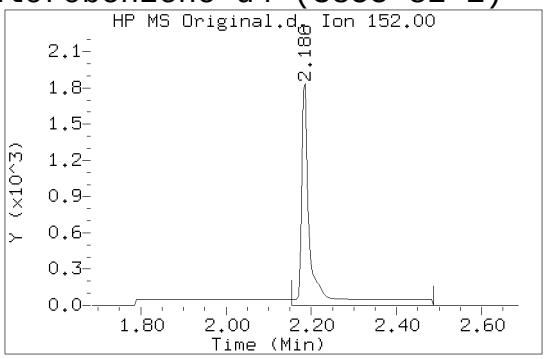
Data File : \\NAHSTWS005\Target\chem\SV6.i\240619.b\12.D
Inj Date : 19-JUN-2024 16:23
InstruID : SV6.i
LabSampID : HS24060293-03

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

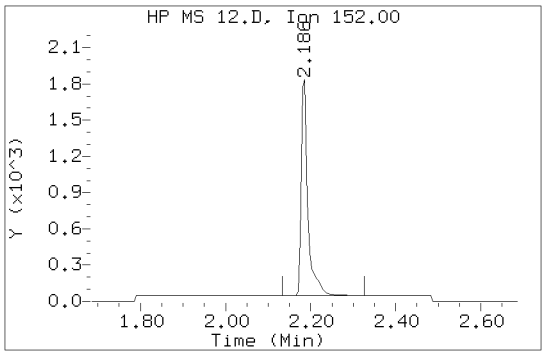
BEFORE

MASS
152
AREA
2907
HEIGHT
1835
19-Jun-2024
16:38
ALSHS
Server



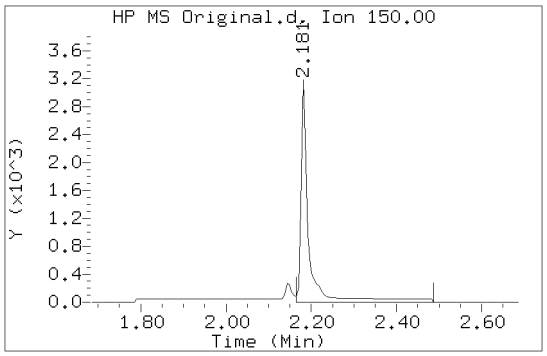
AFTER

MASS
152
AREA
1949
HEIGHT
1787
15-Jul-2024
09:39
ALSHS



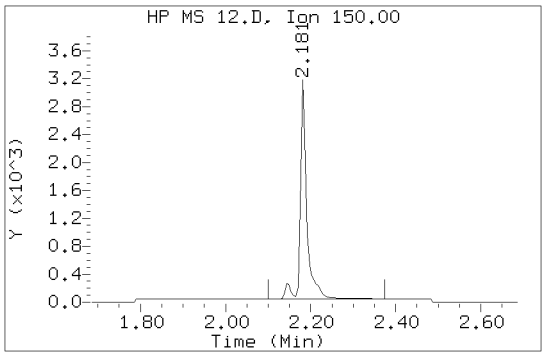
BEFORE

MASS
150
AREA
4065
HEIGHT
3183
19-Jun-2024
16:38
ALSHS
Server



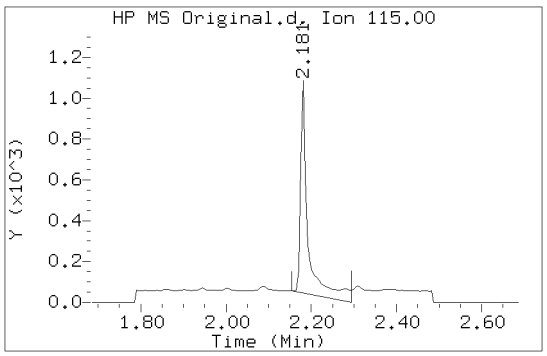
AFTER

MASS
150
AREA
3336
HEIGHT
3135
15-Jul-2024
09:39
ALSHS



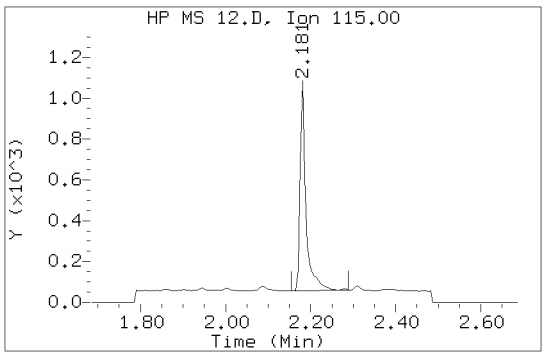
BEFORE

MASS
115
AREA
1256
HEIGHT
1041
19-Jun-2024
16:38
ALSHS
Server



AFTER

MASS
115
AREA
990
HEIGHT
1029
15-Jul-2024
09:39
ALSHS

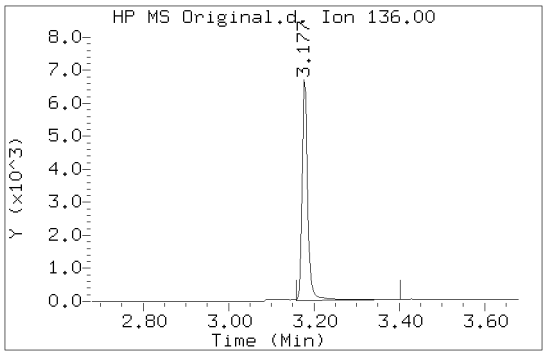


Naphthalene-d8 (1146-65-2)

Reason Code:

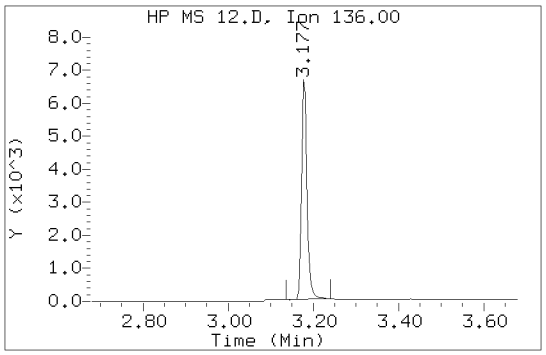
BEFORE

MASS
136
AREA
6374
HEIGHT
6700
19-Jun-2024
16:38
ALSHS
Server



AFTER

MASS
136
AREA
5936
HEIGHT
6653
15-Jul-2024
09:39
ALSHS



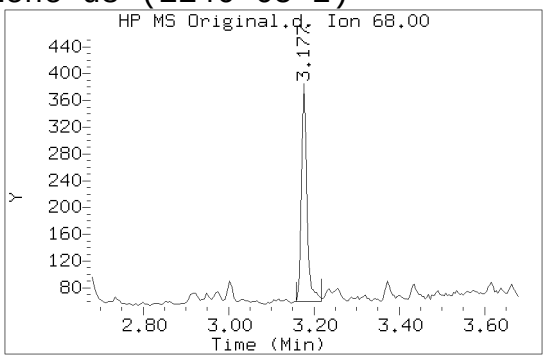
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Inj Date : 19-JUN-2024 16:23
InstruID : SV6.i
LabSampID : HS24060293-03

Naphthalene-d8 (1146-65-2)

Reason Code:

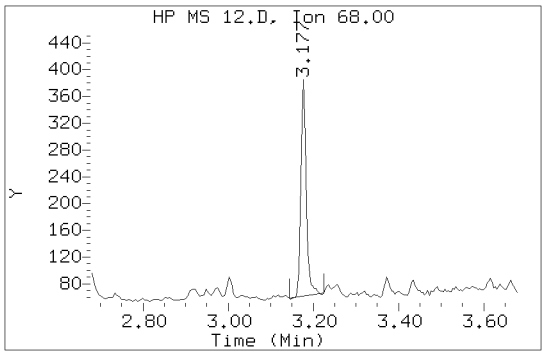
BEFORE

MASS
68
AREA
292
HEIGHT
325
19-Jun-2024
16:38
ALSHS
Server



AFTER

MASS
68
AREA
281
HEIGHT
323
15-Jul-2024
09:39
ALSHS

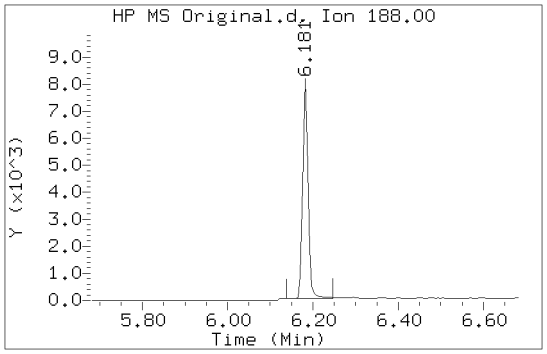


Phenanthrene-d10 (1517-22-2)

Reason Code:

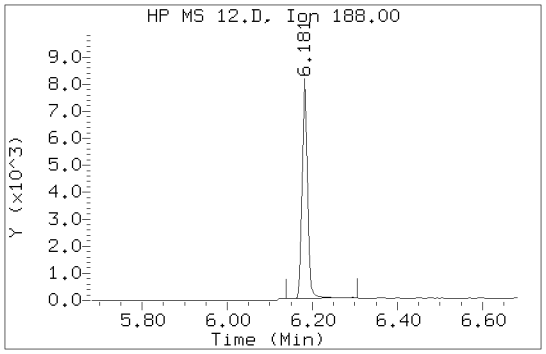
BEFORE

MASS
188
AREA
7102
HEIGHT
8133
19-Jun-2024
16:38
ALSHS
Server



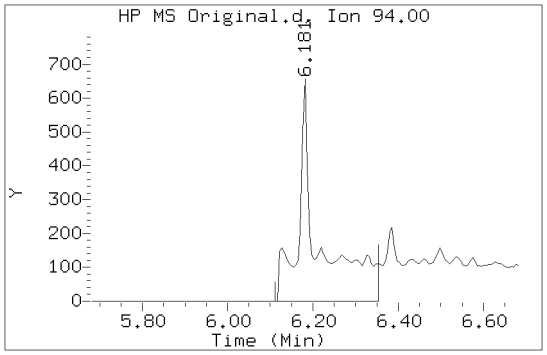
AFTER

MASS
188
AREA
7109
HEIGHT
8128
15-Jul-2024
09:39
ALSHS



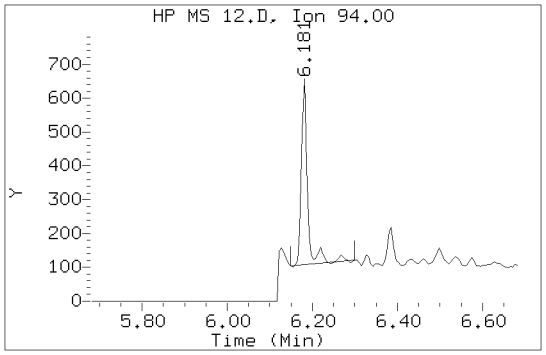
BEFORE

MASS
94
AREA
2182
HEIGHT
657
19-Jun-2024
16:38
ALSHS
Server



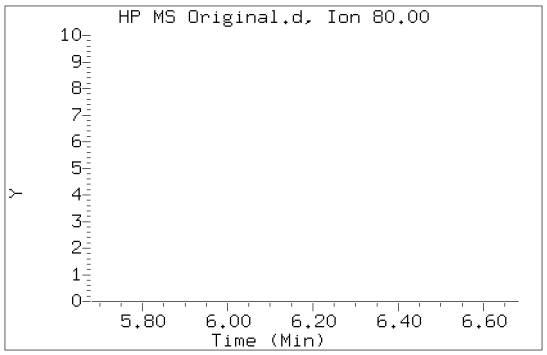
AFTER

MASS
94
AREA
532
HEIGHT
549
15-Jul-2024
09:39
ALSHS



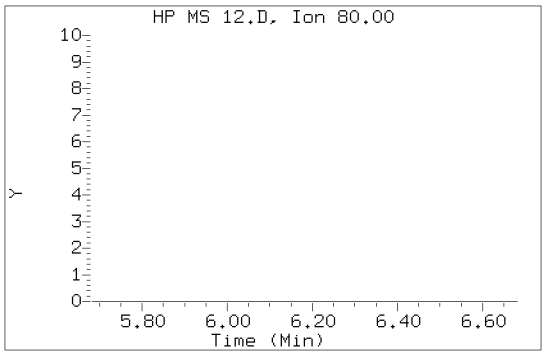
BEFORE

MASS
80
AREA
0
HEIGHT
0
19-Jun-2024
16:38
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
15-Jul-2024
09:39
ALSHS

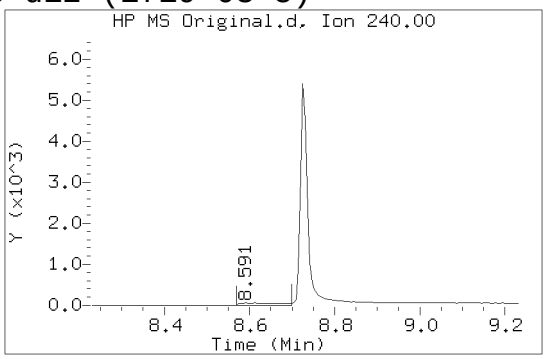


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Inj Date : 19-JUN-2024 16:23
InstruID : SV6.i
LabSampID : HS24060293-03

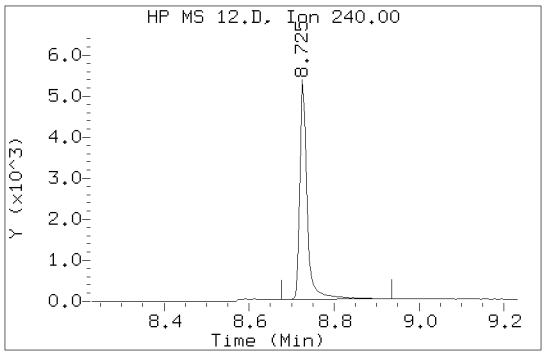
Chrysene-d12 (1719-03-5)

Reason Code:

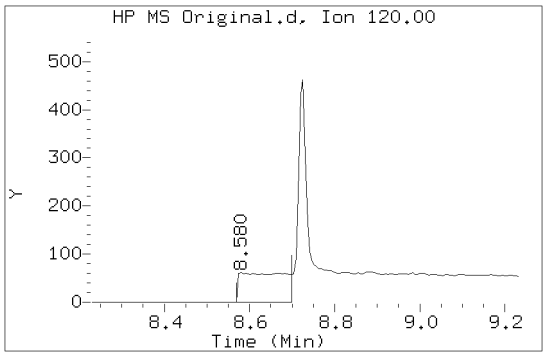
BEFORE
MASS
240
AREA
412
HEIGHT
55
19-Jun-2024
16:38
ALSHS
Server



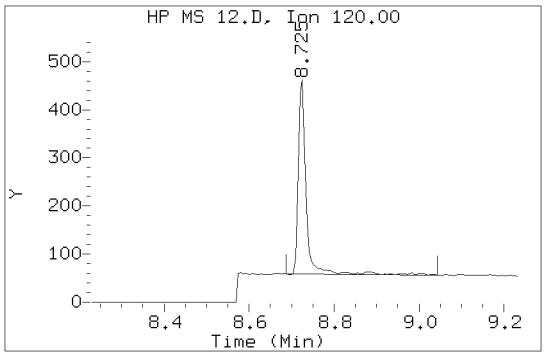
AFTER
MASS
240
AREA
6280
HEIGHT
5348
15-Jul-2024
09:39
ALSHS



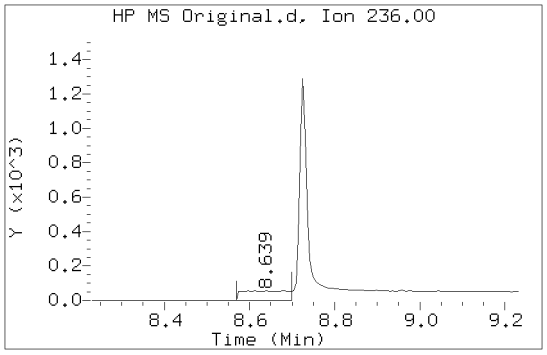
BEFORE
MASS
120
AREA
456
HEIGHT
61
19-Jun-2024
16:38
ALSHS
Server



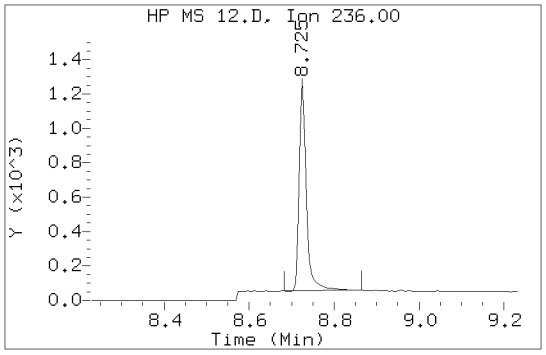
AFTER
MASS
120
AREA
517
HEIGHT
403
15-Jul-2024
09:39
ALSHS



BEFORE
MASS
236
AREA
417
HEIGHT
56
19-Jun-2024
16:38
ALSHS
Server



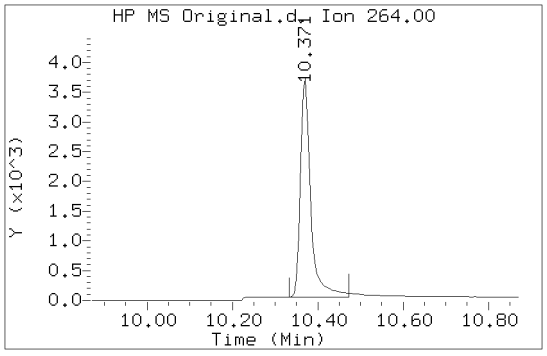
AFTER
MASS
236
AREA
1424
HEIGHT
1233
15-Jul-2024
09:39
ALSHS



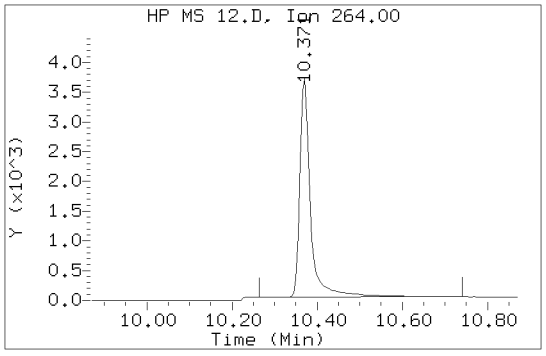
Perylene-d12 (1520-96-3)

Reason Code:

BEFORE
MASS
264
AREA
6220
HEIGHT
3677
19-Jun-2024
16:38
ALSHS
Server



AFTER
MASS
264
AREA
6467
HEIGHT
3675
15-Jul-2024
09:39
ALSHS



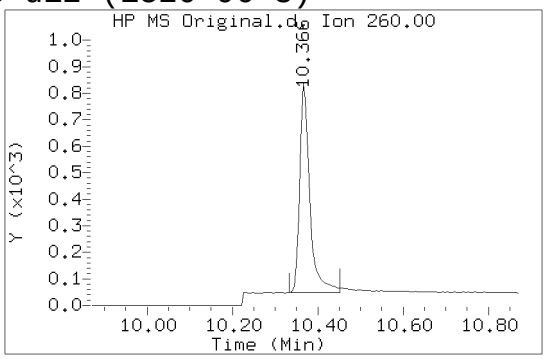
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Inj Date : 19-JUN-2024 16:23
InstruID : SV6.i
LabSampID : HS24060293-03

Perylene-d12 (1520-96-3)

Reason Code:

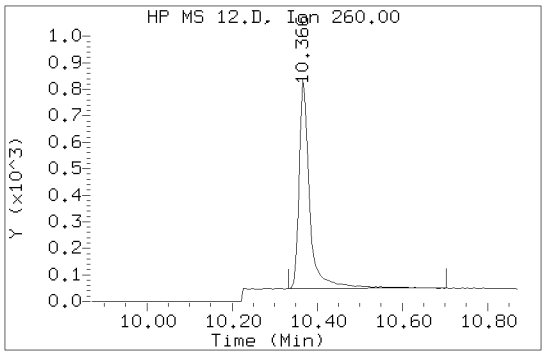
BEFORE

MASS
260
AREA
1298
HEIGHT
788
19-Jun-2024
16:38
ALSHS
Server



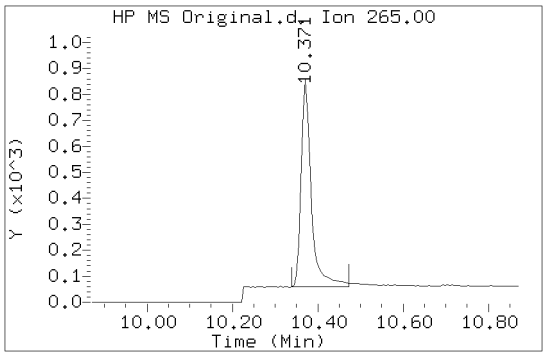
AFTER

MASS
260
AREA
1362
HEIGHT
787
15-Jul-2024
09:39
ALSHS



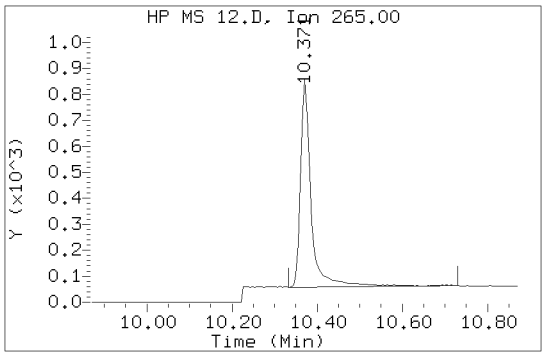
BEFORE

MASS
265
AREA
1320
HEIGHT
797
19-Jun-2024
16:38
ALSHS
Server



AFTER

MASS
265
AREA
1366
HEIGHT
797
15-Jul-2024
09:39
ALSHS

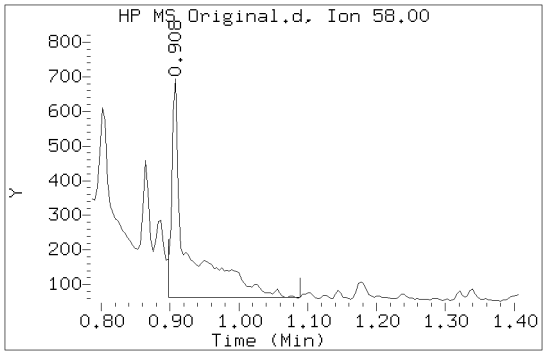


1,4-Dioxane ()

Reason Code:

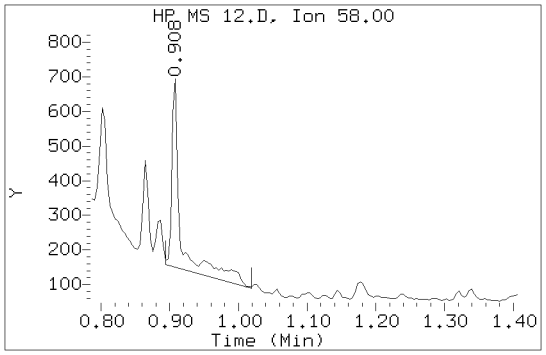
BEFORE

MASS
58
AREA
980
HEIGHT
630
19-Jun-2024
16:38
ALSHS
Server



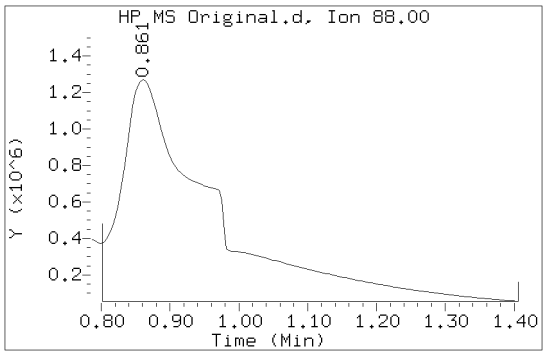
AFTER

MASS
58
AREA
498
HEIGHT
545
15-Jul-2024
09:39
ALSHS



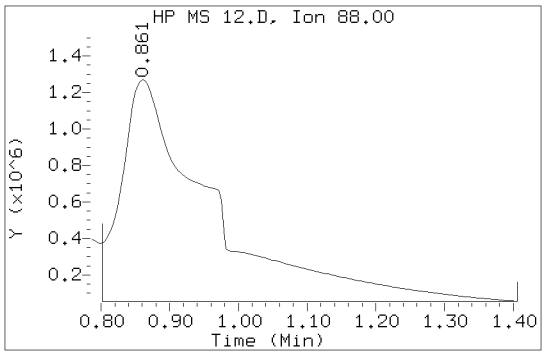
BEFORE

MASS
88
AREA
11134097
HEIGHT
1213968
19-Jun-2024
16:38
ALSHS
Server



AFTER

MASS
88
AREA
11134097
HEIGHT
1213968
15-Jul-2024
09:39
ALSHS

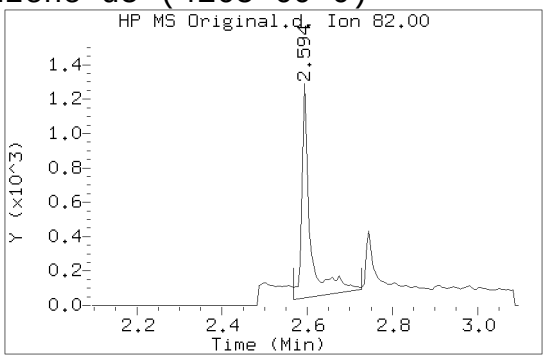


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Inj Date : 19-JUN-2024 16:23
InstruID : SV6.i
LabSampID : HS24060293-03

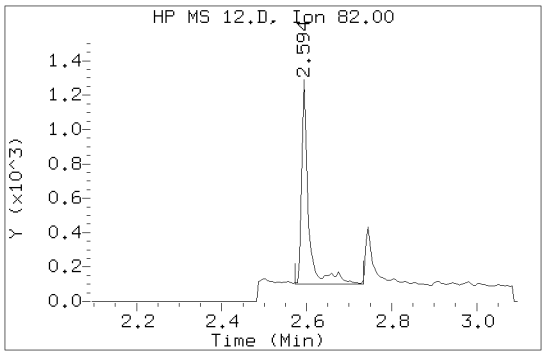
Nitrobenzene-d5 (4165-60-0)

Reason Code:

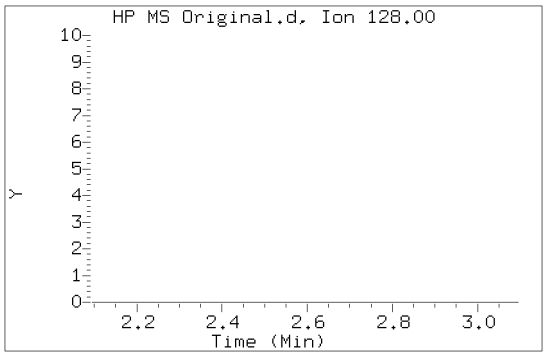
BEFORE
MASS
82
AREA
1712
HEIGHT
1246
19-Jun-2024
16:38
ALSHS
Server



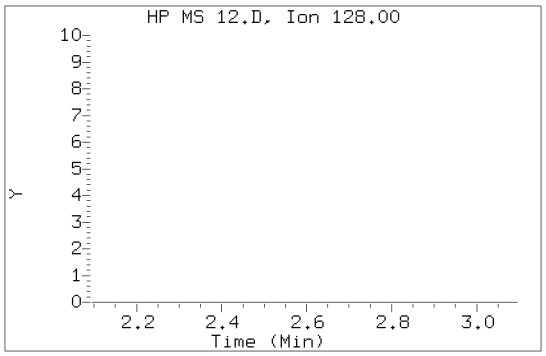
AFTER
MASS
82
AREA
1338
HEIGHT
1188
15-Jul-2024
09:39
ALSHS



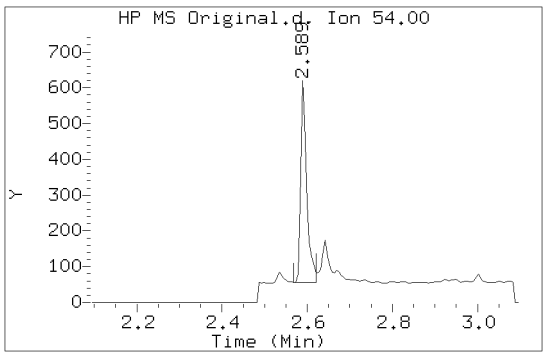
BEFORE
MASS
128
AREA
0
HEIGHT
0
19-Jun-2024
16:38
ALSHS
Server



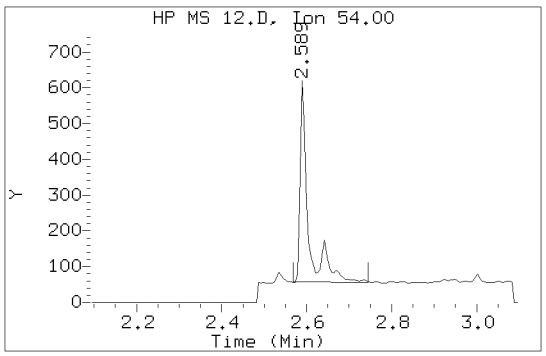
AFTER
MASS
128
AREA
0
HEIGHT
0
15-Jul-2024
09:39
ALSHS



BEFORE
MASS
54
AREA
562
HEIGHT
565
19-Jun-2024
16:38
ALSHS
Server



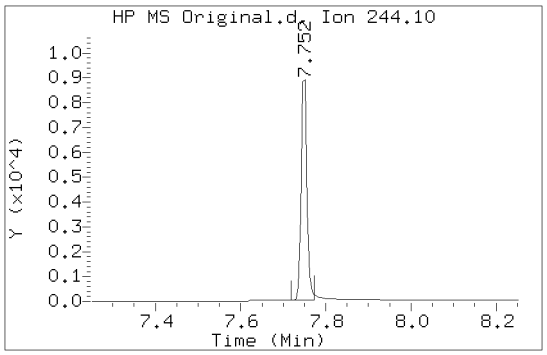
AFTER
MASS
54
AREA
744
HEIGHT
562
15-Jul-2024
09:39
ALSHS



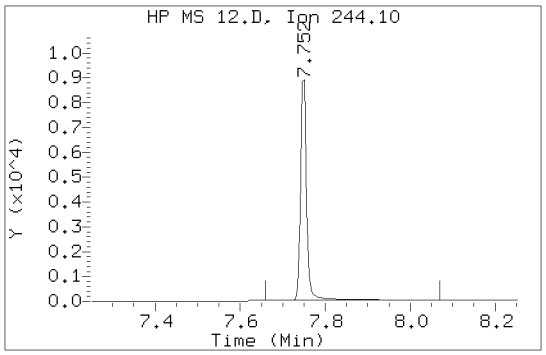
4-Terphenyl-d14 (1718-51-0)

Reason Code:

BEFORE
MASS
244.1
AREA
8637
HEIGHT
8869
19-Jun-2024
16:38
ALSHS
Server



AFTER
MASS
244.1
AREA
8934
HEIGHT
8871
15-Jul-2024
09:39
ALSHS

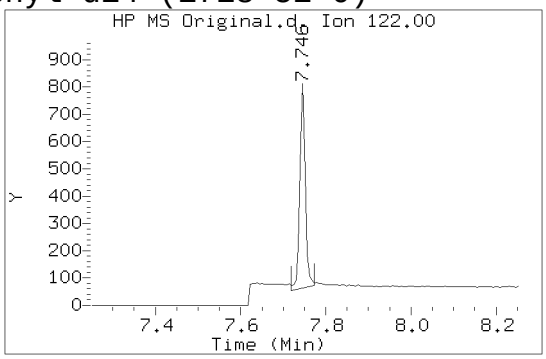


Data File : \\NAHSTWS005\Target\chem\SV6.i\240619.b\12.D
Inj Date : 19-JUN-2024 16:23
InstruID : SV6.i
LabSampID : HS24060293-03

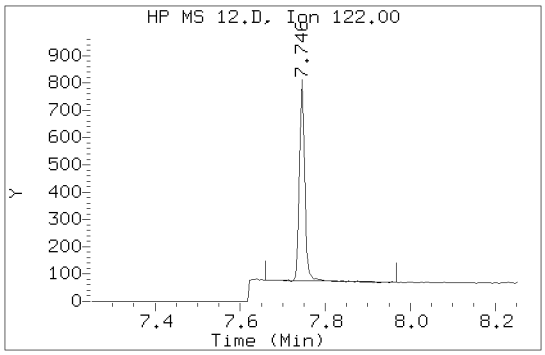
4-Terphenyl-d14 (1718-51-0)

Reason Code:

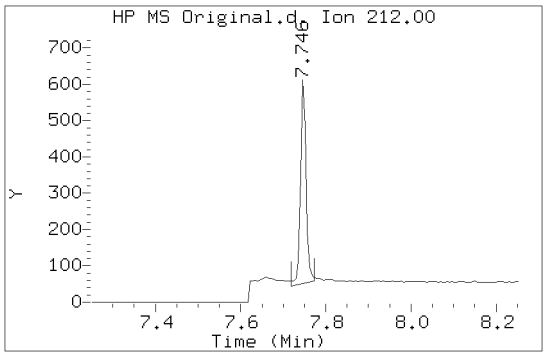
BEFORE
MASS
122
AREA
682
HEIGHT
748
19-Jun-2024
16:38
ALSHS
Server



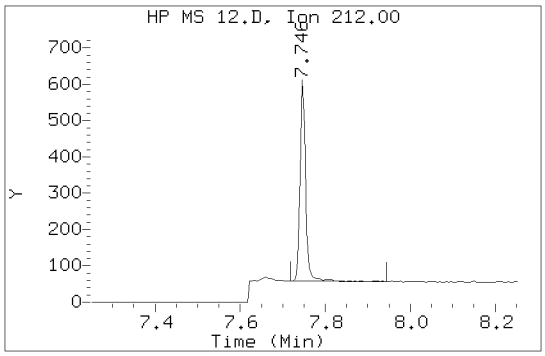
AFTER
MASS
122
AREA
642
HEIGHT
736
15-Jul-2024
09:39
ALSHS



BEFORE
MASS
212
AREA
519
HEIGHT
560
19-Jun-2024
16:38
ALSHS
Server



AFTER
MASS
212
AREA
518
HEIGHT
554
15-Jul-2024
09:39
ALSHS



Data File: \\NAHSTWS005\Target\chem\SV6.i\240619.b\13.D Page 1
Report Date: 20-Jun-2024 08:56

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240619.b\13.D
Lab Smp Id: HS24060293-04
Inj Date : 19-JUN-2024 16:41
Operator : LG Inst ID: SV6.i
Smp Info : HS24060293-04
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240619.b\DXSIM.m
Meth Date : 19-Jun-2024 13:45 marco.guti Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	2.186	2.186	(1.000)	2329	0.10000	(aM)
* 45 Naphthalene-d8	136	3.176	3.176	(1.000)	7281	0.10000	
$ 33 Nitrobenzene-d5	82	2.594	2.594	(0.817)	1575	0.07206	0.07206(M)
* 86 Acenaphthene-d10	164	4.776	4.776	(1.000)	4251	0.10000	
$ 69 2-Fluorobiphenyl	172	4.168	4.168	(0.873)	4434	0.06823	0.06823(M)
* 126 Phenanthrene-d10	188	6.181	6.181	(1.000)	8343	0.10000	(M)
* 182 Chrysene-d12	240	8.725	8.725	(1.000)	7527	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.746	7.746	(0.888)	10609	0.06919	0.06919(M)
* 198 Perylene-d12	264	10.371	10.365	(1.000)	7457	0.10000	
1 1,4-Dioxane	58	0.912	0.930	(0.417)	649	0.13010	0.1301(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240619.b\13.D

Date : 19-JUN-2024 16:41

Client ID:

Instrument: SV6.i

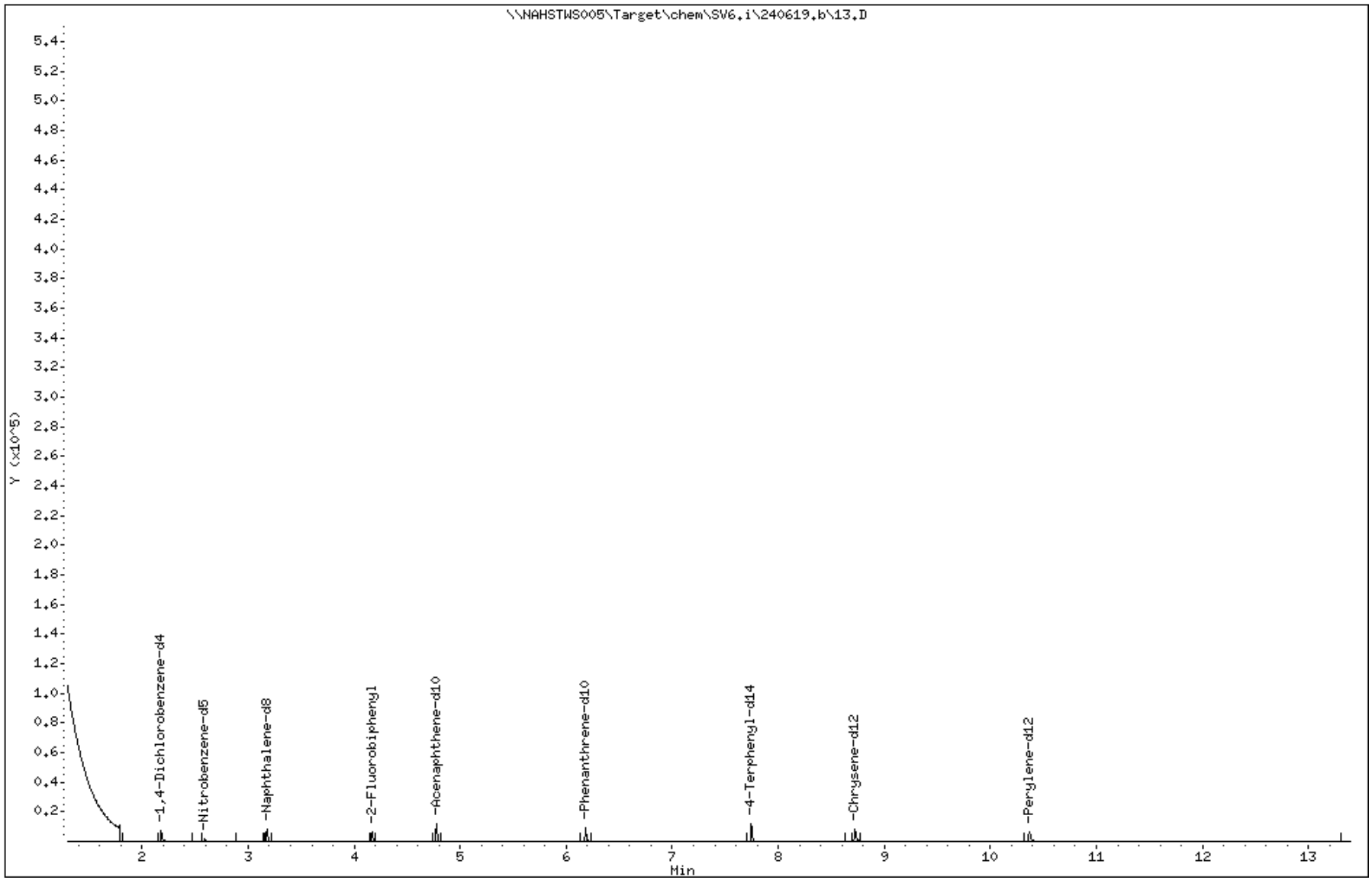
Sample Info: HS24060293-04

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\240619.b\13.D

Date : 19-JUN-2024 16:41

Client ID:

Instrument: SV6.i

Sample Info: HS24060293-04

Purge Volume: 1000.0

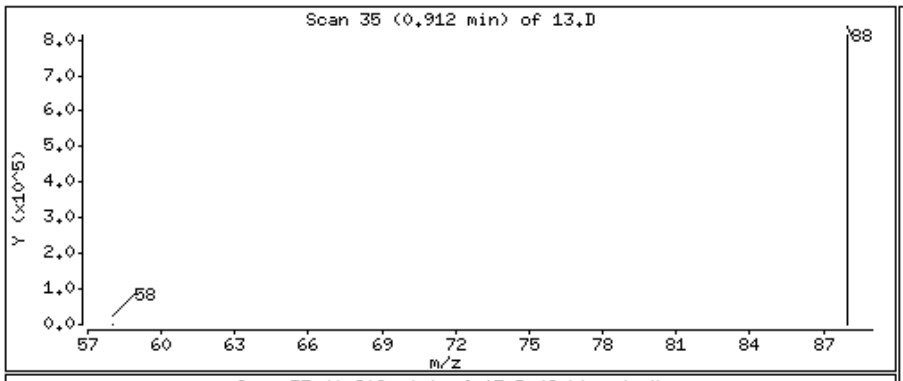
Operator: LG

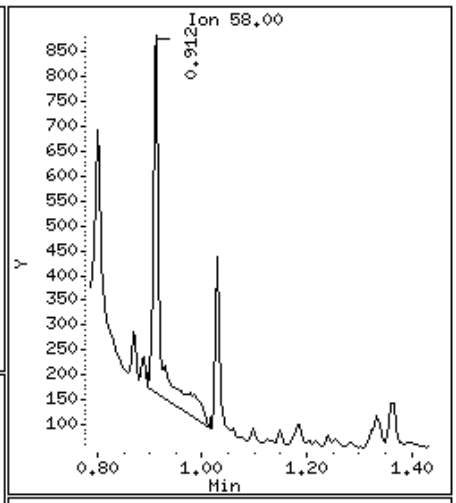
Column phase: RTX-5SIL MS

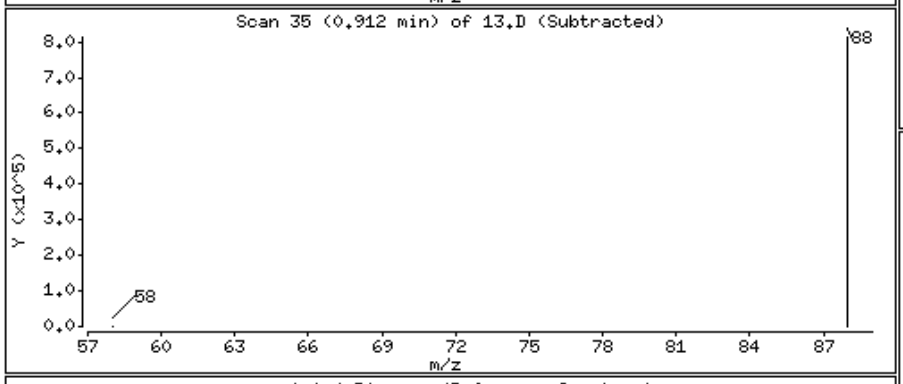
Column diameter: 0.28

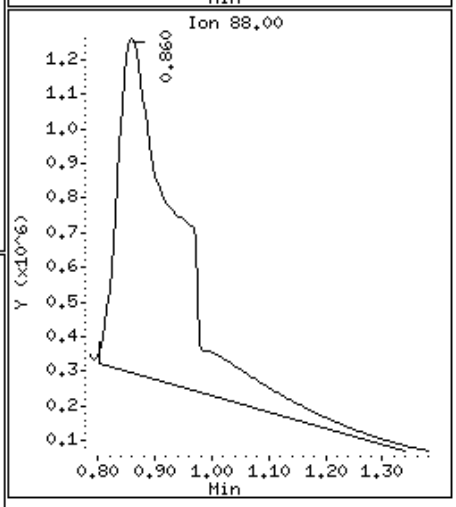
1 1,4-Dioxane

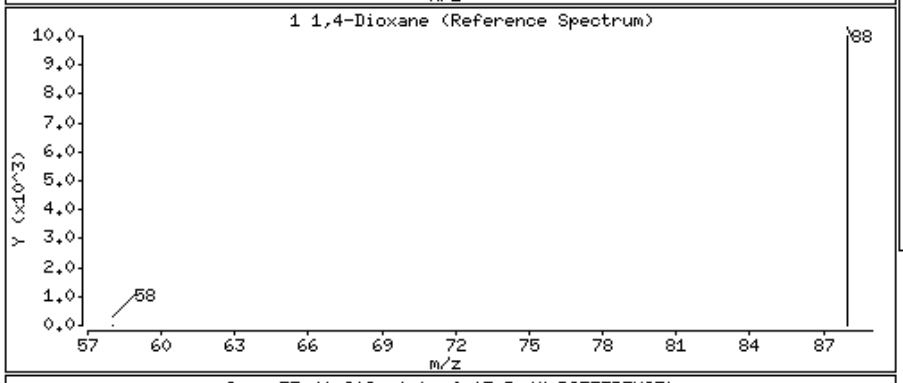
Concentration: 0.1301 ug/L

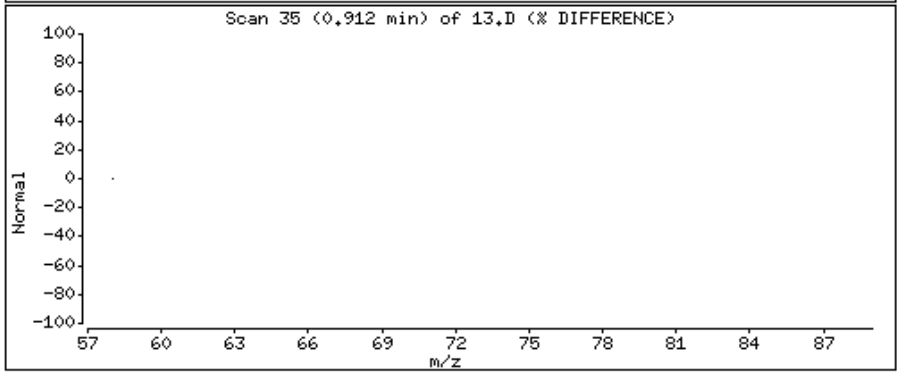












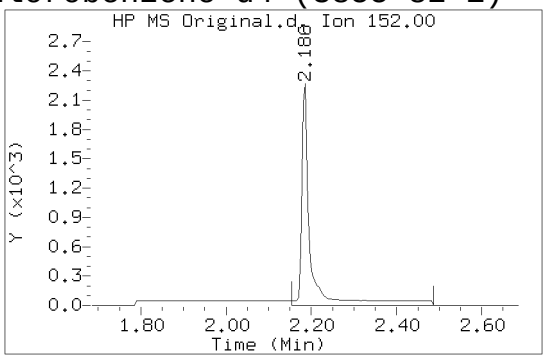
Data File : \\NAHSTWS005\Target\chem\SV6.i\240619.b\13.D
Inj Date : 19-JUN-2024 16:41
InstruID : SV6.i
LabSampID : HS24060293-04

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

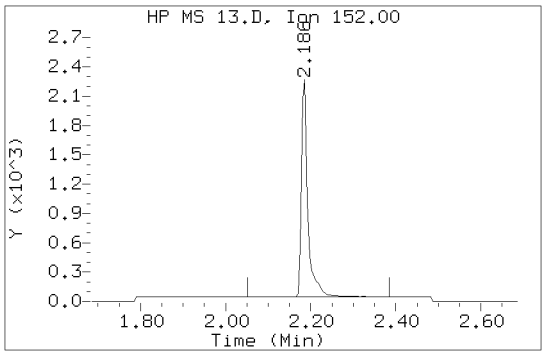
BEFORE

MASS
152
AREA
3272
HEIGHT
2269
19-Jun-2024
16:58
ALSHS
Server



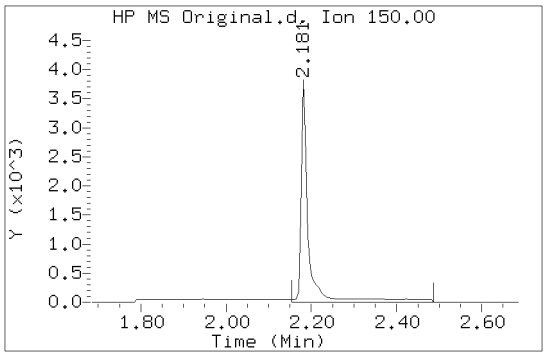
AFTER

MASS
152
AREA
2329
HEIGHT
2222
20-Jun-2024
08:56



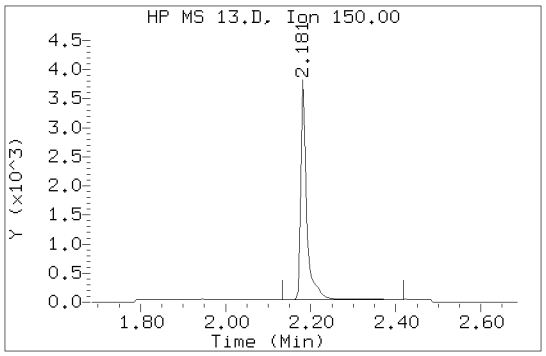
BEFORE

MASS
150
AREA
4613
HEIGHT
3824
19-Jun-2024
16:58
ALSHS
Server



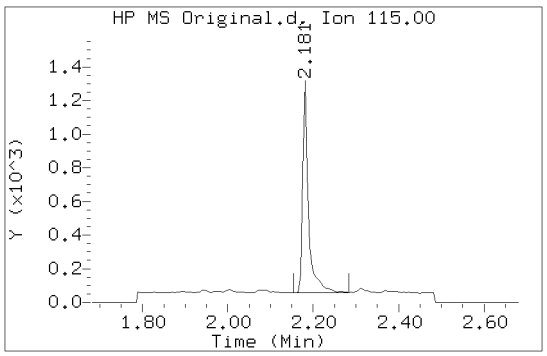
AFTER

MASS
150
AREA
3653
HEIGHT
3776
20-Jun-2024
08:56



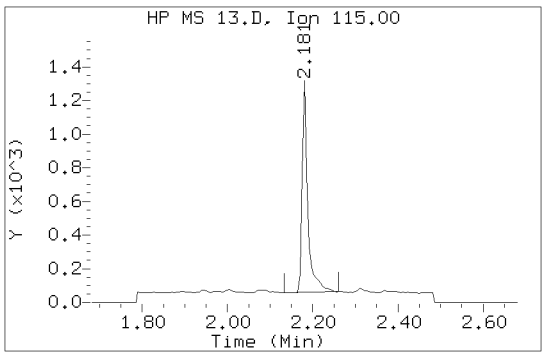
BEFORE

MASS
115
AREA
1201
HEIGHT
1262
19-Jun-2024
16:58
ALSHS
Server



AFTER

MASS
115
AREA
1165
HEIGHT
1258
20-Jun-2024
08:56

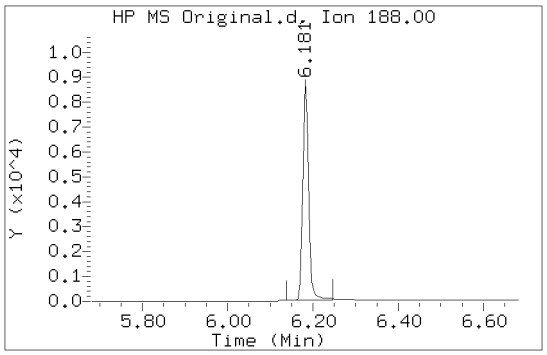


Phenanthrene-d10 (1517-22-2)

Reason Code:

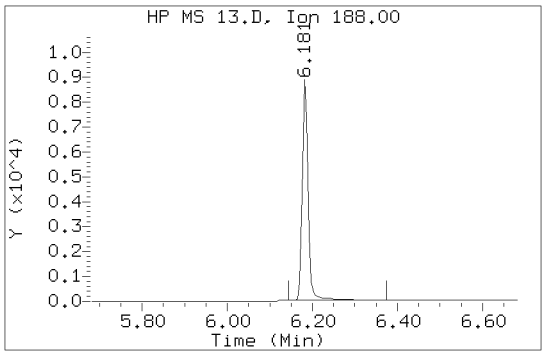
BEFORE

MASS
188
AREA
8282
HEIGHT
8857
19-Jun-2024
16:58
ALSHS
Server



AFTER

MASS
188
AREA
8343
HEIGHT
8855
20-Jun-2024
08:56



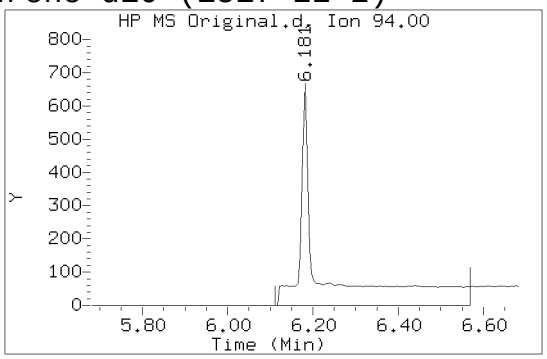
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Inj Date : 19-JUN-2024 16:41
InstruID : SV6.i
LabSampID : HS24060293-04

Phenanthrene-d10 (1517-22-2)

Reason Code:

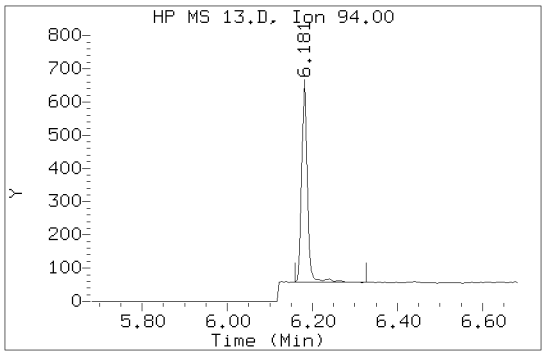
BEFORE

MASS
94
AREA
2095
HEIGHT
667
19-Jun-2024
16:58
ALSHS
Server



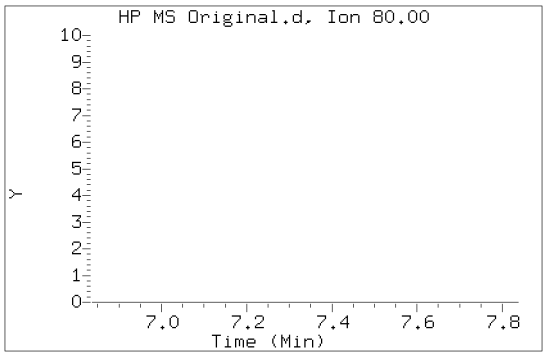
AFTER

MASS
94
AREA
557
HEIGHT
609
20-Jun-2024
08:56



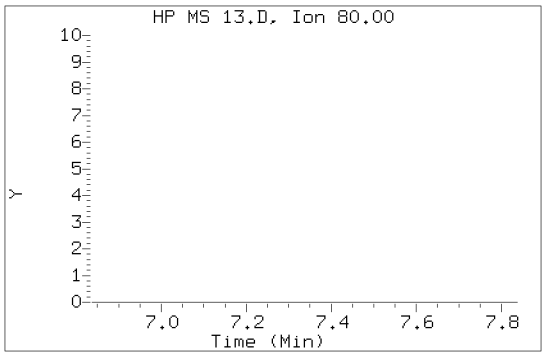
BEFORE

MASS
80
AREA
0
HEIGHT
0
19-Jun-2024
16:58
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
20-Jun-2024
08:56

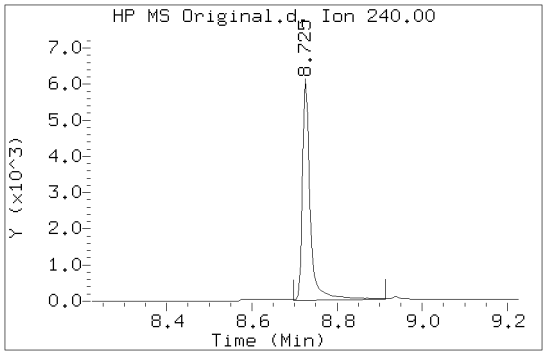


Chrysene-d12 (1719-03-5)

Reason Code:

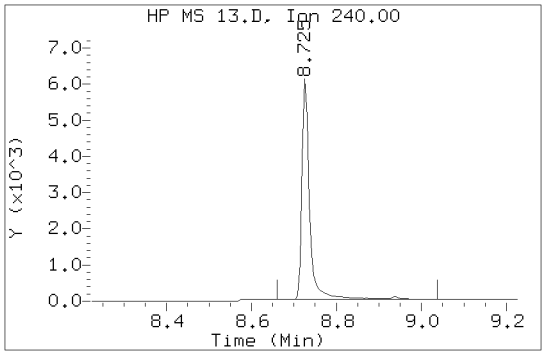
BEFORE

MASS
240
AREA
7679
HEIGHT
6116
19-Jun-2024
16:58
ALSHS
Server



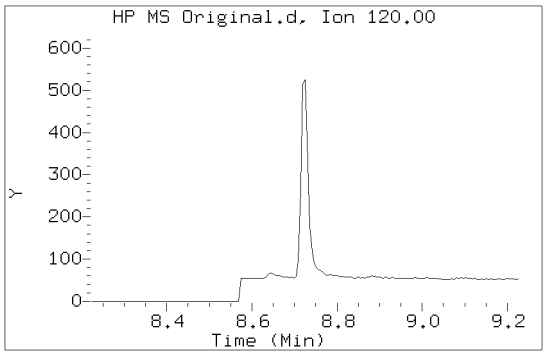
AFTER

MASS
240
AREA
7527
HEIGHT
6089
20-Jun-2024
08:56



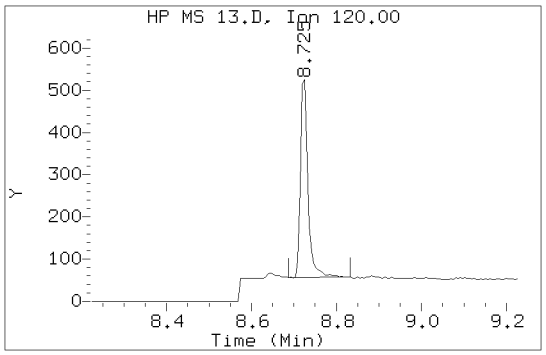
BEFORE

MASS
120
AREA
0
HEIGHT
0
19-Jun-2024
16:58
ALSHS
Server



AFTER

MASS
120
AREA
568
HEIGHT
468
20-Jun-2024
08:56



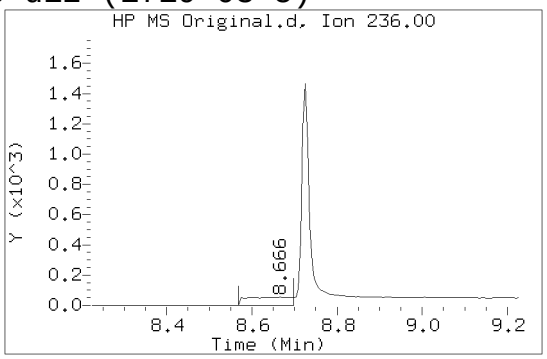
Data File : \\NAHSTWS005\Target\chem\SV6.i\240619.b\13.D
Inj Date : 19-JUN-2024 16:41
InstruID : SV6.i
LabSampID : HS24060293-04

Chrysene-d12 (1719-03-5)

Reason Code:

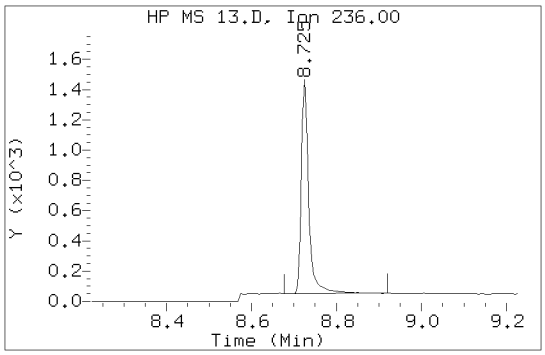
BEFORE

MASS
236
AREA
383
HEIGHT
54
19-Jun-2024
16:58
ALSHS
Server



AFTER

MASS
236
AREA
1713
HEIGHT
1415
20-Jun-2024
08:56

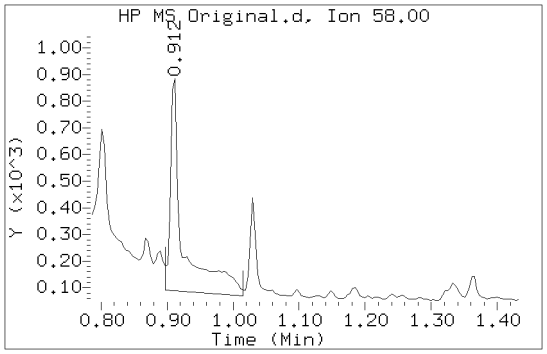


1,4-Dioxane ()

Reason Code:

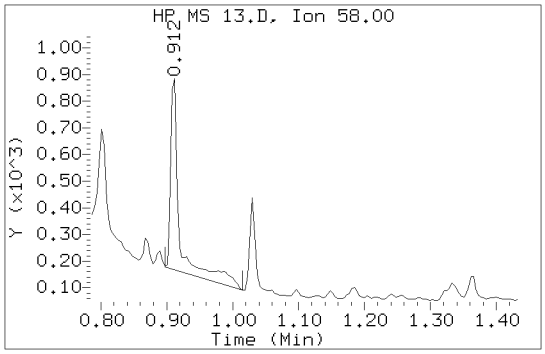
BEFORE

MASS
58
AREA
1040
HEIGHT
794
19-Jun-2024
16:58
ALSHS
Server



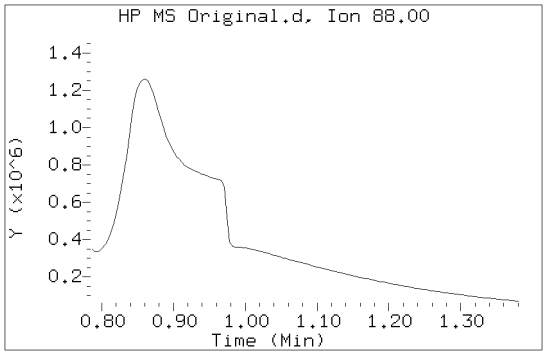
AFTER

MASS
58
AREA
649
HEIGHT
717
20-Jun-2024
08:56



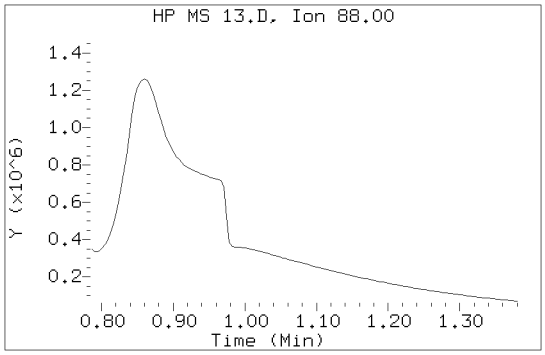
BEFORE

MASS
88
AREA
11526355
HEIGHT
1199296
19-Jun-2024
16:58
ALSHS
Server



AFTER

MASS
88
AREA
7017403
HEIGHT
964582
20-Jun-2024
08:56

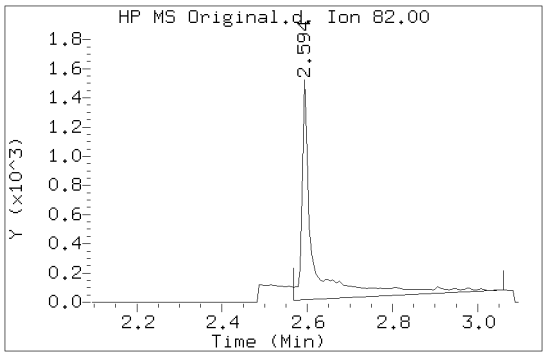


Nitrobenzene-d5 (4165-60-0)

Reason Code:

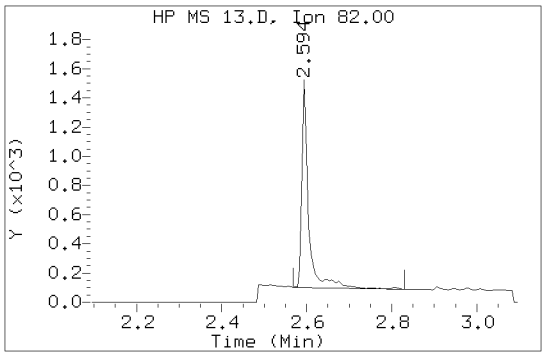
BEFORE

MASS
82
AREA
2909
HEIGHT
1507
19-Jun-2024
16:58
ALSHS
Server



AFTER

MASS
82
AREA
1575
HEIGHT
1421
20-Jun-2024
08:56

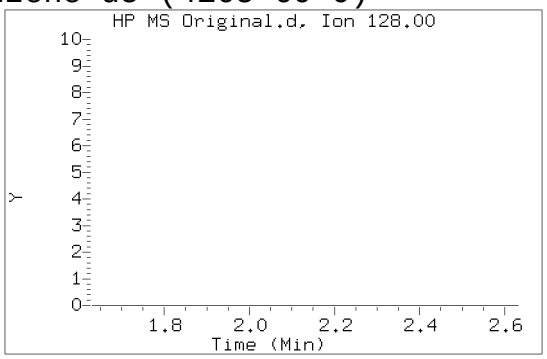


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Inj Date : 19-JUN-2024 16:41
InstruID : SV6.i
LabSampID : HS24060293-04

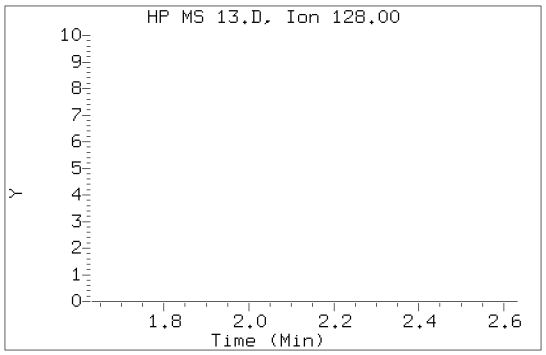
Nitrobenzene-d5 (4165-60-0)

Reason Code:

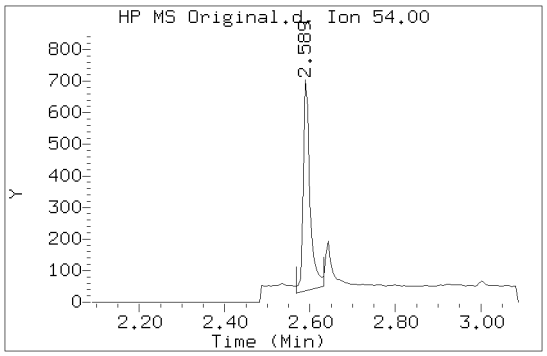
BEFORE
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128
AREA
0
HEIGHT
0
19-Jun-2024
16:58
ALSHS
Server



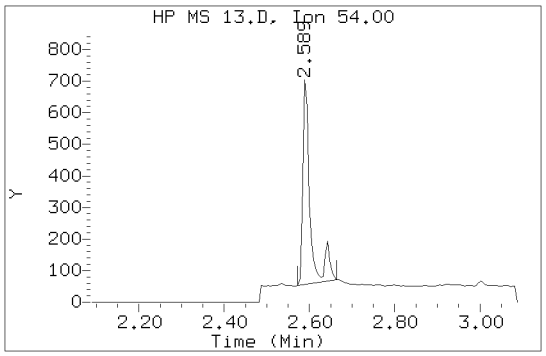
AFTER
MASS
128
AREA
0
HEIGHT
0
20-Jun-2024
08:56



BEFORE
MASS
54
AREA
724
HEIGHT
668
19-Jun-2024
16:58
ALSHS
Server



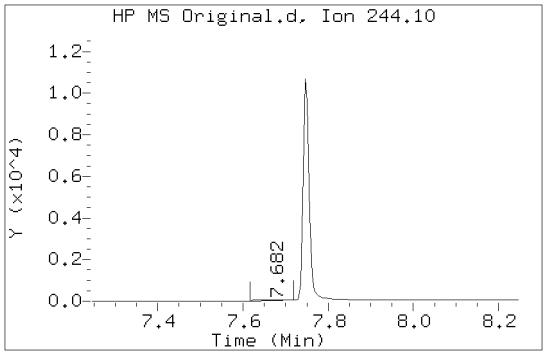
AFTER
MASS
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AREA
747
HEIGHT
648
20-Jun-2024
08:56



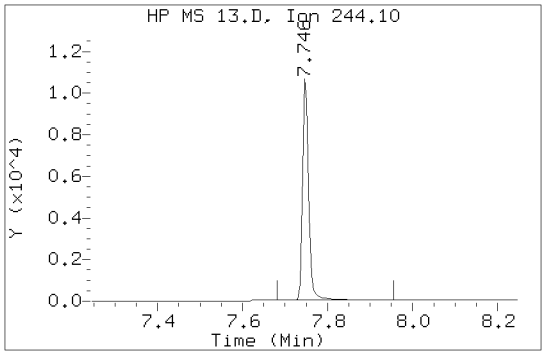
4-Terphenyl-d14 (1718-51-0)

Reason Code:

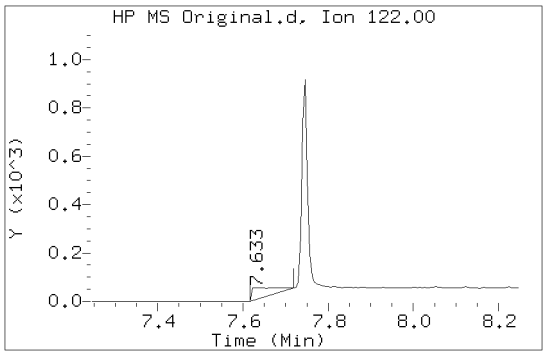
BEFORE
MASS
244.1
AREA
140
HEIGHT
18
19-Jun-2024
16:58
ALSHS
Server



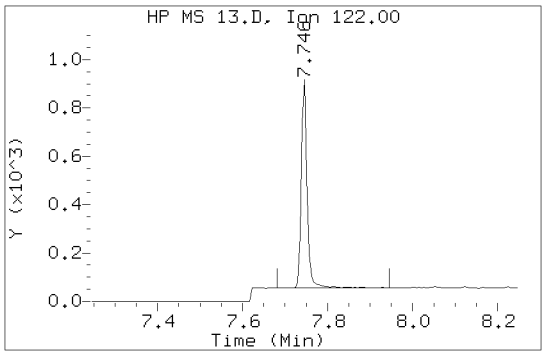
AFTER
MASS
244.1
AREA
10609
HEIGHT
10631
20-Jun-2024
08:56



BEFORE
MASS
122
AREA
158
HEIGHT
48
19-Jun-2024
16:58
ALSHS
Server



AFTER
MASS
122
AREA
834
HEIGHT
861
20-Jun-2024
08:56



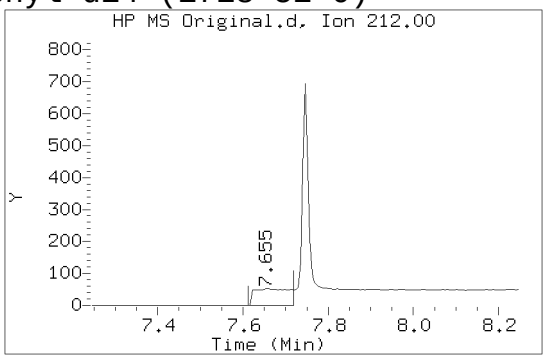
Data File : \\NAHSTWS005\Target\chem\SV6.i\240619.b\13.D
Inj Date : 19-JUN-2024 16:41
InstruID : SV6.i
LabSampID : HS24060293-04

4-Terphenyl-d14 (1718-51-0)

Reason Code:

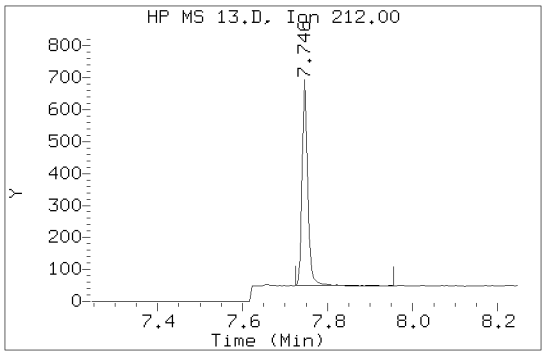
BEFORE

MASS
212
AREA
304
HEIGHT
52
19-Jun-2024
16:58
ALSHS
Server



AFTER

MASS
212
AREA
601
HEIGHT
644
20-Jun-2024
08:56

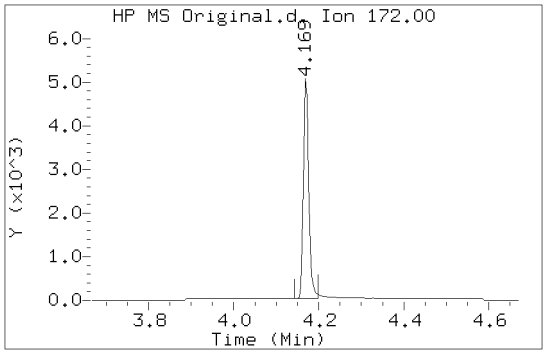


2-Fluorobiphenyl (321-60-8)

Reason Code:

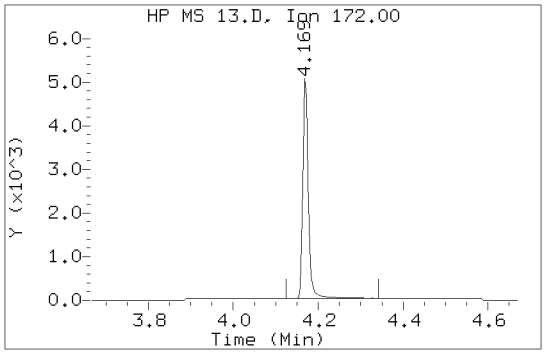
BEFORE

MASS
172
AREA
4315
HEIGHT
5034
19-Jun-2024
16:58
ALSHS
Server



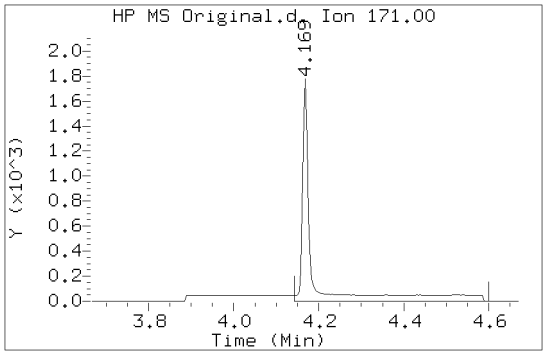
AFTER

MASS
172
AREA
4434
HEIGHT
5033
20-Jun-2024
08:56



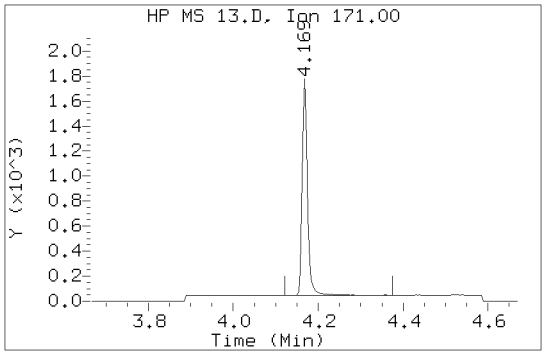
BEFORE

MASS
171
AREA
2758
HEIGHT
1777
19-Jun-2024
16:58
ALSHS
Server



AFTER

MASS
171
AREA
1492
HEIGHT
1731
20-Jun-2024
08:56



Data File: \\NAHSTWS005\Target\chem\SV6.i\240619.b\14.D Page 1
Report Date: 20-Jun-2024 08:57

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240619.b\14.D
Lab Smp Id: HS24060293-05
Inj Date : 19-JUN-2024 16:58
Operator : LG Inst ID: SV6.i
Smp Info : HS24060293-05
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240619.b\DXSIM.m
Meth Date : 19-Jun-2024 13:45 marco.guti Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTWS005

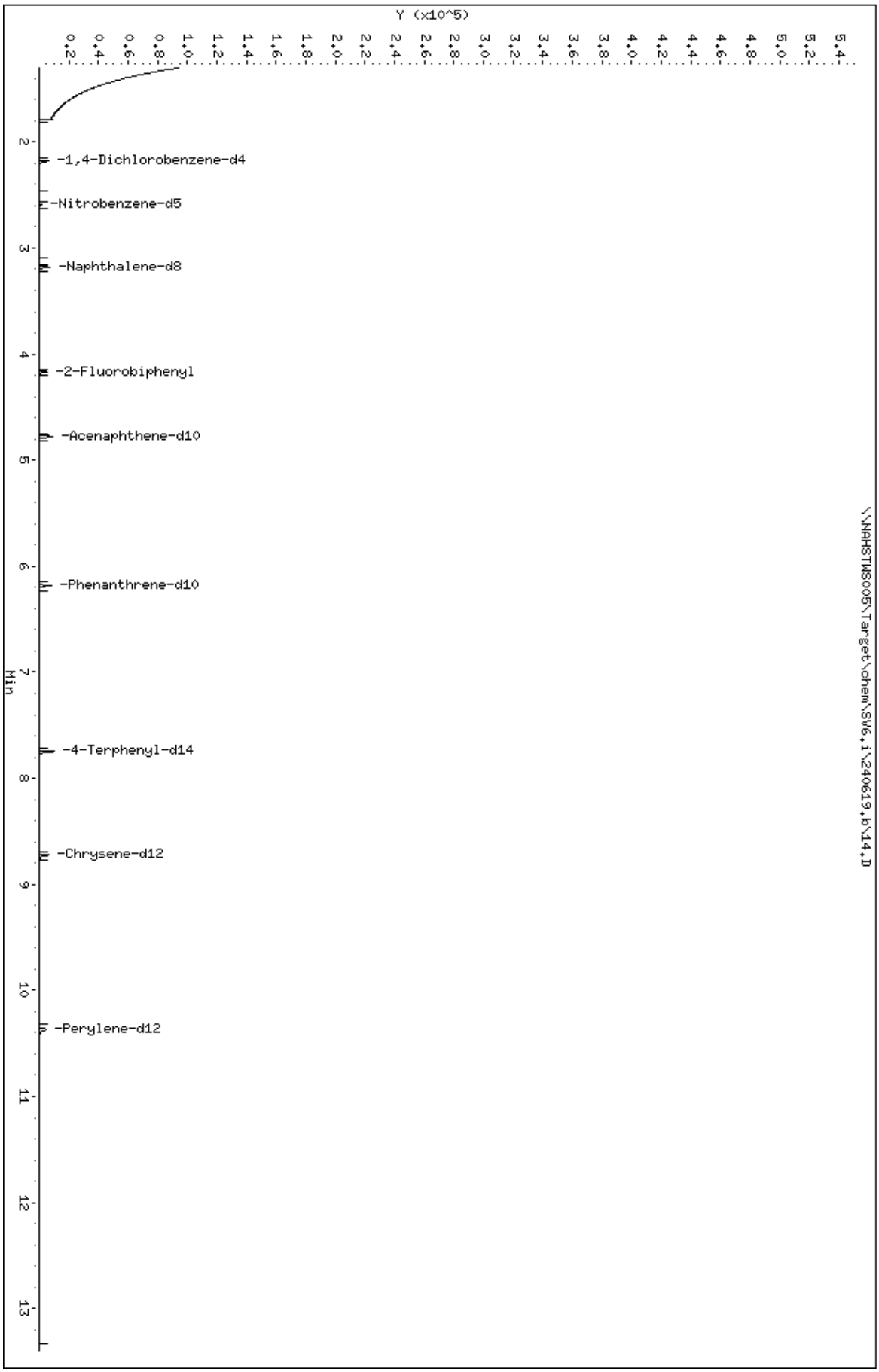
Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	2.181	2.186	(1.000)	2006	0.10000	(aM)
* 45 Naphthalene-d8	136	3.176	3.176	(1.000)	6200	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.594	2.594	(0.817)	1348	0.07242	0.07242(M)
* 86 Acenaphthene-d10	164	4.776	4.776	(1.000)	3642	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.168	4.168	(0.873)	3834	0.06887	0.06886(M)
* 126 Phenanthrene-d10	188	6.181	6.181	(1.000)	6910	0.10000	(M)
* 182 Chrysene-d12	240	8.725	8.725	(1.000)	5903	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.746	7.746	(0.888)	9044	0.07521	0.07521(M)
* 198 Perylene-d12	264	10.371	10.365	(1.000)	6092	0.10000	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

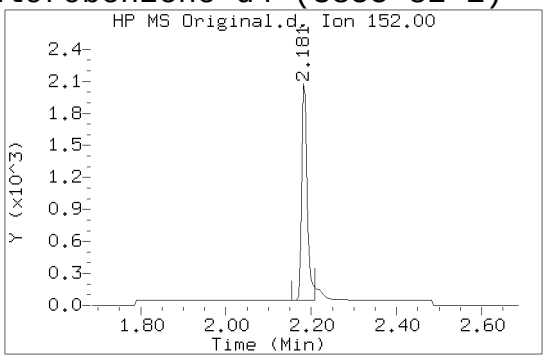

Data File: \\NAHSTWS005\Target\chem\SV6.i\240619.b\14.D
Date : 19-JUN-2024 16:58
Client ID:
Sample Info: HS24060293-05
Purge Volume: 1000.0
Column phase: RTX-5SIL MS
Instrument: SV6.i
Operator: LG
Column diameter: 0.28
\\NAHSTWS005\Target\chem\SV6.i\240619.b\14.D
Y (x10^5)
Min
-1,4-Dichlorobenzene-d4
-Nitrobenzene-d5
-Naphthalene-d8
-2-Fluorobiphenyl
-Acenaphthene-d10
-Phenanthrene-d10
-4-Terphenyl-d14
-Chrysene-d12
-Perylene-d12

Data File : \\NAHSTWS005\Target\chem\SV6.i\240619.b\14.D
Inj Date : 19-JUN-2024 16:58
InstruID : SV6.i
LabSampID : HS24060293-05

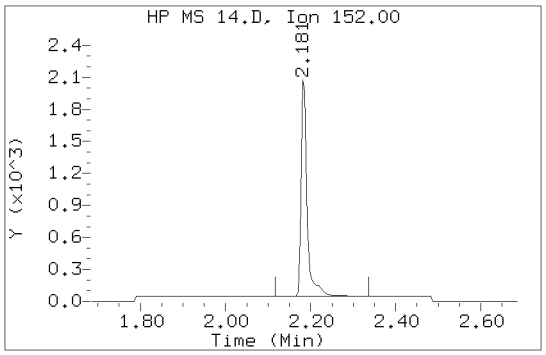
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

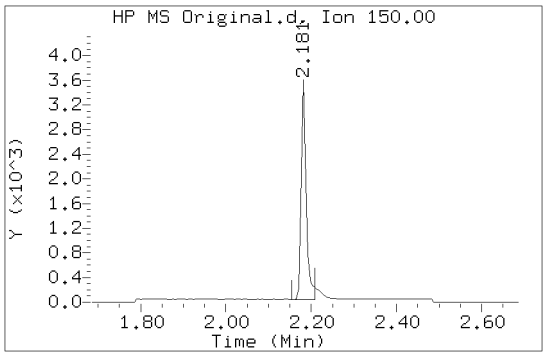
BEFORE
MASS
152
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1858
HEIGHT
2033
19-Jun-2024
17:13
ALSHS
Server



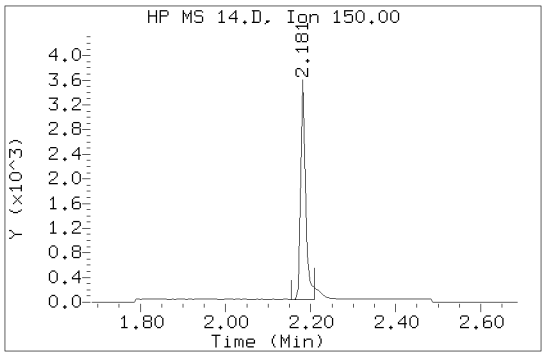
AFTER
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152
AREA
2006
HEIGHT
2032
20-Jun-2024
08:57



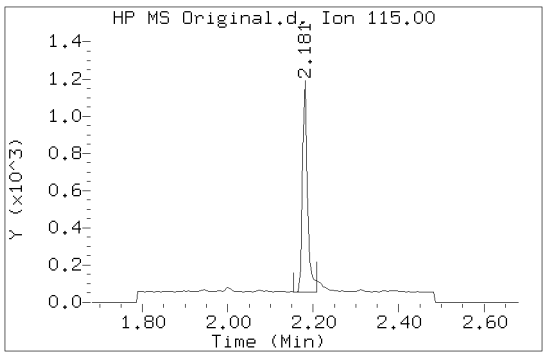
BEFORE
MASS
150
AREA
2917
HEIGHT
3559
19-Jun-2024
17:13
ALSHS
Server



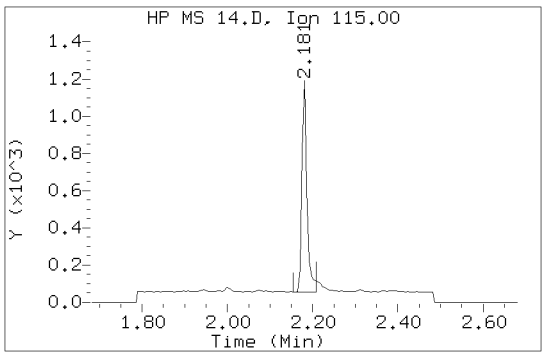
AFTER
MASS
150
AREA
2917
HEIGHT
3559
20-Jun-2024
08:57



BEFORE
MASS
115
AREA
950
HEIGHT
1136
19-Jun-2024
17:13
ALSHS
Server



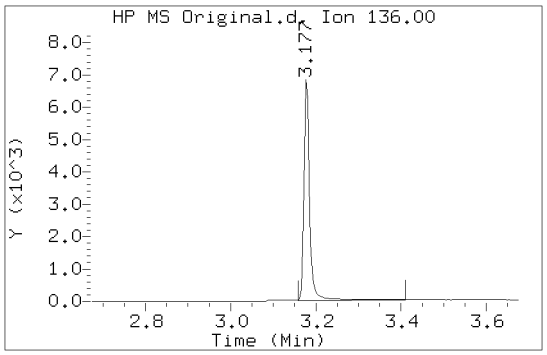
AFTER
MASS
115
AREA
950
HEIGHT
1136
20-Jun-2024
08:57



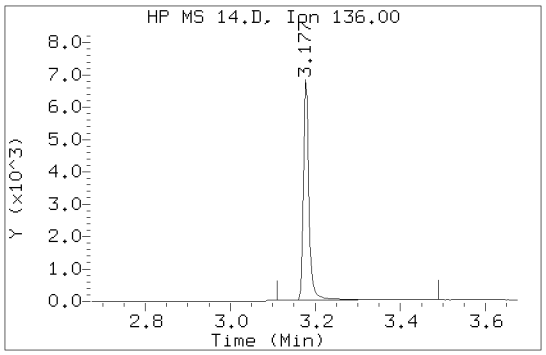
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
6463
HEIGHT
6838
19-Jun-2024
17:13
ALSHS
Server



AFTER
MASS
136
AREA
6200
HEIGHT
6804
20-Jun-2024
08:57

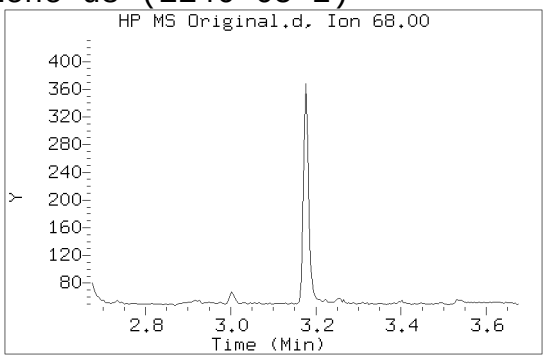


Data File : \\NAHSTWS005\Target\chem\SV6.i\240619.b\14.D
Inj Date : 19-JUN-2024 16:58
InstruID : SV6.i
LabSampID : HS24060293-05

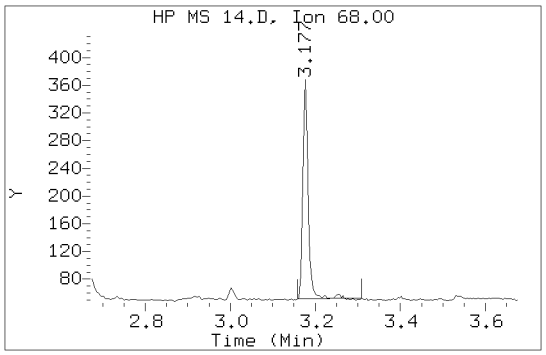
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
68
AREA
0
HEIGHT
0
19-Jun-2024
17:13
ALSHS
Server



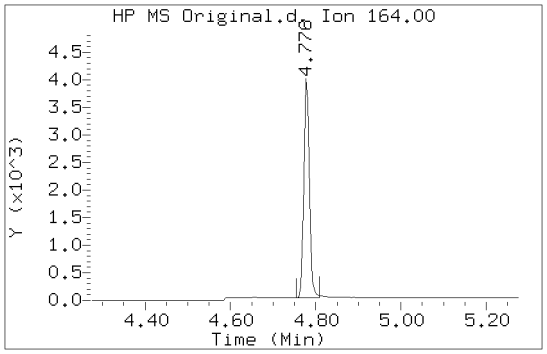
AFTER
MASS
68
AREA
270
HEIGHT
315
20-Jun-2024
08:57



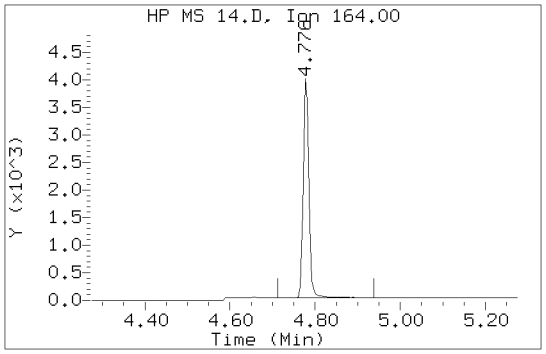
Acenaphthene-d10 (15067-26-2)

Reason Code:

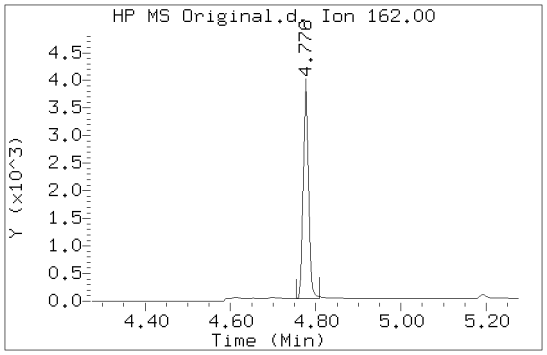
BEFORE
MASS
164
AREA
3591
HEIGHT
3970
19-Jun-2024
17:13
ALSHS
Server



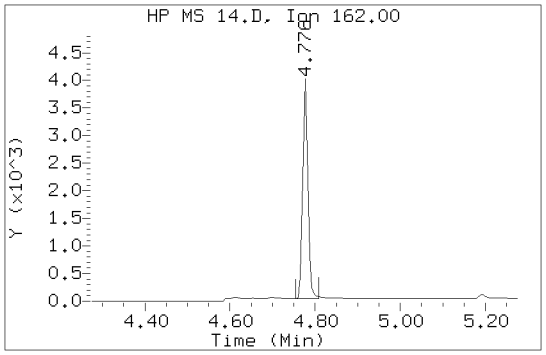
AFTER
MASS
164
AREA
3642
HEIGHT
3970
20-Jun-2024
08:57



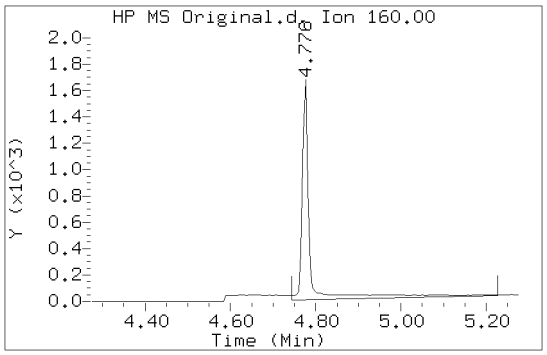
BEFORE
MASS
162
AREA
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HEIGHT
3979
19-Jun-2024
17:13
ALSHS
Server



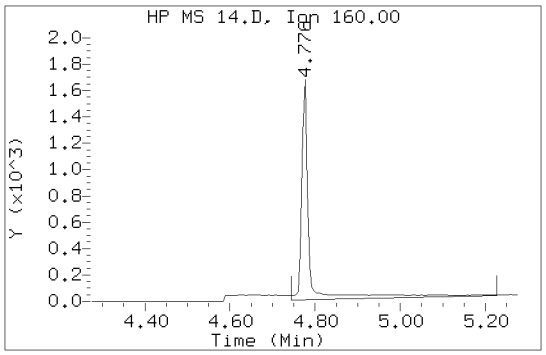
AFTER
MASS
162
AREA
3333
HEIGHT
3979
20-Jun-2024
08:57



BEFORE
MASS
160
AREA
1964
HEIGHT
1668
19-Jun-2024
17:13
ALSHS
Server



AFTER
MASS
160
AREA
1964
HEIGHT
1668
20-Jun-2024
08:57



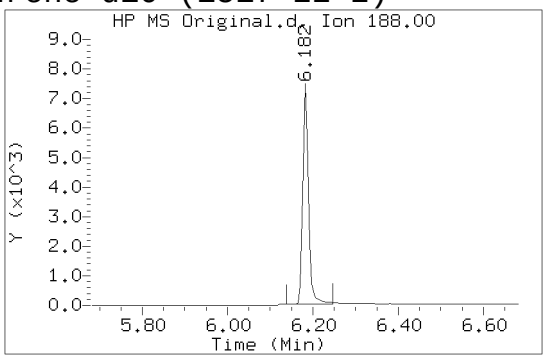
Data File : \\NAHSTWS005\Target\chem\SV6.i\240619.b\14.D
Inj Date : 19-JUN-2024 16:58
InstruID : SV6.i
LabSampID : HS24060293-05

Phenanthrene-d10 (1517-22-2)

Reason Code:

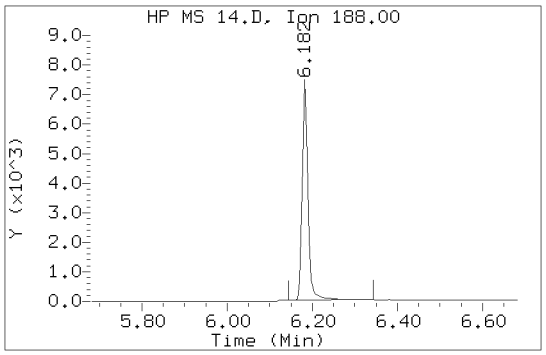
BEFORE

MASS
188
AREA
6855
HEIGHT
7456
19-Jun-2024
17:13
ALSHS
Server



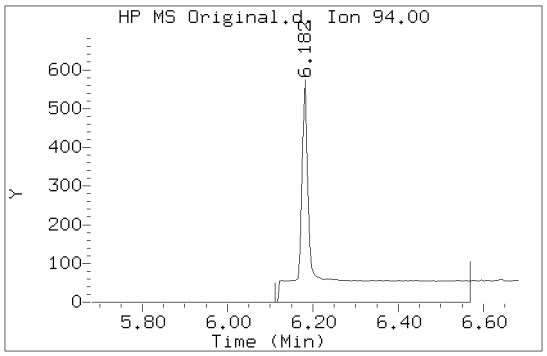
AFTER

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AREA
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HEIGHT
7455
20-Jun-2024
08:57



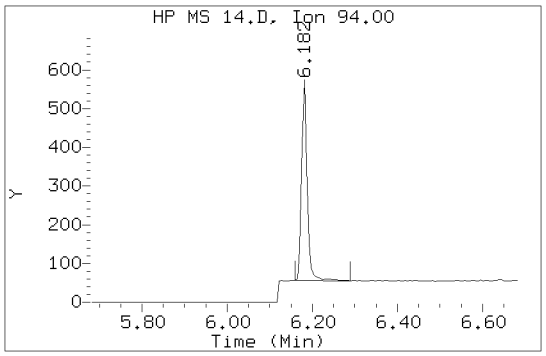
BEFORE

MASS
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AREA
1966
HEIGHT
574
19-Jun-2024
17:13
ALSHS
Server



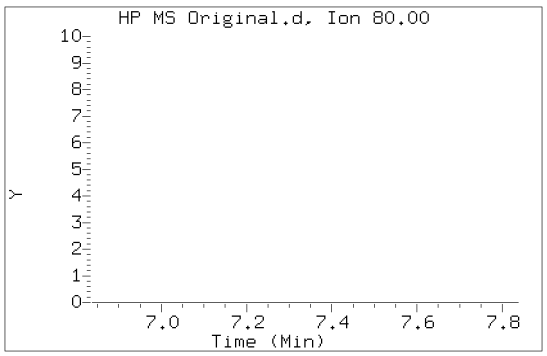
AFTER

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AREA
467
HEIGHT
518
20-Jun-2024
08:57



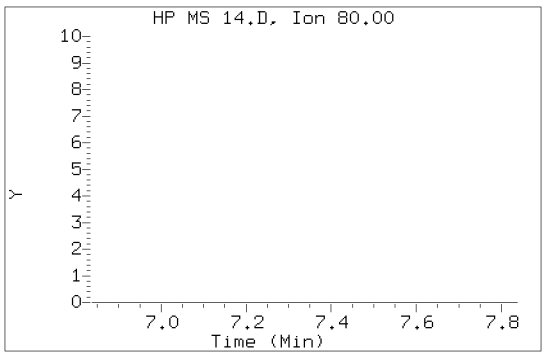
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80
AREA
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HEIGHT
0
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17:13
ALSHS
Server



AFTER

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AREA
0
HEIGHT
0
20-Jun-2024
08:57

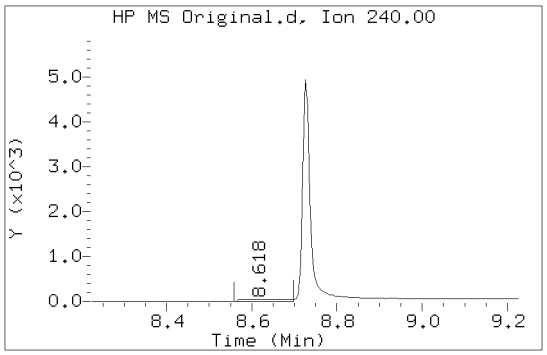


Chrysene-d12 (1719-03-5)

Reason Code:

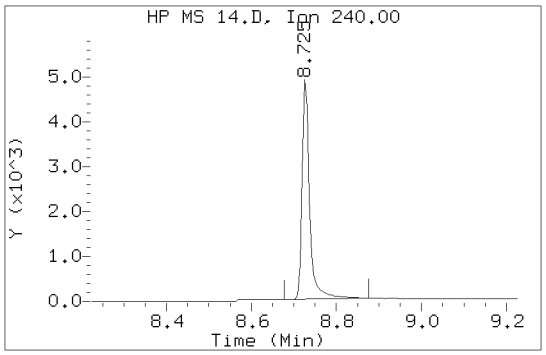
BEFORE

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AREA
388
HEIGHT
49
19-Jun-2024
17:13
ALSHS
Server



AFTER

MASS
240
AREA
5903
HEIGHT
4888
20-Jun-2024
08:57



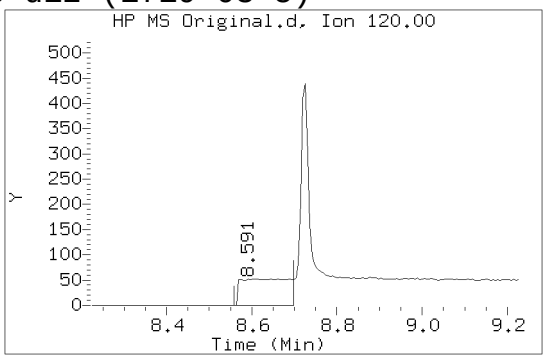
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Inj Date : 19-JUN-2024 16:58
InstruID : SV6.i
LabSampID : HS24060293-05

Chrysene-d12 (1719-03-5)

Reason Code:

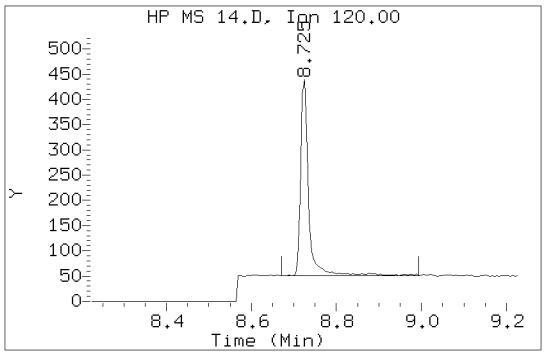
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HEIGHT
52
19-Jun-2024
17:13
ALSHS
Server



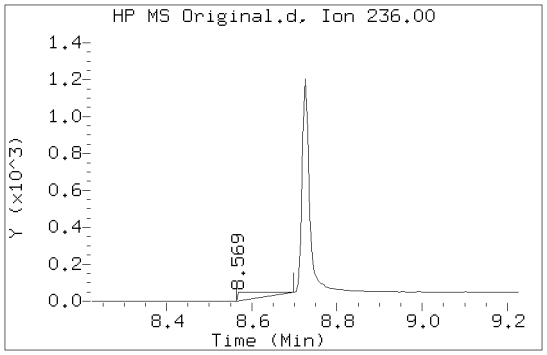
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AREA
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HEIGHT
388
20-Jun-2024
08:57



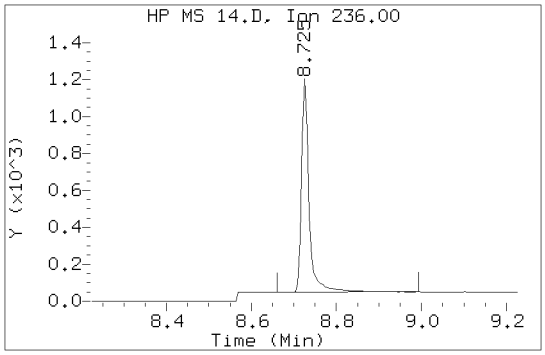
BEFORE

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236
AREA
183
HEIGHT
47
19-Jun-2024
17:13
ALSHS
Server



AFTER

MASS
236
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HEIGHT
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20-Jun-2024
08:57

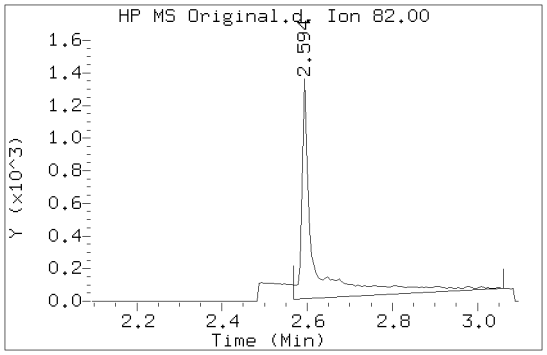


Nitrobenzene-d5 (4165-60-0)

Reason Code:

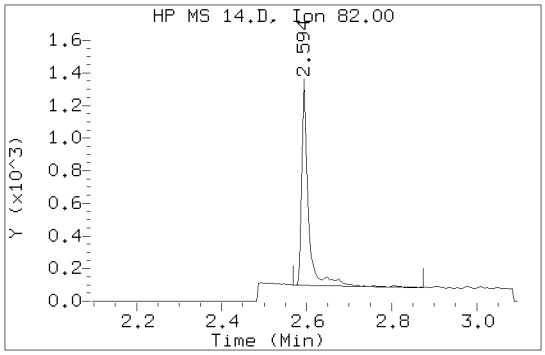
BEFORE

MASS
82
AREA
2620
HEIGHT
1348
19-Jun-2024
17:13
ALSHS
Server



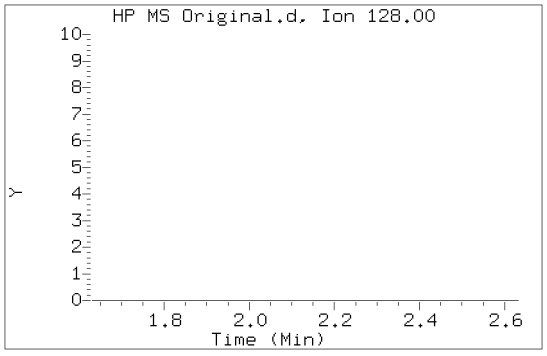
AFTER

MASS
82
AREA
1348
HEIGHT
1265
20-Jun-2024
08:57



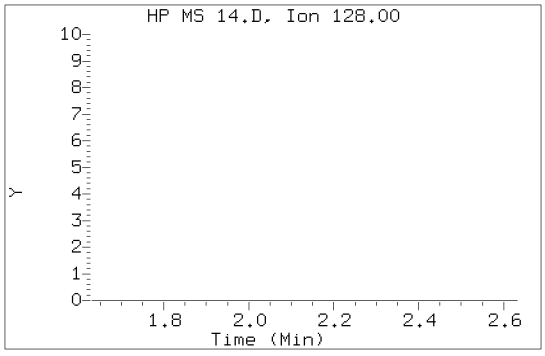
BEFORE

MASS
128
AREA
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HEIGHT
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19-Jun-2024
17:13
ALSHS
Server



AFTER

MASS
128
AREA
0
HEIGHT
0
20-Jun-2024
08:57



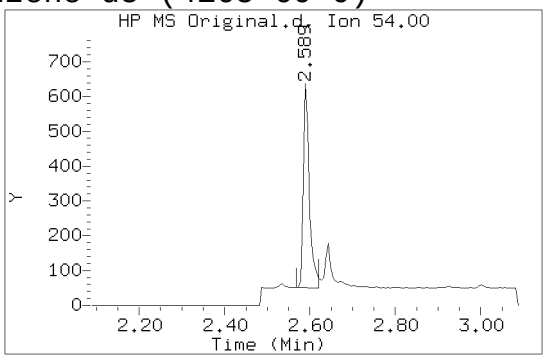
Data File : \\NAHSTWS005\Target\chem\SV6.i\240619.b\14.D
Inj Date : 19-JUN-2024 16:58
InstruID : SV6.i
LabSampID : HS24060293-05

Nitrobenzene-d5 (4165-60-0)

Reason Code:

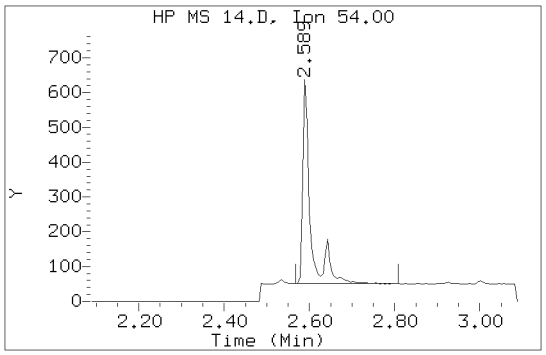
BEFORE

MASS
54
AREA
561
HEIGHT
586
19-Jun-2024
17:13
ALSHS
Server



AFTER

MASS
54
AREA
707
HEIGHT
585
20-Jun-2024
08:57

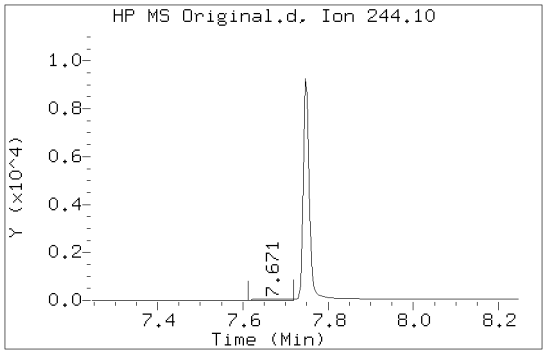


4-Terphenyl-d14 (1718-51-0)

Reason Code:

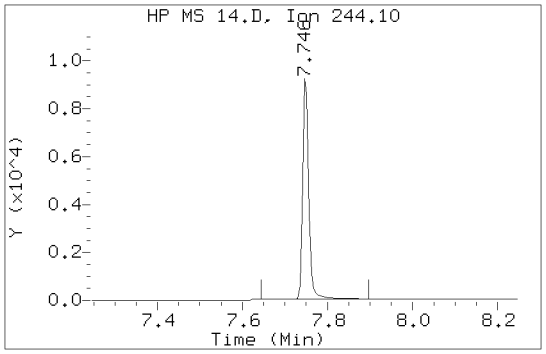
BEFORE

MASS
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AREA
297
HEIGHT
51
19-Jun-2024
17:13
ALSHS
Server



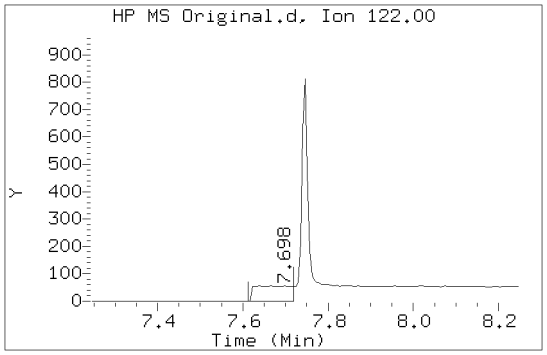
AFTER

MASS
244.1
AREA
9044
HEIGHT
9202
20-Jun-2024
08:57



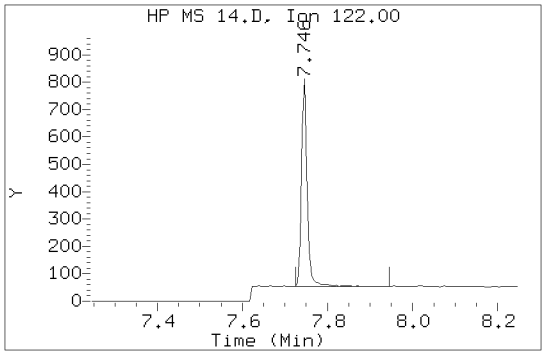
BEFORE

MASS
122
AREA
335
HEIGHT
57
19-Jun-2024
17:13
ALSHS
Server



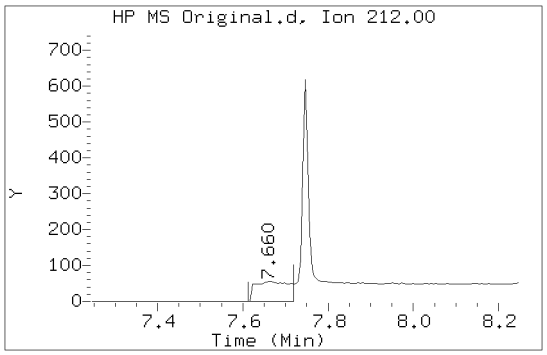
AFTER

MASS
122
AREA
707
HEIGHT
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20-Jun-2024
08:57



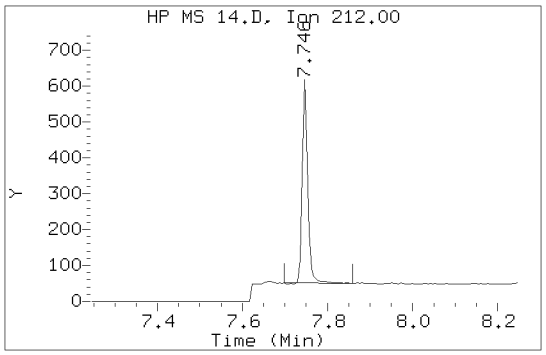
BEFORE

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212
AREA
310
HEIGHT
55
19-Jun-2024
17:13
ALSHS
Server



AFTER

MASS
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AREA
510
HEIGHT
567
20-Jun-2024
08:57

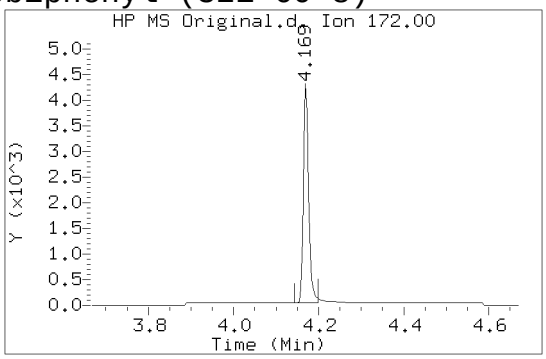


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Inj Date : 19-JUN-2024 16:58
InstruID : SV6.i
LabSampID : HS24060293-05

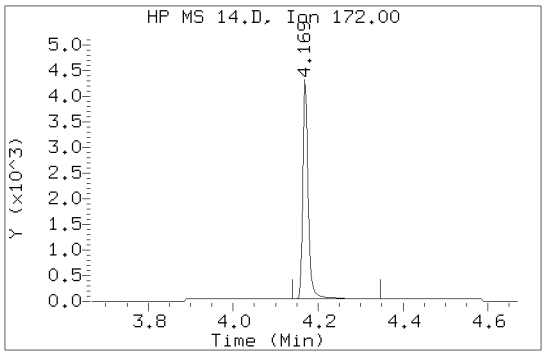
2-Fluorobiphenyl (321-60-8)

Reason Code:

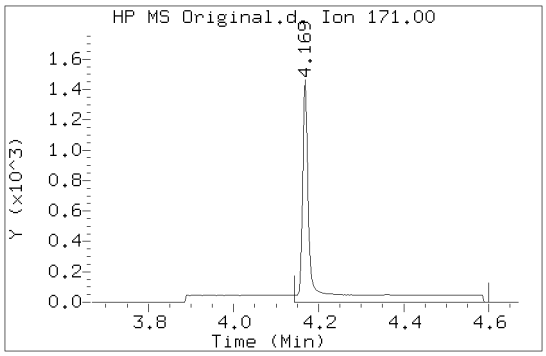
BEFORE
MASS
172
AREA
3714
HEIGHT
4273
19-Jun-2024
17:13
ALSHS
Server



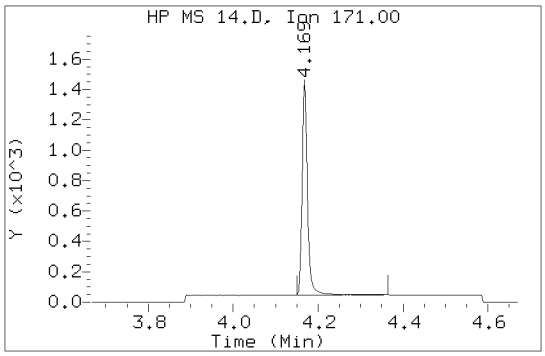
AFTER
MASS
172
AREA
3834
HEIGHT
4272
20-Jun-2024
08:57



BEFORE
MASS
171
AREA
2519
HEIGHT
1463
19-Jun-2024
17:13
ALSHS
Server



AFTER
MASS
171
AREA
1241
HEIGHT
1414
20-Jun-2024
08:57



Data File: \\NAHSTWS005\Target\chem\SV6.i\240619.b\15.D Page 1
Report Date: 15-Jul-2024 09:40

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240619.b\15.D
Lab Smp Id: HS24060293-06
Inj Date : 19-JUN-2024 17:16
Operator : LG Inst ID: SV6.i
Smp Info : HS24060293-06
Misc Info : ;;0;1;
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240619.b\DXSIM.m
Meth Date : 15-Jul-2024 09:40 SV6.i Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7014

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	2.181	2.186	(1.000)	1949	0.10000	(aM)
* 45 Naphthalene-d8	136	3.176	3.176	(1.000)	5997	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.594	2.594	(0.817)	1420	0.07887	0.07887(M)
* 86 Acenaphthene-d10	164	4.776	4.776	(1.000)	3548	0.10000	
$ 69 2-Fluorobiphenyl	172	4.168	4.168	(0.873)	3673	0.06772	0.06772
* 126 Phenanthrene-d10	188	6.181	6.181	(1.000)	6817	0.10000	
* 182 Chrysene-d12	240	8.725	8.725	(1.000)	5951	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.751	7.746	(0.888)	9441	0.07788	0.07788(M)
* 198 Perylene-d12	264	10.371	10.365	(1.000)	6078	0.10000	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240619.b\15.D

Date : 19-JUN-2024 17:16

Client ID:

Instrument: SV6.i

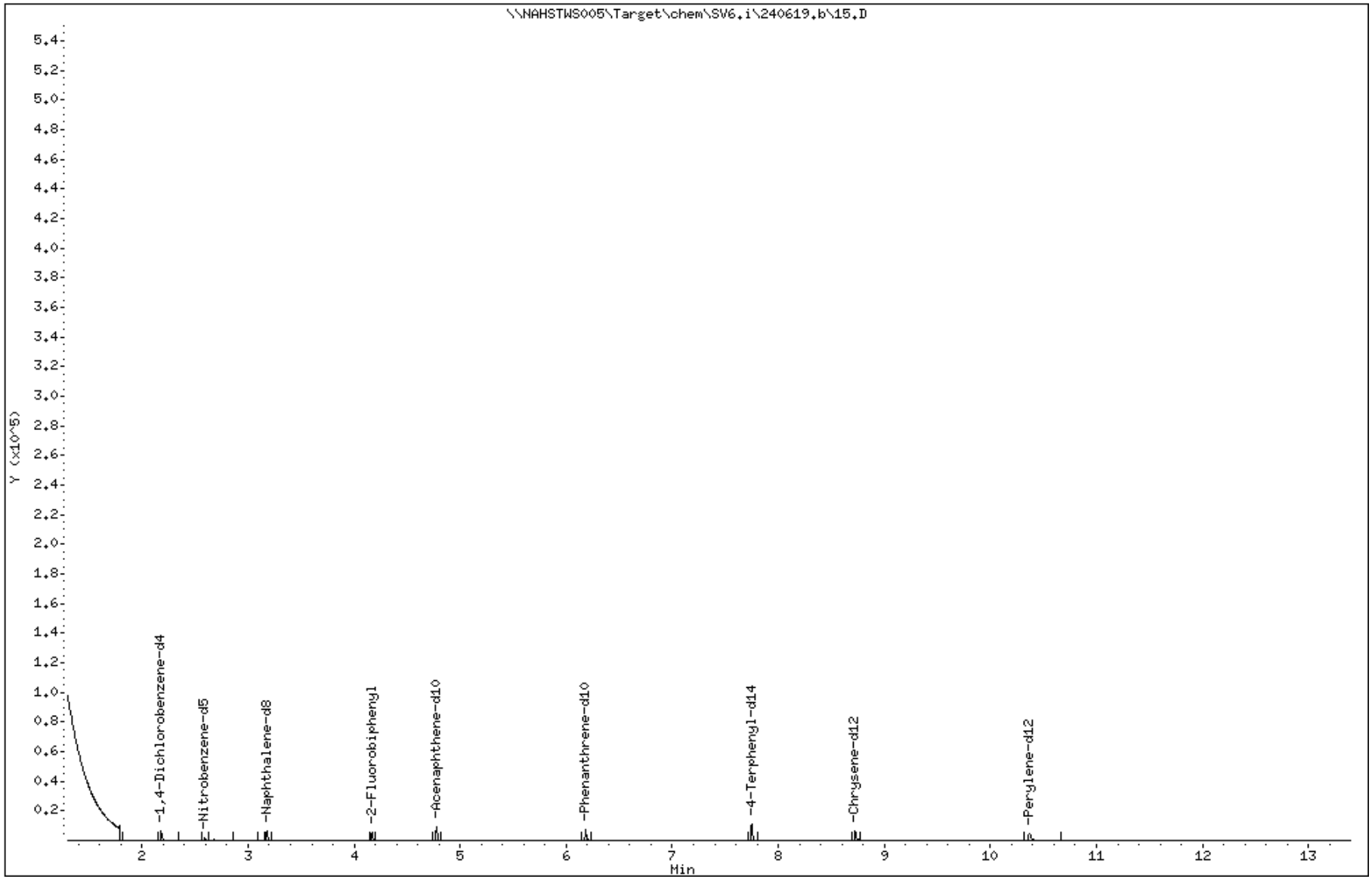
Sample Info: HS24060293-06

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

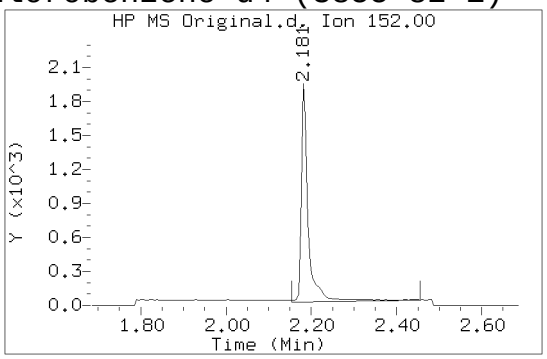


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Inj Date : 19-JUN-2024 17:16
InstruID : SV6.i
LabSampID : HS24060293-06

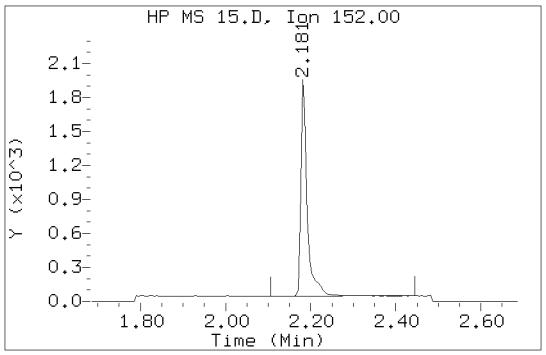
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

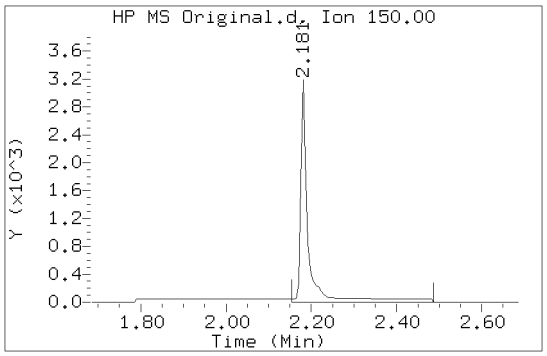
BEFORE
MASS
152
AREA
2174
HEIGHT
1929
19-Jun-2024
17:32
ALSHS
Server



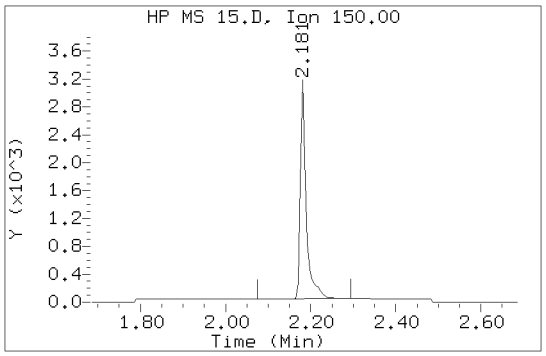
AFTER
MASS
152
AREA
1949
HEIGHT
1909
15-Jul-2024
09:39
ALSHS



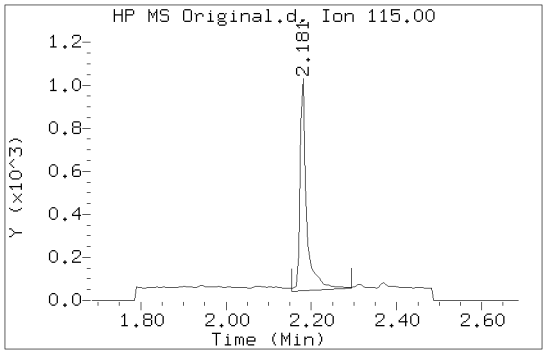
BEFORE
MASS
150
AREA
4019
HEIGHT
3187
19-Jun-2024
17:32
ALSHS
Server



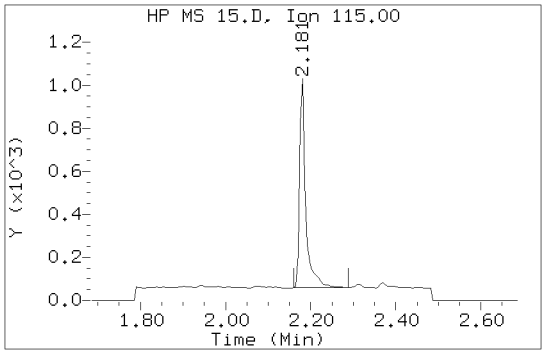
AFTER
MASS
150
AREA
3012
HEIGHT
3137
15-Jul-2024
09:39
ALSHS



BEFORE
MASS
115
AREA
1067
HEIGHT
985
19-Jun-2024
17:32
ALSHS
Server



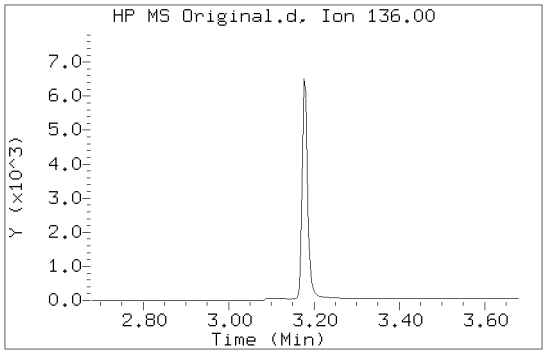
AFTER
MASS
115
AREA
977
HEIGHT
971
15-Jul-2024
09:39
ALSHS



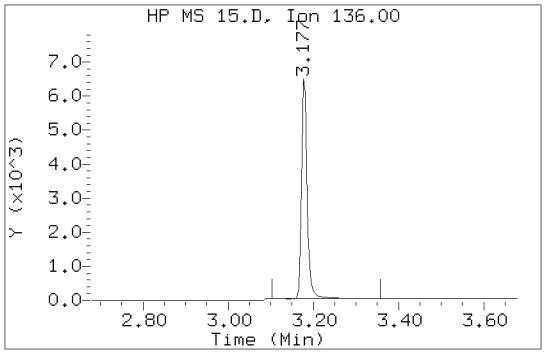
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
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HEIGHT
0
19-Jun-2024
17:32
ALSHS
Server



AFTER
MASS
136
AREA
5997
HEIGHT
6462
15-Jul-2024
09:39
ALSHS



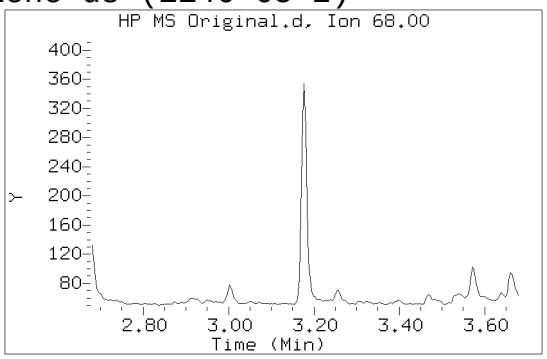
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Inj Date : 19-JUN-2024 17:16
InstruID : SV6.i
LabSampID : HS24060293-06

Naphthalene-d8 (1146-65-2)

Reason Code:

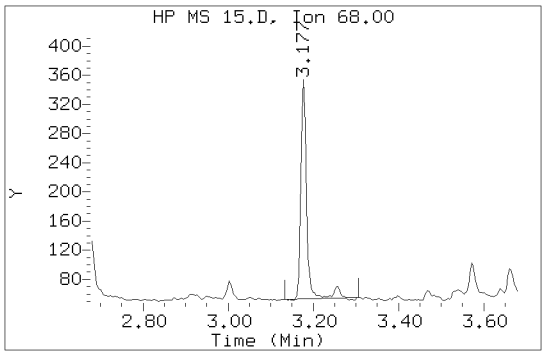
BEFORE

MASS
68
AREA
0
HEIGHT
0
19-Jun-2024
17:32
ALSHS
Server



AFTER

MASS
68
AREA
284
HEIGHT
300
15-Jul-2024
09:39
ALSHS

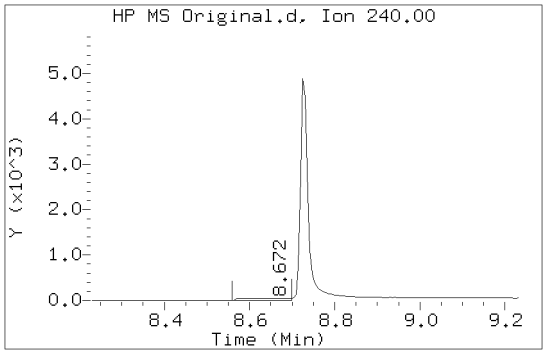


Chrysene-d12 (1719-03-5)

Reason Code:

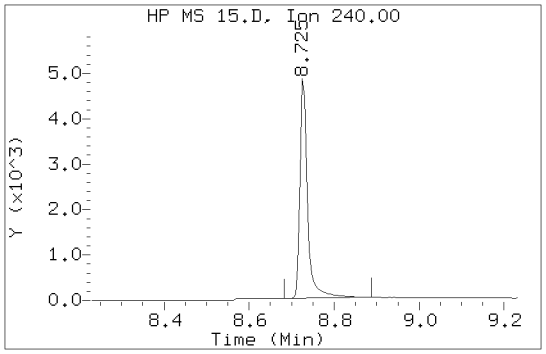
BEFORE

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AREA
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HEIGHT
48
19-Jun-2024
17:32
ALSHS
Server



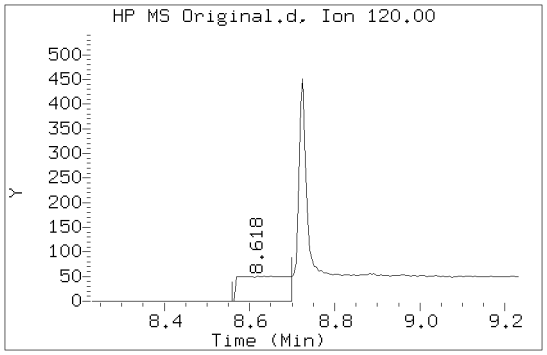
AFTER

MASS
240
AREA
5951
HEIGHT
4832
15-Jul-2024
09:39
ALSHS



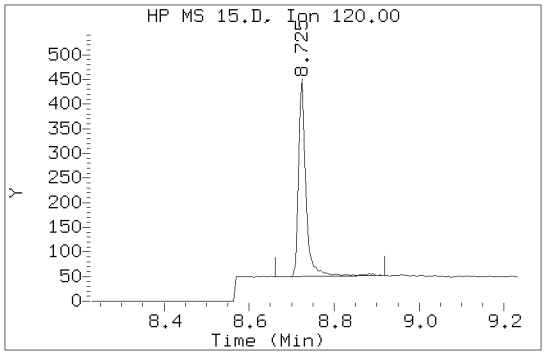
BEFORE

MASS
120
AREA
401
HEIGHT
51
19-Jun-2024
17:32
ALSHS
Server



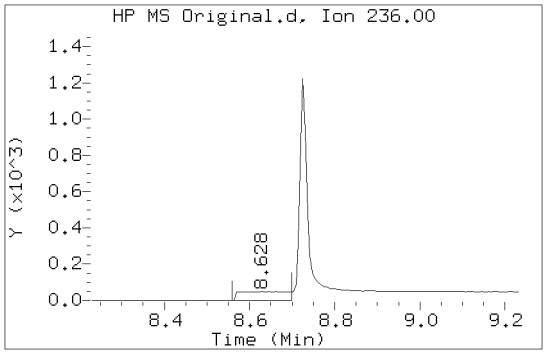
AFTER

MASS
120
AREA
486
HEIGHT
401
15-Jul-2024
09:39
ALSHS



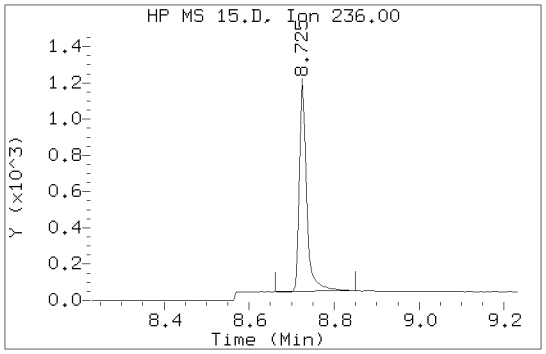
BEFORE

MASS
236
AREA
378
HEIGHT
48
19-Jun-2024
17:32
ALSHS
Server



AFTER

MASS
236
AREA
1366
HEIGHT
1172
15-Jul-2024
09:39
ALSHS



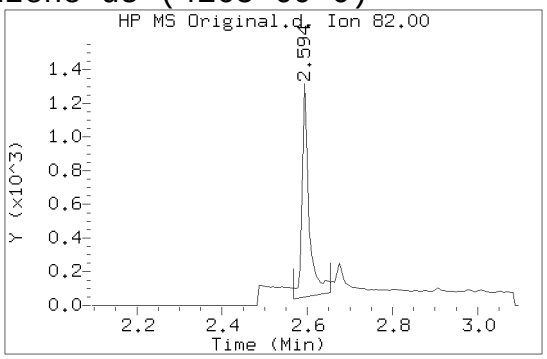
Data File : \\NAHSTWS005\Target\chem\SV6.i\240619.b\15.D
Inj Date : 19-JUN-2024 17:16
InstruID : SV6.i
LabSampID : HS24060293-06

Nitrobenzene-d5 (4165-60-0)

Reason Code:

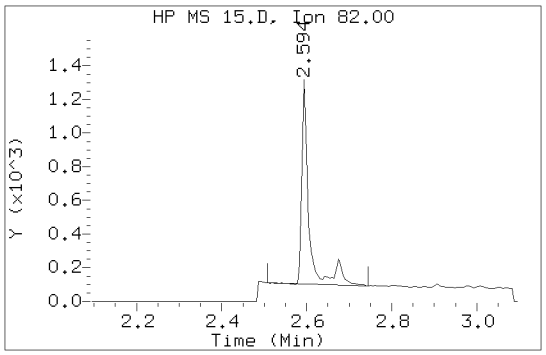
BEFORE

MASS
82
AREA
1472
HEIGHT
1266
19-Jun-2024
17:32
ALSHS
Server



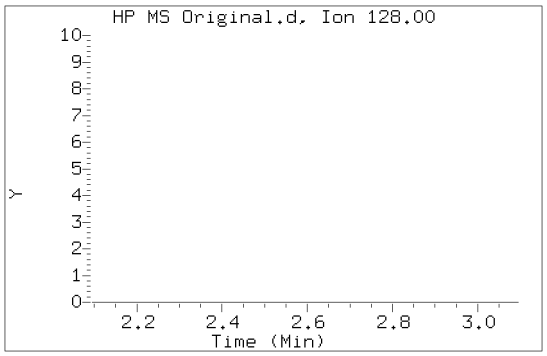
AFTER

MASS
82
AREA
1420
HEIGHT
1213
15-Jul-2024
09:39
ALSHS



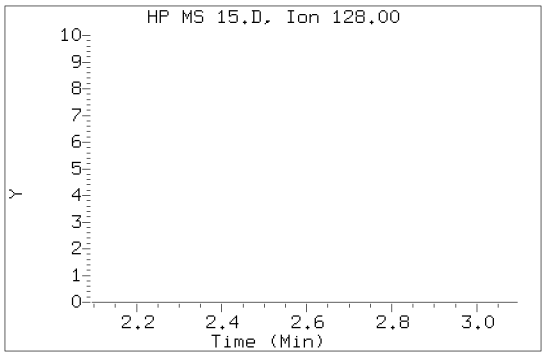
BEFORE

MASS
128
AREA
0
HEIGHT
0
19-Jun-2024
17:32
ALSHS
Server



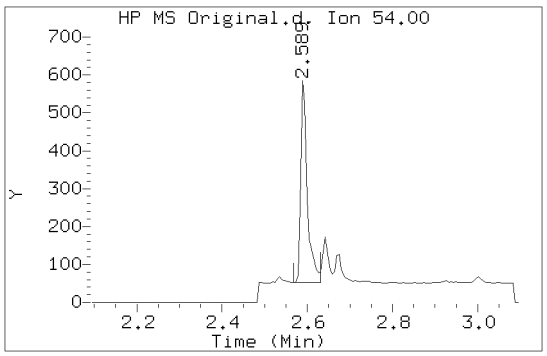
AFTER

MASS
128
AREA
0
HEIGHT
0
15-Jul-2024
09:39
ALSHS



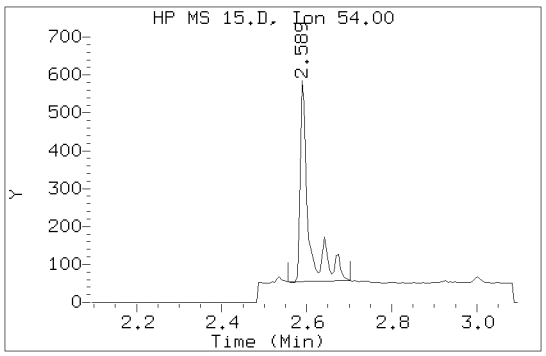
BEFORE

MASS
54
AREA
580
HEIGHT
533
19-Jun-2024
17:32
ALSHS
Server



AFTER

MASS
54
AREA
736
HEIGHT
530
15-Jul-2024
09:39
ALSHS

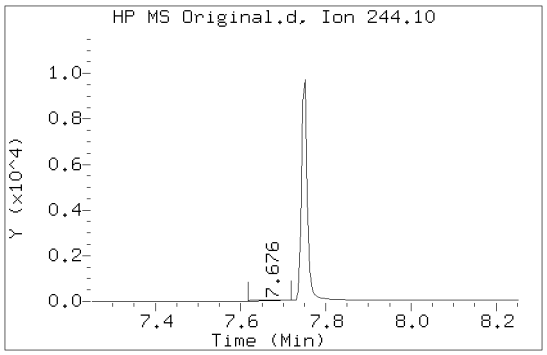


4-Terphenyl-d14 (1718-51-0)

Reason Code:

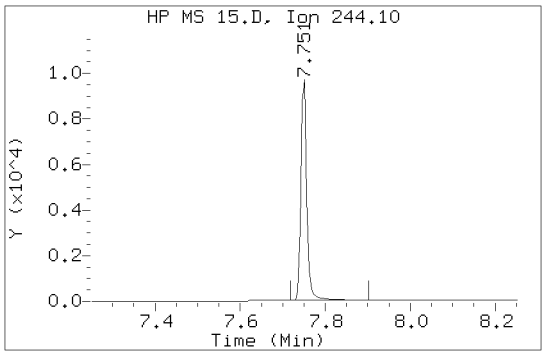
BEFORE

MASS
244.1
AREA
132
HEIGHT
20
19-Jun-2024
17:32
ALSHS
Server



AFTER

MASS
244.1
AREA
9441
HEIGHT
9671
15-Jul-2024
09:39
ALSHS

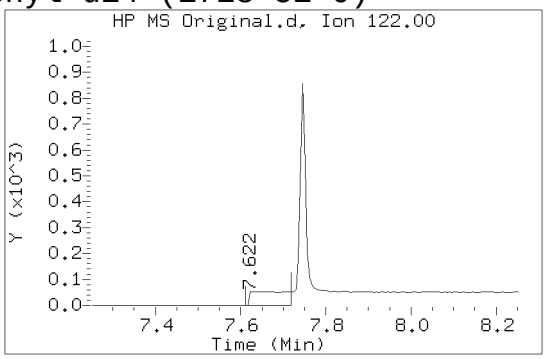


Data File : \\NAHSTWS005\Target\chem\SV6.i\240619.b\15.D
Inj Date : 19-JUN-2024 17:16
InstruID : SV6.i
LabSampID : HS24060293-06

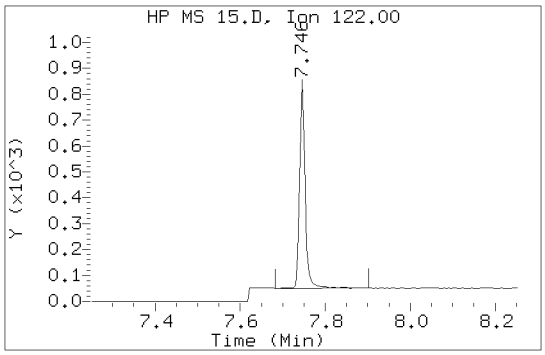
4-Terphenyl-d14 (1718-51-0)

Reason Code:

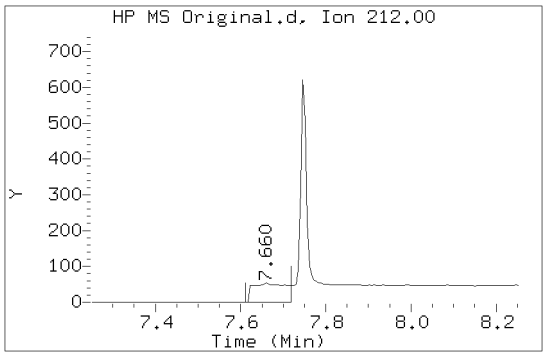
BEFORE
MASS
122
AREA
314
HEIGHT
52
19-Jun-2024
17:32
ALSHS
Server



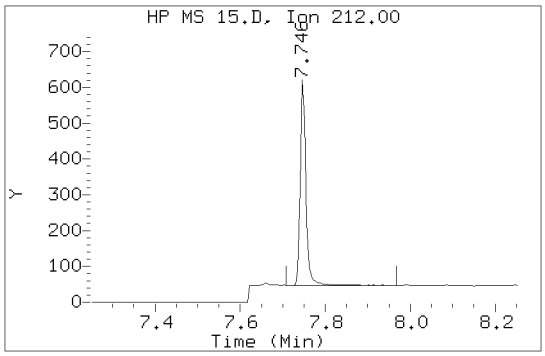
AFTER
MASS
122
AREA
734
HEIGHT
805
15-Jul-2024
09:39
ALSHS



BEFORE
MASS
212
AREA
294
HEIGHT
53
19-Jun-2024
17:32
ALSHS
Server



AFTER
MASS
212
AREA
539
HEIGHT
574
15-Jul-2024
09:39
ALSHS



Data File: \\NAHSTWS005\Target\chem\SV6.i\240619.b\16.D Page 1
Report Date: 15-Jul-2024 09:40

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240619.b\16.D
Lab Smp Id: 14DX-0.08 Client Smp ID: 14DX-0.08
Inj Date : 19-JUN-2024 17:33
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240619.b\DXSIM.m
Meth Date : 15-Jul-2024 09:40 SV6.i Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 16 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7014

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	2.186	2.186	(1.000)	2500	0.10000	(aQM)
* 45 Naphthalene-d8	136	3.180	3.180	(1.000)	7678	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.594	2.594	(1.000)	1791	0.08000	0.07770(M)
* 86 Acenaphthene-d10	164	4.781	4.781	(1.000)	4587	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.172	4.172	(0.873)	5392	0.08000	0.07690(M)
* 126 Phenanthrene-d10	188	6.181	6.181	(1.000)	8665	0.10000	(M)
* 182 Chrysene-d12	240	8.730	8.730	(1.000)	7058	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.751	7.751	(0.888)	9296	0.08000	0.06465(M)
* 198 Perylene-d12	264	10.371	10.371	(1.000)	7550	0.10000	
1 1,4-Dioxane	58	0.904	0.904	(0.414)	393	0.08000	0.07339(QM)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240619.b\16.D

Date : 19-JUN-2024 17:33

Client ID: 14DX-0.08

Instrument: SV6.i

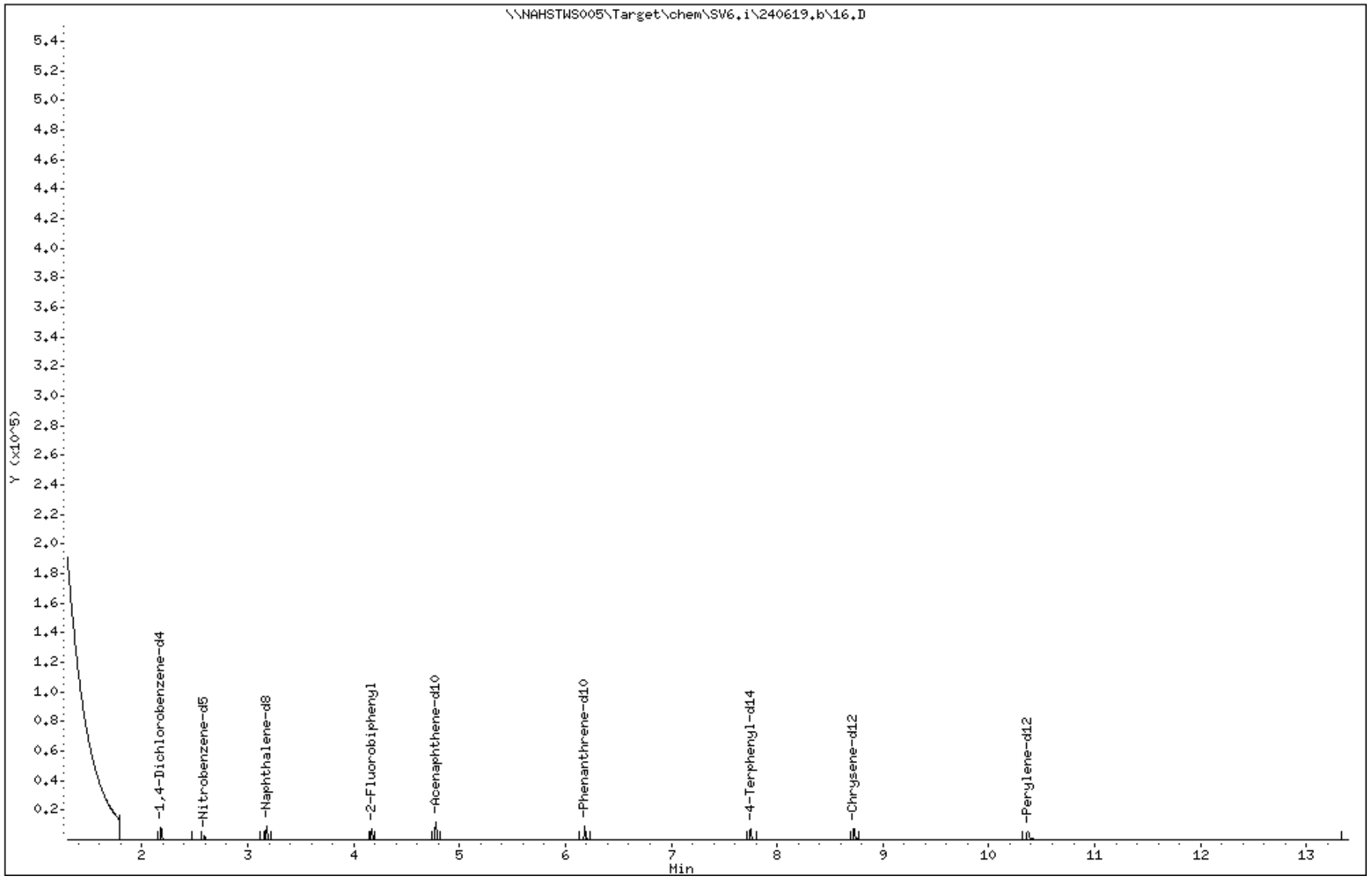
Sample Info: 14DX-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

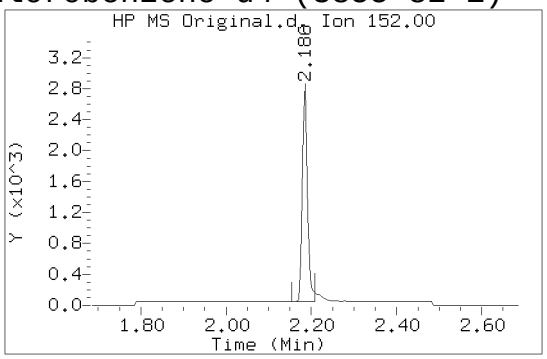


Data File : \\NAHSTWS005\Target\chem\SV6.i\240619.b\16.D
Inj Date : 19-JUN-2024 17:33
InstruID : SV6.i
LabSampID : 14DX-0.08

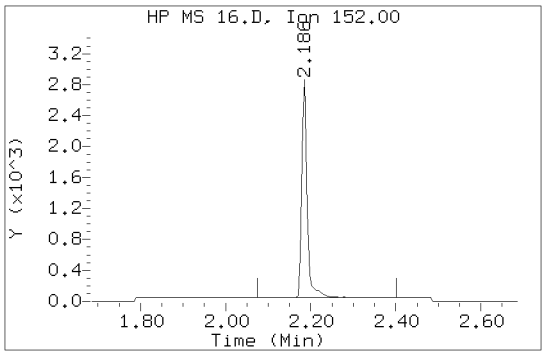
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

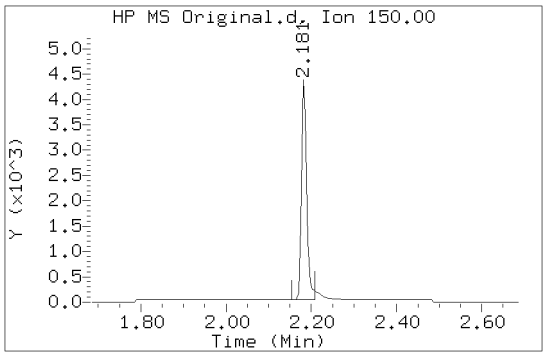
BEFORE
MASS
152
AREA
2356
HEIGHT
2818
19-Jun-2024
17:48
ALSHS
Server



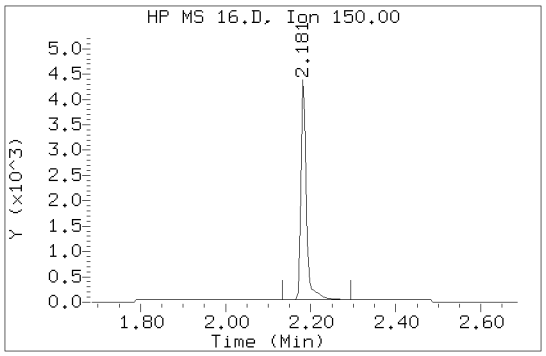
AFTER
MASS
152
AREA
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HEIGHT
2817
15-Jul-2024
09:39
ALSHS



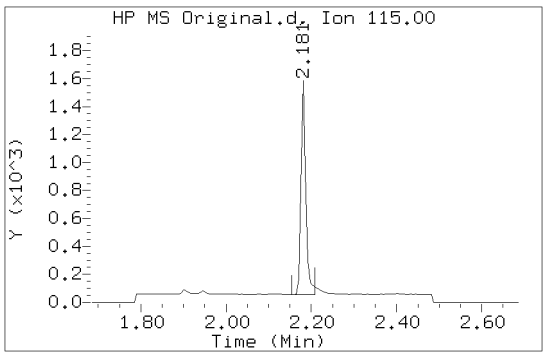
BEFORE
MASS
150
AREA
3705
HEIGHT
4340
19-Jun-2024
17:48
ALSHS
Server



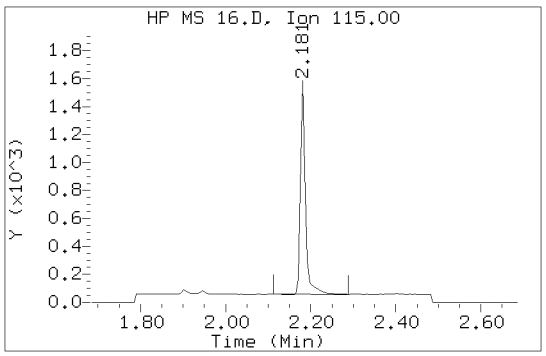
AFTER
MASS
150
AREA
3862
HEIGHT
4336
15-Jul-2024
09:39
ALSHS



BEFORE
MASS
115
AREA
1200
HEIGHT
1529
19-Jun-2024
17:48
ALSHS
Server



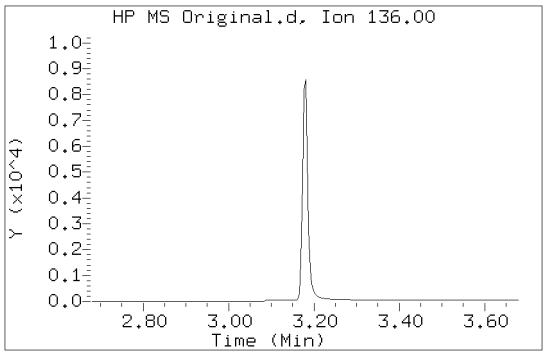
AFTER
MASS
115
AREA
1248
HEIGHT
1527
15-Jul-2024
09:39
ALSHS



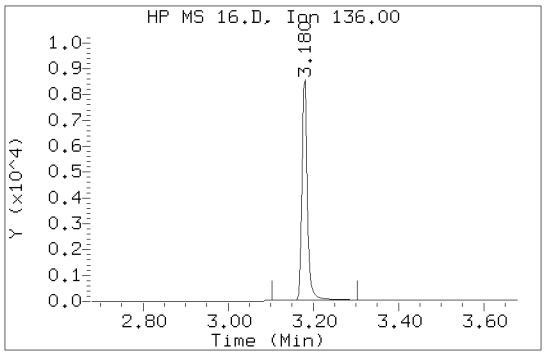
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
0
HEIGHT
0
19-Jun-2024
17:48
ALSHS
Server



AFTER
MASS
136
AREA
7678
HEIGHT
8524
15-Jul-2024
09:39
ALSHS



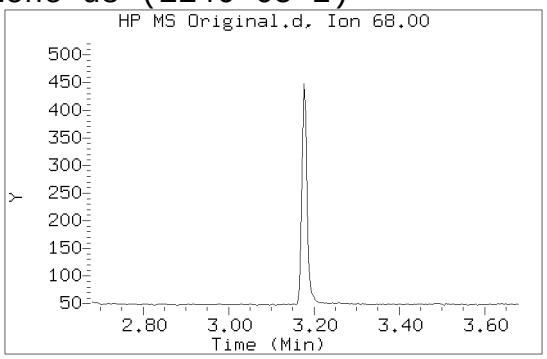
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Inj Date : 19-JUN-2024 17:33
InstruID : SV6.i
LabSampID : 14DX-0.08

Naphthalene-d8 (1146-65-2)

Reason Code:

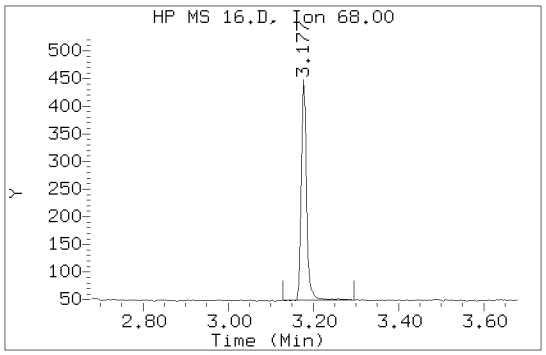
BEFORE

MASS
68
AREA
0
HEIGHT
0
19-Jun-2024
17:48
ALSHS
Server



AFTER

MASS
68
AREA
349
HEIGHT
399
15-Jul-2024
09:39
ALSHS

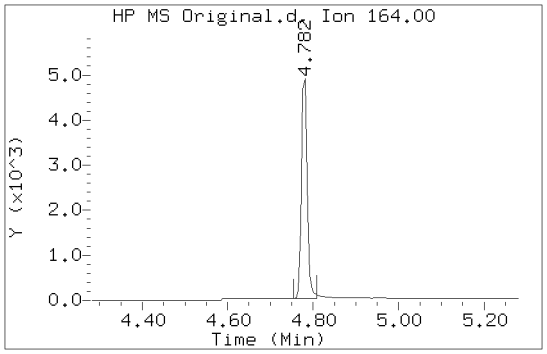


Acenaphthene-d10 (15067-26-2)

Reason Code:

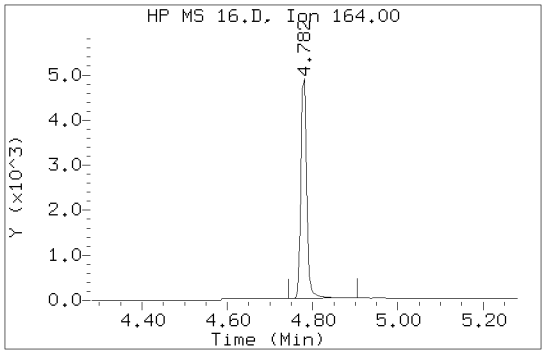
BEFORE

MASS
164
AREA
4523
HEIGHT
4874
19-Jun-2024
17:48
ALSHS
Server



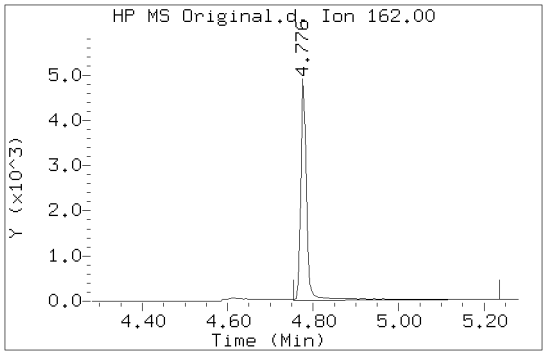
AFTER

MASS
164
AREA
4587
HEIGHT
4871
15-Jul-2024
09:39
ALSHS



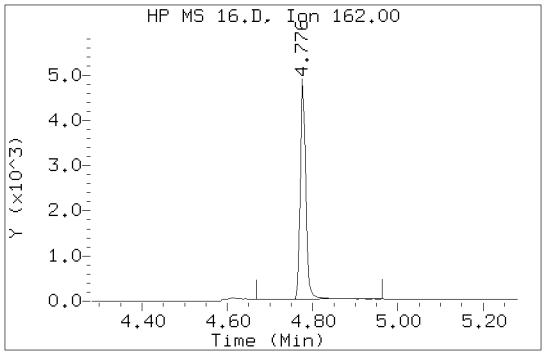
BEFORE

MASS
162
AREA
4817
HEIGHT
4906
19-Jun-2024
17:48
ALSHS
Server



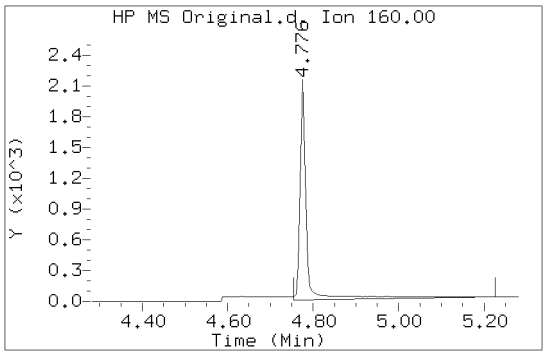
AFTER

MASS
162
AREA
4256
HEIGHT
4871
15-Jul-2024
09:39
ALSHS



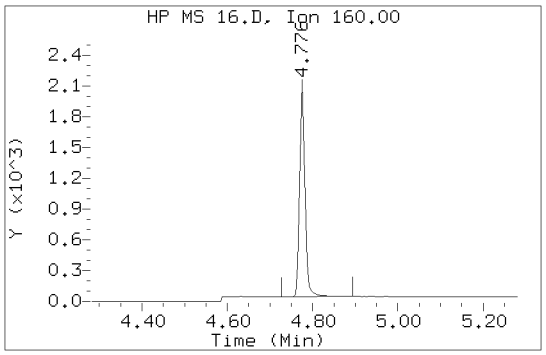
BEFORE

MASS
160
AREA
2297
HEIGHT
2150
19-Jun-2024
17:48
ALSHS
Server



AFTER

MASS
160
AREA
1797
HEIGHT
2118
15-Jul-2024
09:39
ALSHS



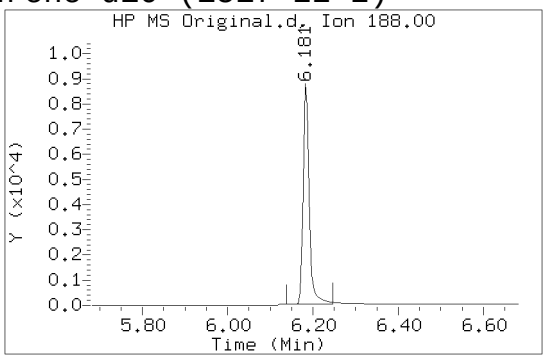
Data File : \\NAHSTWS005\Target\chem\SV6.i\240619.b\16.D
Inj Date : 19-JUN-2024 17:33
InstruID : SV6.i
LabSampID : 14DX-0.08

Phenanthrene-d10 (1517-22-2)

Reason Code:

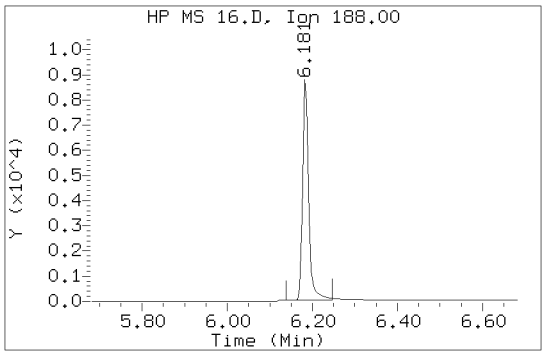
BEFORE

MASS
188
AREA
8665
HEIGHT
8761
19-Jun-2024
17:48
ALSHS
Server



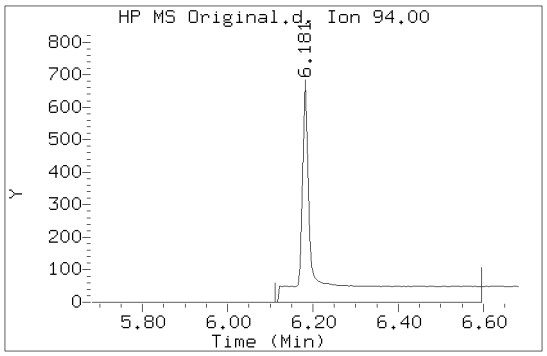
AFTER

MASS
188
AREA
8665
HEIGHT
8761
15-Jul-2024
09:39
ALSHS



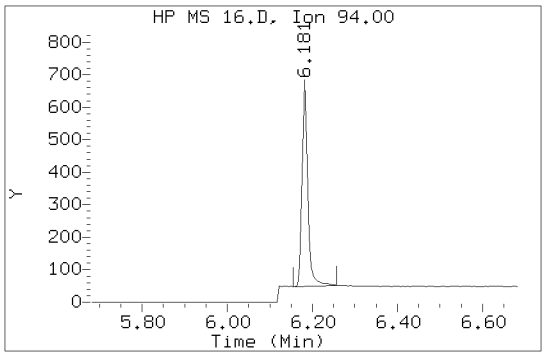
BEFORE

MASS
94
AREA
1995
HEIGHT
684
19-Jun-2024
17:48
ALSHS
Server



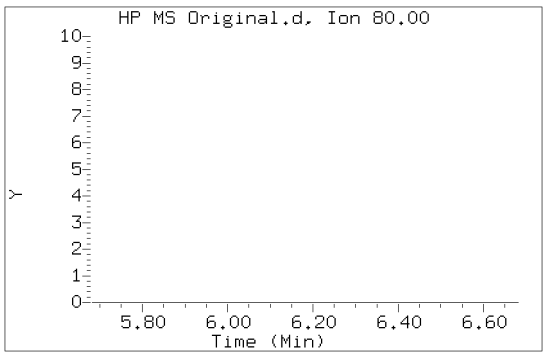
AFTER

MASS
94
AREA
584
HEIGHT
635
15-Jul-2024
09:39
ALSHS



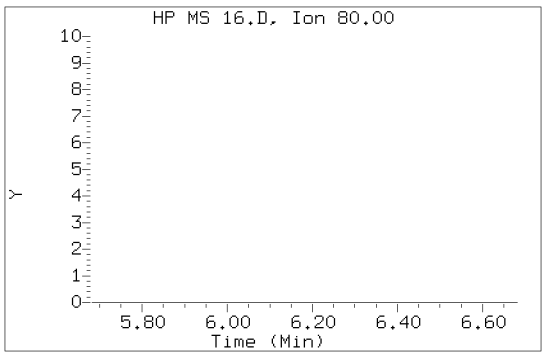
BEFORE

MASS
80
AREA
0
HEIGHT
0
19-Jun-2024
17:48
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
15-Jul-2024
09:39
ALSHS

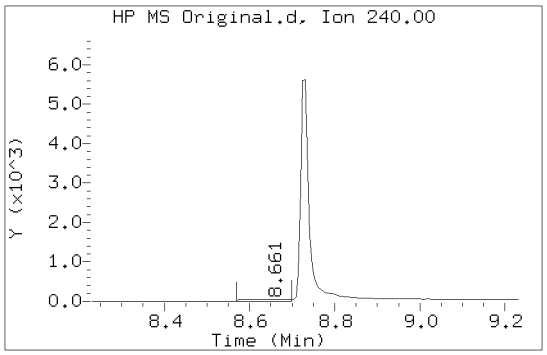


Chrysene-d12 (1719-03-5)

Reason Code:

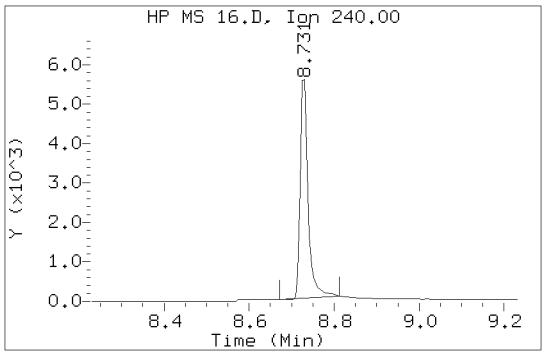
BEFORE

MASS
240
AREA
354
HEIGHT
50
19-Jun-2024
17:48
ALSHS
Server



AFTER

MASS
240
AREA
7058
HEIGHT
5538
15-Jul-2024
09:39
ALSHS



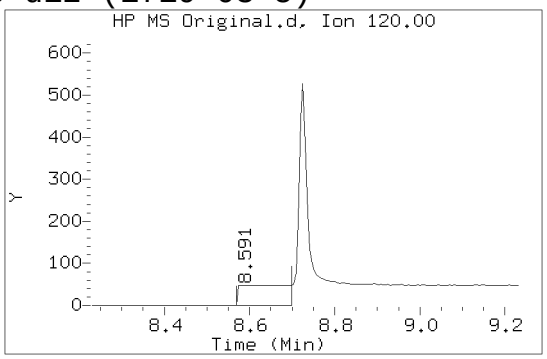
Data File : \\NAHSTWS005\Target\chem\SV6.i\240619.b\16.D
Inj Date : 19-JUN-2024 17:33
InstruID : SV6.i
LabSampID : 14DX-0.08

Chrysene-d12 (1719-03-5)

Reason Code:

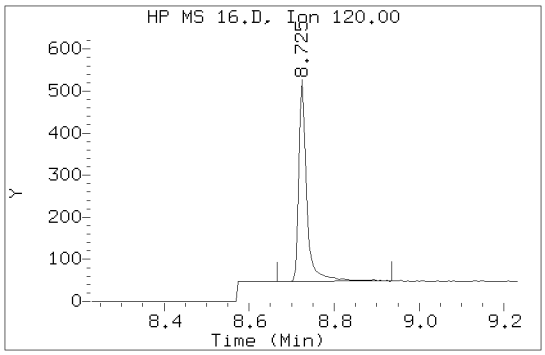
BEFORE

MASS
120
AREA
366
HEIGHT
48
19-Jun-2024
17:48
ALSHS
Server



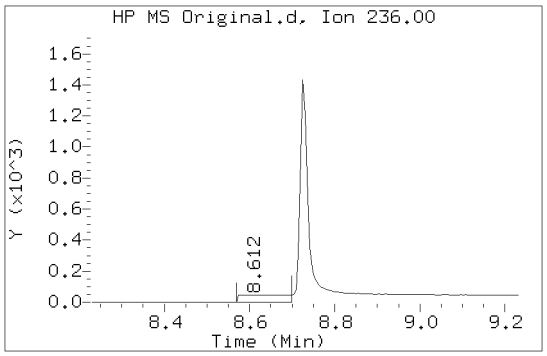
AFTER

MASS
120
AREA
620
HEIGHT
479
15-Jul-2024
09:39
ALSHS



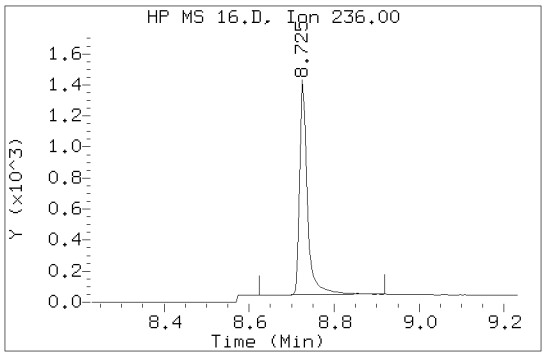
BEFORE

MASS
236
AREA
351
HEIGHT
46
19-Jun-2024
17:48
ALSHS
Server



AFTER

MASS
236
AREA
1750
HEIGHT
1384
15-Jul-2024
09:39
ALSHS

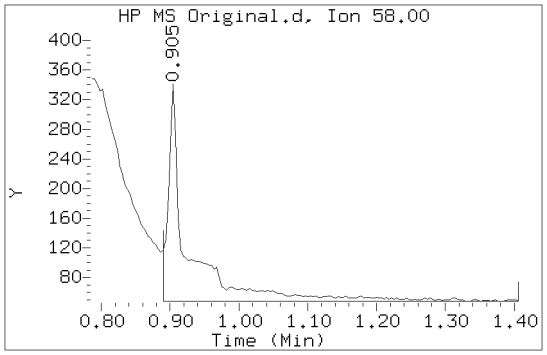


1,4-Dioxane ()

Reason Code:

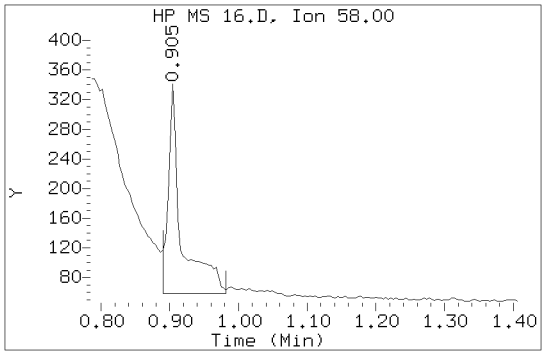
BEFORE

MASS
58
AREA
596
HEIGHT
293
19-Jun-2024
17:48
ALSHS
Server



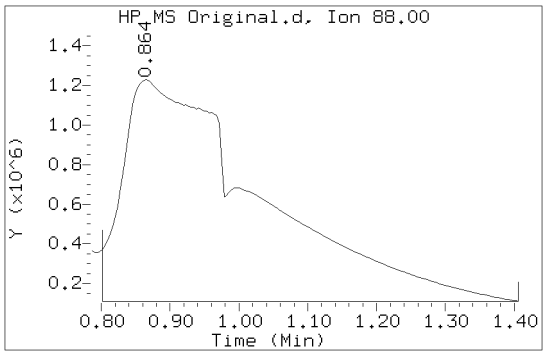
AFTER

MASS
58
AREA
393
HEIGHT
283
15-Jul-2024
09:39
ALSHS



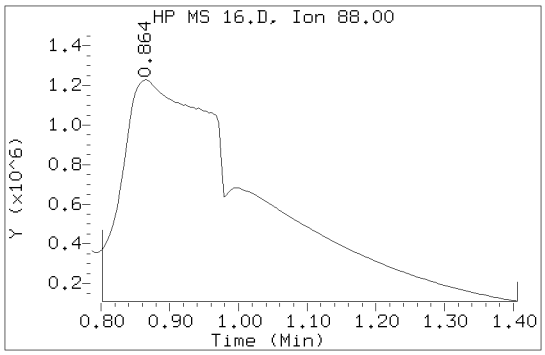
BEFORE

MASS
88
AREA
15787274
HEIGHT
1119656
19-Jun-2024
17:48
ALSHS
Server



AFTER

MASS
88
AREA
15787274
HEIGHT
1119656
15-Jul-2024
09:39
ALSHS



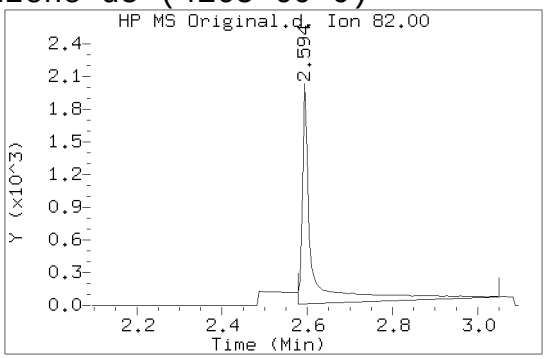
Data File : \\NAHSTWS005\Target\chem\SV6.i\240619.b\16.D
Inj Date : 19-JUN-2024 17:33
InstruID : SV6.i
LabSampID : 14DX-0.08

Nitrobenzene-d5 (4165-60-0)

Reason Code:

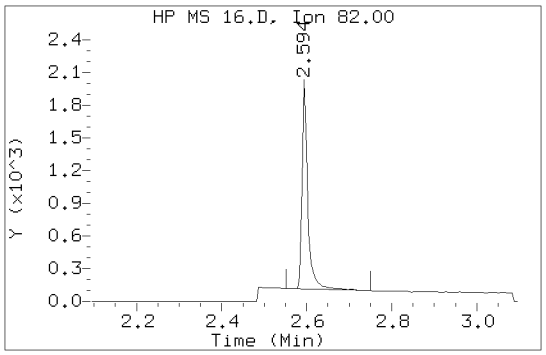
BEFORE

MASS
82
AREA
3192
HEIGHT
2018
19-Jun-2024
17:48
ALSHS
Server



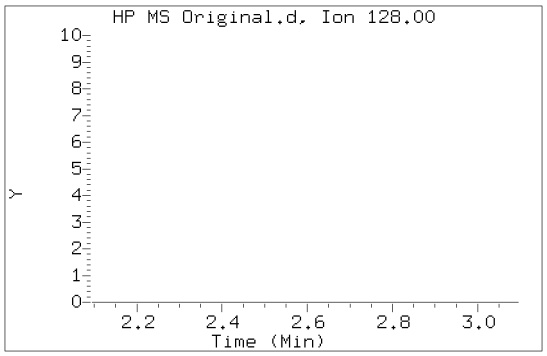
AFTER

MASS
82
AREA
1791
HEIGHT
1920
15-Jul-2024
09:39
ALSHS



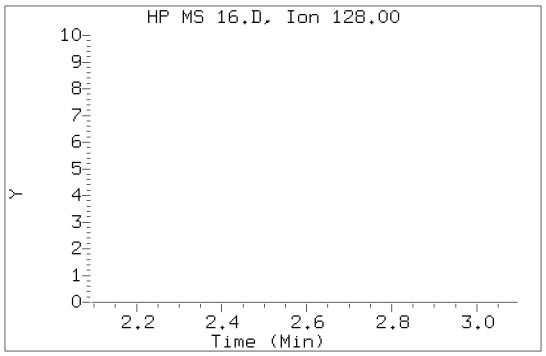
BEFORE

MASS
128
AREA
0
HEIGHT
0
19-Jun-2024
17:48
ALSHS
Server



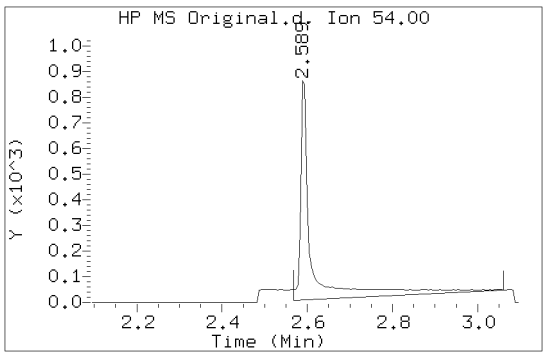
AFTER

MASS
128
AREA
0
HEIGHT
0
15-Jul-2024
09:39
ALSHS



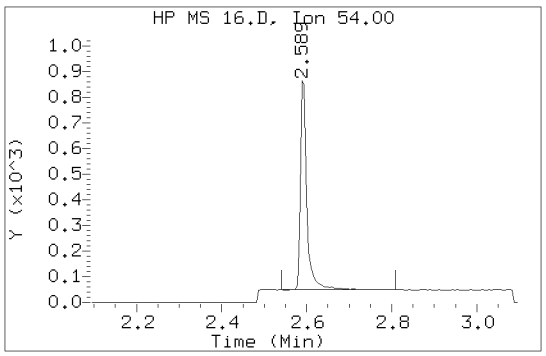
BEFORE

MASS
54
AREA
1504
HEIGHT
855
19-Jun-2024
17:48
ALSHS
Server



AFTER

MASS
54
AREA
852
HEIGHT
814
15-Jul-2024
09:39
ALSHS

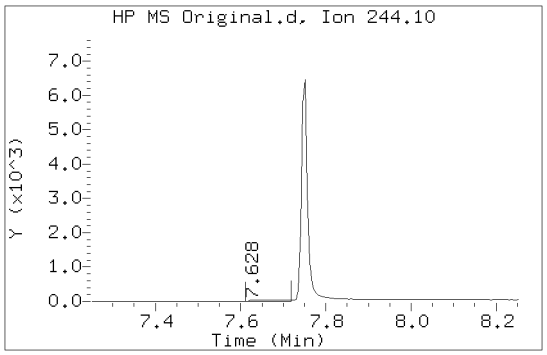


4-Terphenyl-d14 (1718-51-0)

Reason Code:

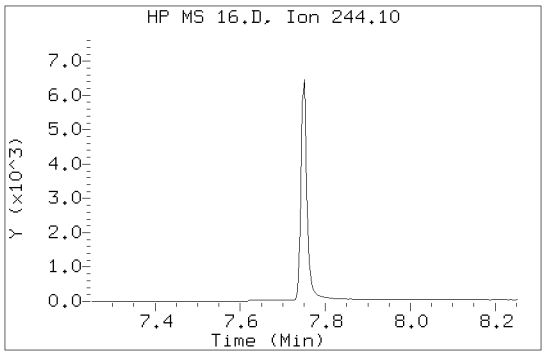
BEFORE

MASS
244.1
AREA
272
HEIGHT
45
19-Jun-2024
17:48
ALSHS
Server



AFTER

MASS
244.1
AREA
9296
HEIGHT
6460
15-Jul-2024
09:39
ALSHS



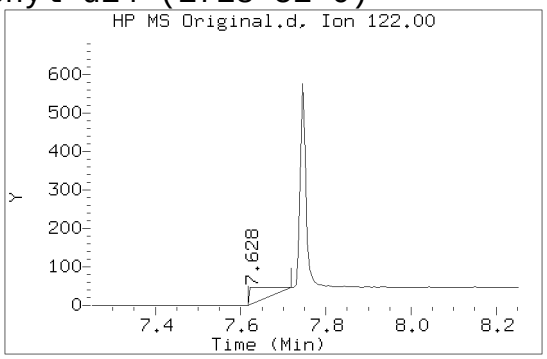
Data File : \\NAHSTWS005\Target\chem\SV6.i\240619.b\16.D
Inj Date : 19-JUN-2024 17:33
InstruID : SV6.i
LabSampID : 14DX-0.08

4-Terphenyl-d14 (1718-51-0)

Reason Code:

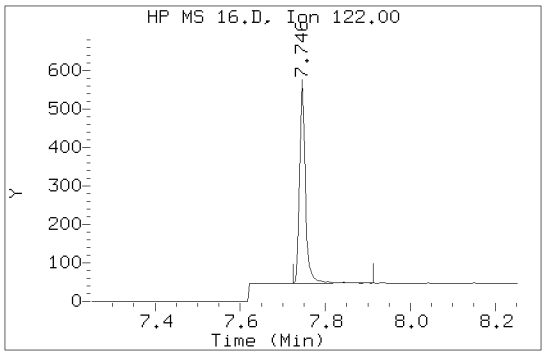
BEFORE

MASS
122
AREA
135
HEIGHT
42
19-Jun-2024
17:48
ALSHS
Server



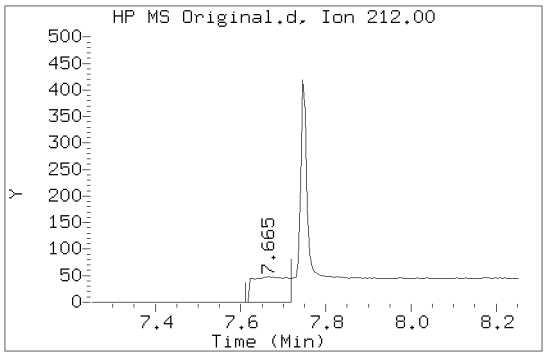
AFTER

MASS
122
AREA
505
HEIGHT
528
15-Jul-2024
09:39
ALSHS



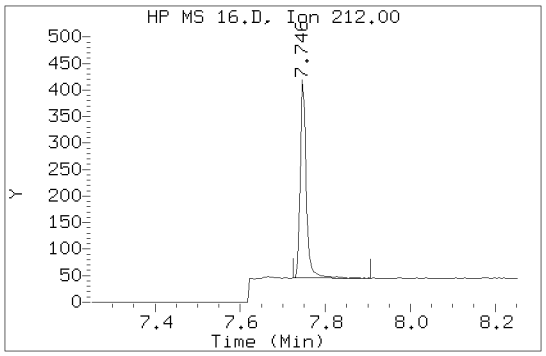
BEFORE

MASS
212
AREA
280
HEIGHT
48
19-Jun-2024
17:48
ALSHS
Server



AFTER

MASS
212
AREA
372
HEIGHT
373
15-Jul-2024
09:39
ALSHS

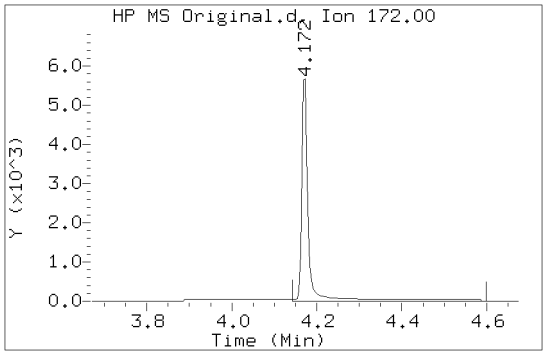


2-Fluorobiphenyl (321-60-8)

Reason Code:

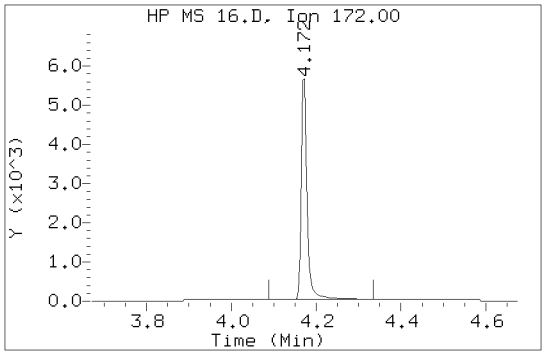
BEFORE

MASS
172
AREA
6759
HEIGHT
5673
19-Jun-2024
17:48
ALSHS
Server



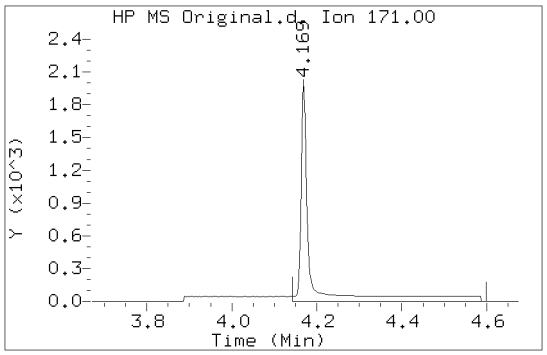
AFTER

MASS
172
AREA
5392
HEIGHT
5625
15-Jul-2024
09:39
ALSHS



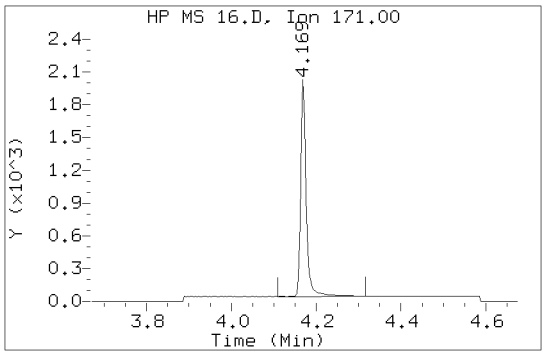
BEFORE

MASS
171
AREA
3051
HEIGHT
2030
19-Jun-2024
17:48
ALSHS
Server



AFTER

MASS
171
AREA
1799
HEIGHT
1984
15-Jul-2024
09:39
ALSHS



HS24060293-MSVOA-SW8260

ALS WO# HS24060293

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right partner.

Form 1

Organic Analysis Data Sheet

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24060293

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 18/24

07/15/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 18/24

Workorder HS24060293

Volatiles by EPA Volatiles Organics by Method 8260C

MW5_060524	Collected	Received	Matrix	Basis
HS24060293-01	06/05/24 09:25	06/06/24 09:45	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 00:19	VOA7_469580	X061528.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 00:19	VOA7_469580	X061528.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	06/16/24 00:19	VOA7_469580	X061528.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 00:19	VOA7_469580	X061528.D
1,1-Dichloroethane	ug/L	3.3		0.20	1.0	1.0	1	06/16/24 00:19	VOA7_469580	X061528.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 00:19	VOA7_469580	X061528.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 00:19	VOA7_469580	X061528.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/16/24 00:19	VOA7_469580	X061528.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/16/24 00:19	VOA7_469580	X061528.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/16/24 00:19	VOA7_469580	X061528.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 00:19	VOA7_469580	X061528.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 00:19	VOA7_469580	X061528.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 00:19	VOA7_469580	X061528.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/16/24 00:19	VOA7_469580	X061528.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 00:19	VOA7_469580	X061528.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/16/24 00:19	VOA7_469580	X061528.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 00:19	VOA7_469580	X061528.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/16/24 00:19	VOA7_469580	X061528.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 00:19	VOA7_469580	X061528.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/16/24 00:19	VOA7_469580	X061528.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 00:19	VOA7_469580	X061528.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	06/16/24 00:19	VOA7_469580	X061528.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 00:19	VOA7_469580	X061528.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	06/16/24 00:19	VOA7_469580	X061528.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	06/16/24 00:19	VOA7_469580	X061528.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 00:19	VOA7_469580	X061528.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	06/16/24 00:19	VOA7_469580	X061528.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	06/16/24 00:19	VOA7_469580	X061528.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 00:19	VOA7_469580	X061528.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/16/24 00:19	VOA7_469580	X061528.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 00:19	VOA7_469580	X061528.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 00:19	VOA7_469580	X061528.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	06/16/24 00:19	VOA7_469580	X061528.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 18/24

Workorder HS24060293

Volatiles by EPA Volatiles Organics by Method 8260C

MW5_060524	Collected	Received	Matrix	Basis
HS24060293-01	06/05/24 09:25	06/06/24 09:45	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	06/16/24 00:19	VOA7_469580	X061528.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	06/16/24 00:19	VOA7_469580	X061528.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	06/16/24 00:19	VOA7_469580	X061528.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 00:19	VOA7_469580	X061528.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 00:19	VOA7_469580	X061528.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 00:19	VOA7_469580	X061528.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 00:19	VOA7_469580	X061528.D
cis-1,2-Dichloroethene	ug/L	12		0.20	1.0	1.0	1	06/16/24 00:19	VOA7_469580	X061528.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 00:19	VOA7_469580	X061528.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 00:19	VOA7_469580	X061528.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 00:19	VOA7_469580	X061528.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 00:19	VOA7_469580	X061528.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 00:19	VOA7_469580	X061528.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	06/16/24 00:19	VOA7_469580	X061528.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 00:19	VOA7_469580	X061528.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	06/16/24 00:19	VOA7_469580	X061528.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	06/16/24 00:19	VOA7_469580	X061528.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 00:19	VOA7_469580	X061528.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/16/24 00:19	VOA7_469580	X061528.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 00:19	VOA7_469580	X061528.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 00:19	VOA7_469580	X061528.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 00:19	VOA7_469580	X061528.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 00:19	VOA7_469580	X061528.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 00:19	VOA7_469580	X061528.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 00:19	VOA7_469580	X061528.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 00:19	VOA7_469580	X061528.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 00:19	VOA7_469580	X061528.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 00:19	VOA7_469580	X061528.D
Trichloroethene	ug/L	44		0.20	1.0	1.0	1	06/16/24 00:19	VOA7_469580	X061528.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 00:19	VOA7_469580	X061528.D
Vinyl chloride	ug/L	3.7		0.20	1.0	1.0	1	06/16/24 00:19	VOA7_469580	X061528.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 18/24

Workorder HS24060293

Volatiles by EPA Volatiles Organics by Method 8260C

18CPTMW08SW_060524	Collected	Received	Matrix	Basis
HS24060293-03	06/05/24 10:55	06/06/24 09:45	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 00:41	VOA7_469580	X061529.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 00:41	VOA7_469580	X061529.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	06/16/24 00:41	VOA7_469580	X061529.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 00:41	VOA7_469580	X061529.D
1,1-Dichloroethane	ug/L	3.4		0.20	1.0	1.0	1	06/16/24 00:41	VOA7_469580	X061529.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 00:41	VOA7_469580	X061529.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 00:41	VOA7_469580	X061529.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/16/24 00:41	VOA7_469580	X061529.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/16/24 00:41	VOA7_469580	X061529.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/16/24 00:41	VOA7_469580	X061529.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 00:41	VOA7_469580	X061529.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 00:41	VOA7_469580	X061529.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 00:41	VOA7_469580	X061529.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/16/24 00:41	VOA7_469580	X061529.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 00:41	VOA7_469580	X061529.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/16/24 00:41	VOA7_469580	X061529.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 00:41	VOA7_469580	X061529.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/16/24 00:41	VOA7_469580	X061529.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 00:41	VOA7_469580	X061529.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/16/24 00:41	VOA7_469580	X061529.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 00:41	VOA7_469580	X061529.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	06/16/24 00:41	VOA7_469580	X061529.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 00:41	VOA7_469580	X061529.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	06/16/24 00:41	VOA7_469580	X061529.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	06/16/24 00:41	VOA7_469580	X061529.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 00:41	VOA7_469580	X061529.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	06/16/24 00:41	VOA7_469580	X061529.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	06/16/24 00:41	VOA7_469580	X061529.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 00:41	VOA7_469580	X061529.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/16/24 00:41	VOA7_469580	X061529.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 00:41	VOA7_469580	X061529.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 00:41	VOA7_469580	X061529.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	06/16/24 00:41	VOA7_469580	X061529.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 18/24

Workorder HS24060293

Volatiles by EPA Volatiles Organics by Method 8260C

18CPTMW08SW_060524	Collected	Received	Matrix	Basis
HS24060293-03	06/05/24 10:55	06/06/24 09:45	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	06/16/24 00:41	VOA7_469580	X061529.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	06/16/24 00:41	VOA7_469580	X061529.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	06/16/24 00:41	VOA7_469580	X061529.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 00:41	VOA7_469580	X061529.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 00:41	VOA7_469580	X061529.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 00:41	VOA7_469580	X061529.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 00:41	VOA7_469580	X061529.D
cis-1,2-Dichloroethene	ug/L	8.9		0.20	1.0	1.0	1	06/16/24 00:41	VOA7_469580	X061529.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 00:41	VOA7_469580	X061529.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 00:41	VOA7_469580	X061529.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 00:41	VOA7_469580	X061529.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 00:41	VOA7_469580	X061529.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 00:41	VOA7_469580	X061529.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	06/16/24 00:41	VOA7_469580	X061529.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 00:41	VOA7_469580	X061529.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	06/16/24 00:41	VOA7_469580	X061529.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	06/16/24 00:41	VOA7_469580	X061529.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 00:41	VOA7_469580	X061529.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/16/24 00:41	VOA7_469580	X061529.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 00:41	VOA7_469580	X061529.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 00:41	VOA7_469580	X061529.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 00:41	VOA7_469580	X061529.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 00:41	VOA7_469580	X061529.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 00:41	VOA7_469580	X061529.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 00:41	VOA7_469580	X061529.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 00:41	VOA7_469580	X061529.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 00:41	VOA7_469580	X061529.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 00:41	VOA7_469580	X061529.D
Trichloroethene	ug/L	30		0.20	1.0	1.0	1	06/16/24 00:41	VOA7_469580	X061529.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 00:41	VOA7_469580	X061529.D
Vinyl chloride	ug/L	0.74	J	0.20	1.0	1.0	1	06/16/24 00:41	VOA7_469580	X061529.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 18/24

Workorder HS24060293

Volatiles by EPA Volatiles Organics by Method 8260C

18CPTMW03SW_060524	Collected	Received	Matrix	Basis
HS24060293-04	06/05/24 11:40	06/06/24 09:45	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 01:04	VOA7_469580	X061530.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 01:04	VOA7_469580	X061530.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	06/16/24 01:04	VOA7_469580	X061530.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 01:04	VOA7_469580	X061530.D
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 01:04	VOA7_469580	X061530.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 01:04	VOA7_469580	X061530.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 01:04	VOA7_469580	X061530.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/16/24 01:04	VOA7_469580	X061530.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/16/24 01:04	VOA7_469580	X061530.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/16/24 01:04	VOA7_469580	X061530.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 01:04	VOA7_469580	X061530.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 01:04	VOA7_469580	X061530.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 01:04	VOA7_469580	X061530.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/16/24 01:04	VOA7_469580	X061530.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 01:04	VOA7_469580	X061530.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/16/24 01:04	VOA7_469580	X061530.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 01:04	VOA7_469580	X061530.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/16/24 01:04	VOA7_469580	X061530.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 01:04	VOA7_469580	X061530.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/16/24 01:04	VOA7_469580	X061530.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 01:04	VOA7_469580	X061530.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	06/16/24 01:04	VOA7_469580	X061530.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 01:04	VOA7_469580	X061530.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	06/16/24 01:04	VOA7_469580	X061530.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	06/16/24 01:04	VOA7_469580	X061530.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 01:04	VOA7_469580	X061530.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	06/16/24 01:04	VOA7_469580	X061530.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	06/16/24 01:04	VOA7_469580	X061530.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 01:04	VOA7_469580	X061530.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/16/24 01:04	VOA7_469580	X061530.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 01:04	VOA7_469580	X061530.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 01:04	VOA7_469580	X061530.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	06/16/24 01:04	VOA7_469580	X061530.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 18/24

Workorder HS24060293

Volatiles by EPA Volatiles Organics by Method 8260C

18CPTMW03SW_060524	Collected	Received	Matrix	Basis
HS24060293-04	06/05/24 11:40	06/06/24 09:45	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	06/16/24 01:04	VOA7_469580	X061530.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	06/16/24 01:04	VOA7_469580	X061530.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	06/16/24 01:04	VOA7_469580	X061530.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 01:04	VOA7_469580	X061530.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 01:04	VOA7_469580	X061530.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 01:04	VOA7_469580	X061530.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 01:04	VOA7_469580	X061530.D
cis-1,2-Dichloroethene	ug/L	14		0.20	1.0	1.0	1	06/16/24 01:04	VOA7_469580	X061530.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 01:04	VOA7_469580	X061530.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 01:04	VOA7_469580	X061530.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 01:04	VOA7_469580	X061530.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 01:04	VOA7_469580	X061530.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 01:04	VOA7_469580	X061530.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	06/16/24 01:04	VOA7_469580	X061530.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 01:04	VOA7_469580	X061530.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	06/16/24 01:04	VOA7_469580	X061530.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	06/16/24 01:04	VOA7_469580	X061530.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 01:04	VOA7_469580	X061530.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/16/24 01:04	VOA7_469580	X061530.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 01:04	VOA7_469580	X061530.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 01:04	VOA7_469580	X061530.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 01:04	VOA7_469580	X061530.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 01:04	VOA7_469580	X061530.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 01:04	VOA7_469580	X061530.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 01:04	VOA7_469580	X061530.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 01:04	VOA7_469580	X061530.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 01:04	VOA7_469580	X061530.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 01:04	VOA7_469580	X061530.D
Trichloroethene	ug/L	7.5		0.20	1.0	1.0	1	06/16/24 01:04	VOA7_469580	X061530.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 01:04	VOA7_469580	X061530.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 01:04	VOA7_469580	X061530.D

Form 1 - Organic Analysis Data Sheet

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
Workorder: HS24060293

Volatiles by EPA Volatiles Organics by Method 8260C

18CPTMW022DW_060524	Collected	Received	Matrix	Basis
HS24060293-05	06/05/24 12:35	06/06/24 09:45	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 01:27	VOA7_469580	X061531.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 01:27	VOA7_469580	X061531.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	06/16/24 01:27	VOA7_469580	X061531.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 01:27	VOA7_469580	X061531.D
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 01:27	VOA7_469580	X061531.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 01:27	VOA7_469580	X061531.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 01:27	VOA7_469580	X061531.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/16/24 01:27	VOA7_469580	X061531.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/16/24 01:27	VOA7_469580	X061531.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/16/24 01:27	VOA7_469580	X061531.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 01:27	VOA7_469580	X061531.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 01:27	VOA7_469580	X061531.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 01:27	VOA7_469580	X061531.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/16/24 01:27	VOA7_469580	X061531.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 01:27	VOA7_469580	X061531.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/16/24 01:27	VOA7_469580	X061531.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 01:27	VOA7_469580	X061531.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/16/24 01:27	VOA7_469580	X061531.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 01:27	VOA7_469580	X061531.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/16/24 01:27	VOA7_469580	X061531.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 01:27	VOA7_469580	X061531.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	06/16/24 01:27	VOA7_469580	X061531.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 01:27	VOA7_469580	X061531.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	06/16/24 01:27	VOA7_469580	X061531.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	06/16/24 01:27	VOA7_469580	X061531.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 01:27	VOA7_469580	X061531.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	06/16/24 01:27	VOA7_469580	X061531.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	06/16/24 01:27	VOA7_469580	X061531.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 01:27	VOA7_469580	X061531.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/16/24 01:27	VOA7_469580	X061531.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 01:27	VOA7_469580	X061531.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 01:27	VOA7_469580	X061531.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	06/16/24 01:27	VOA7_469580	X061531.D

Form 1 - Organic Analysis Data Sheet

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
Workorder: HS24060293

Volatiles by EPA Volatiles Organics by Method 8260C

18CPTMW022DW_060524	Collected	Received	Matrix	Basis
HS24060293-05	06/05/24 12:35	06/06/24 09:45	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	06/16/24 01:27	VOA7_469580	X061531.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	06/16/24 01:27	VOA7_469580	X061531.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	06/16/24 01:27	VOA7_469580	X061531.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 01:27	VOA7_469580	X061531.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 01:27	VOA7_469580	X061531.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 01:27	VOA7_469580	X061531.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 01:27	VOA7_469580	X061531.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 01:27	VOA7_469580	X061531.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 01:27	VOA7_469580	X061531.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 01:27	VOA7_469580	X061531.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 01:27	VOA7_469580	X061531.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 01:27	VOA7_469580	X061531.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 01:27	VOA7_469580	X061531.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	06/16/24 01:27	VOA7_469580	X061531.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 01:27	VOA7_469580	X061531.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	06/16/24 01:27	VOA7_469580	X061531.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	06/16/24 01:27	VOA7_469580	X061531.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 01:27	VOA7_469580	X061531.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/16/24 01:27	VOA7_469580	X061531.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 01:27	VOA7_469580	X061531.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 01:27	VOA7_469580	X061531.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 01:27	VOA7_469580	X061531.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 01:27	VOA7_469580	X061531.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 01:27	VOA7_469580	X061531.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 01:27	VOA7_469580	X061531.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 01:27	VOA7_469580	X061531.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 01:27	VOA7_469580	X061531.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 01:27	VOA7_469580	X061531.D
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 01:27	VOA7_469580	X061531.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 01:27	VOA7_469580	X061531.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 01:27	VOA7_469580	X061531.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 18/24

Workorder HS24060293

Volatiles by EPA Volatiles Organics by Method 8260C

18CPTMW022R_060524	Collected	Received	Matrix	Basis
HS24060293-06	06/05/24 13:20	06/06/24 09:45	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 01:50	VOA7_469580	X061532.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 01:50	VOA7_469580	X061532.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	06/16/24 01:50	VOA7_469580	X061532.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 01:50	VOA7_469580	X061532.D
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 01:50	VOA7_469580	X061532.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 01:50	VOA7_469580	X061532.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 01:50	VOA7_469580	X061532.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/16/24 01:50	VOA7_469580	X061532.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/16/24 01:50	VOA7_469580	X061532.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/16/24 01:50	VOA7_469580	X061532.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 01:50	VOA7_469580	X061532.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 01:50	VOA7_469580	X061532.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 01:50	VOA7_469580	X061532.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/16/24 01:50	VOA7_469580	X061532.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 01:50	VOA7_469580	X061532.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/16/24 01:50	VOA7_469580	X061532.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 01:50	VOA7_469580	X061532.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/16/24 01:50	VOA7_469580	X061532.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 01:50	VOA7_469580	X061532.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/16/24 01:50	VOA7_469580	X061532.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 01:50	VOA7_469580	X061532.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	06/16/24 01:50	VOA7_469580	X061532.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 01:50	VOA7_469580	X061532.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	06/16/24 01:50	VOA7_469580	X061532.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	06/16/24 01:50	VOA7_469580	X061532.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 01:50	VOA7_469580	X061532.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	06/16/24 01:50	VOA7_469580	X061532.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	06/16/24 01:50	VOA7_469580	X061532.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 01:50	VOA7_469580	X061532.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/16/24 01:50	VOA7_469580	X061532.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 01:50	VOA7_469580	X061532.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 01:50	VOA7_469580	X061532.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	06/16/24 01:50	VOA7_469580	X061532.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 18/24

Workorder **HS24060293**

Volatiles by EPA Volatiles Organics by Method 8260C

18CPTMW022R_060524	Collected	Received	Matrix	Basis
HS24060293-06	06/05/24 13:20	06/06/24 09:45	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	06/16/24 01:50	VOA7_469580	X061532.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	06/16/24 01:50	VOA7_469580	X061532.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	06/16/24 01:50	VOA7_469580	X061532.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 01:50	VOA7_469580	X061532.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 01:50	VOA7_469580	X061532.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 01:50	VOA7_469580	X061532.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 01:50	VOA7_469580	X061532.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 01:50	VOA7_469580	X061532.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 01:50	VOA7_469580	X061532.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 01:50	VOA7_469580	X061532.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 01:50	VOA7_469580	X061532.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 01:50	VOA7_469580	X061532.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 01:50	VOA7_469580	X061532.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	06/16/24 01:50	VOA7_469580	X061532.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 01:50	VOA7_469580	X061532.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	06/16/24 01:50	VOA7_469580	X061532.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	06/16/24 01:50	VOA7_469580	X061532.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 01:50	VOA7_469580	X061532.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/16/24 01:50	VOA7_469580	X061532.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 01:50	VOA7_469580	X061532.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 01:50	VOA7_469580	X061532.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 01:50	VOA7_469580	X061532.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 01:50	VOA7_469580	X061532.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 01:50	VOA7_469580	X061532.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 01:50	VOA7_469580	X061532.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 01:50	VOA7_469580	X061532.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 01:50	VOA7_469580	X061532.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 01:50	VOA7_469580	X061532.D
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 01:50	VOA7_469580	X061532.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/16/24 01:50	VOA7_469580	X061532.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	06/16/24 01:50	VOA7_469580	X061532.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 18/24

Workorder HS24060293

Volatiles by EPA Volatiles Organics by Method 8260C

CG-052424-73	Collected	Received	Matrix	Basis
HS24060293-07	06/05/24 00:00	06/06/24 09:45	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/15/24 20:53	VOA7_469580	X061519.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/15/24 20:53	VOA7_469580	X061519.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	06/15/24 20:53	VOA7_469580	X061519.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/15/24 20:53	VOA7_469580	X061519.D
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/15/24 20:53	VOA7_469580	X061519.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/15/24 20:53	VOA7_469580	X061519.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	06/15/24 20:53	VOA7_469580	X061519.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/15/24 20:53	VOA7_469580	X061519.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/15/24 20:53	VOA7_469580	X061519.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/15/24 20:53	VOA7_469580	X061519.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/15/24 20:53	VOA7_469580	X061519.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/15/24 20:53	VOA7_469580	X061519.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/15/24 20:53	VOA7_469580	X061519.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/15/24 20:53	VOA7_469580	X061519.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/15/24 20:53	VOA7_469580	X061519.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/15/24 20:53	VOA7_469580	X061519.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/15/24 20:53	VOA7_469580	X061519.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/15/24 20:53	VOA7_469580	X061519.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	06/15/24 20:53	VOA7_469580	X061519.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/15/24 20:53	VOA7_469580	X061519.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/15/24 20:53	VOA7_469580	X061519.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	06/15/24 20:53	VOA7_469580	X061519.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/15/24 20:53	VOA7_469580	X061519.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	06/15/24 20:53	VOA7_469580	X061519.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	06/15/24 20:53	VOA7_469580	X061519.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/15/24 20:53	VOA7_469580	X061519.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	06/15/24 20:53	VOA7_469580	X061519.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	06/15/24 20:53	VOA7_469580	X061519.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	06/15/24 20:53	VOA7_469580	X061519.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/15/24 20:53	VOA7_469580	X061519.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/15/24 20:53	VOA7_469580	X061519.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/15/24 20:53	VOA7_469580	X061519.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	06/15/24 20:53	VOA7_469580	X061519.D

Form 1 - Organic Analysis Data Sheet

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
Workorder: HS24060293

Volatiles by EPA Volatiles Organics by Method 8260C

CG-052424-73

	Collected	Received	Matrix	Basis
HS24060293-07	06/05/24 00:00	06/06/24 09:45	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	06/15/24 20:53	VOA7_469580	X061519.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	06/15/24 20:53	VOA7_469580	X061519.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	06/15/24 20:53	VOA7_469580	X061519.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/15/24 20:53	VOA7_469580	X061519.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/15/24 20:53	VOA7_469580	X061519.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	06/15/24 20:53	VOA7_469580	X061519.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/15/24 20:53	VOA7_469580	X061519.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/15/24 20:53	VOA7_469580	X061519.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/15/24 20:53	VOA7_469580	X061519.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/15/24 20:53	VOA7_469580	X061519.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/15/24 20:53	VOA7_469580	X061519.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/15/24 20:53	VOA7_469580	X061519.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/15/24 20:53	VOA7_469580	X061519.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	06/15/24 20:53	VOA7_469580	X061519.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/15/24 20:53	VOA7_469580	X061519.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	06/15/24 20:53	VOA7_469580	X061519.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	06/15/24 20:53	VOA7_469580	X061519.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	06/15/24 20:53	VOA7_469580	X061519.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/15/24 20:53	VOA7_469580	X061519.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/15/24 20:53	VOA7_469580	X061519.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	06/15/24 20:53	VOA7_469580	X061519.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/15/24 20:53	VOA7_469580	X061519.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	06/15/24 20:53	VOA7_469580	X061519.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/15/24 20:53	VOA7_469580	X061519.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	06/15/24 20:53	VOA7_469580	X061519.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	06/15/24 20:53	VOA7_469580	X061519.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/15/24 20:53	VOA7_469580	X061519.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/15/24 20:53	VOA7_469580	X061519.D
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/15/24 20:53	VOA7_469580	X061519.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/15/24 20:53	VOA7_469580	X061519.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	06/15/24 20:53	VOA7_469580	X061519.D

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Form 2

System Monitoring Compound Recovery

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24060293

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 18/24

07/15/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 18/24

Workorder **HS24060293**

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA7-469580

MW5_060524

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24060293-01	Groundwater	06/16/24 00:19	%REC	1
Instrument ID	VOA7				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	X061528.D	58	50	117		81-118
4-Bromofluorobenzene	X061528.D	54	50	109		85-114
Dibromofluoromethane	X061528.D	59	50	117		80-119
Toluene-d8	X061528.D	55	50	111		89-112

18CPTMW08SW_060524

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24060293-03	Groundwater	06/16/24 00:41	%REC	1
Instrument ID	VOA7				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	X061529.D	59	50	117		81-118
4-Bromofluorobenzene	X061529.D	54	50	108		85-114
Dibromofluoromethane	X061529.D	59	50	118		80-119
Toluene-d8	X061529.D	56	50	112		89-112

18CPTMW03SW_060524

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24060293-04	Groundwater	06/16/24 01:04	%REC	1
Instrument ID	VOA7				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	X061530.D	58	50	115		81-118
4-Bromofluorobenzene	X061530.D	55	50	111		85-114
Dibromofluoromethane	X061530.D	58	50	117		80-119
Toluene-d8	X061530.D	59	50	118		89-112

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 18/24

Workorder HS24060293

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA7-469580

18CPTMW022DW_060524

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24060293-05	Groundwater	06/16/24 01:27	%REC	1
Instrument ID	VOA7				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	X061531.D	58	50	116		81-118
4-Bromofluorobenzene	X061531.D	54	50	108		85-114
Dibromofluoromethane	X061531.D	59	50	118		80-119
Toluene-d8	X061531.D	56	50	112		89-112

18CPTMW022R_060524

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24060293-06	Groundwater	06/16/24 01:50	%REC	1
Instrument ID	VOA7				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	X061532.D	62	50	124		81-118
4-Bromofluorobenzene	X061532.D	58	50	115		85-114
Dibromofluoromethane	X061532.D	62	50	124		80-119
Toluene-d8	X061532.D	61	50	121		89-112

CG-052424-73

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24060293-07	Water	06/15/24 20:53	%REC	1
Instrument ID	VOA7				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	X061519.D	59	50	117		81-118
4-Bromofluorobenzene	X061519.D	53	50	106		85-114
Dibromofluoromethane	X061519.D	59	50	117		80-119
Toluene-d8	X061519.D	56	50	112		89-112

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 18/24

Workorder HS24060293

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA7-469580

BatchQC

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24060434-01MS	Aqueous	06/15/24 22:01	%REC	250
Instrument ID	VOA7				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	X061522.D	14540	12500	116		81-118
4-Bromofluorobenzene	X061522.D	13530	12500	108		85-114
Dibromofluoromethane	X061522.D	14400	12500	115		80-119
Toluene-d8	X061522.D	15030	12500	120		89-112

BatchQC

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24060434-01MSD	Aqueous	06/15/24 22:24	%REC	250
Instrument ID	VOA7				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	X061523.D	14900	12500	119		81-118
4-Bromofluorobenzene	X061523.D	14030	12500	112		85-114
Dibromofluoromethane	X061523.D	15000	12500	120		80-119
Toluene-d8	X061523.D	15420	12500	123		89-112

VBLKW-240615

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VBLKW-240615	Aqueous	06/15/24 20:07	%REC	1
Instrument ID	VOA7				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	X061517.D	57.75	50	116		81-118
4-Bromofluorobenzene	X061517.D	54.97	50	110		85-114
Dibromofluoromethane	X061517.D	57.43	50	115		80-119
Toluene-d8	X061517.D	55.86	50	112		89-112

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 18/24

Workorder HS24060293

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA7-469580

VLCSDW-240615

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VLCSDW-240615	Aqueous	06/15/24 19:21	%REC	1
Instrument ID	VOA7				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	X061515.D	51.37	50	103		81-118
4-Bromofluorobenzene	X061515.D	51.88	50	104		85-114
Dibromofluoromethane	X061515.D	51.09	50	102		80-119
Toluene-d8	X061515.D	52.49	50	105		89-112

VLCSW-240615

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VLCSW-240615	Aqueous	06/15/24 18:58	%REC	1
Instrument ID	VOA7				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	X061514.D	47.94	50	95.9		81-118
4-Bromofluorobenzene	X061514.D	51.19	50	102		85-114
Dibromofluoromethane	X061514.D	48.36	50	96.7		80-119
Toluene-d8	X061514.D	52.34	50	105		89-112

VSTD50

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VSTD50	Aqueous	06/15/24 18:35	%REC	1
Instrument ID	VOA7				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	X061513A.D	46.52	50	93.0		80-120
4-Bromofluorobenzene	X061513A.D	48.95	50	97.9		80-120
Dibromofluoromethane	X061513A.D	48.14	50	96.3		80-120
Toluene-d8	X061513A.D	48.75	50	97.5		80-120

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Form 3A

Matrix Spike/Spike Duplicate Recovery

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24060293

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 18/24

07/15/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
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Form 3A - Matrix Spike/Spike Duplicate Recovery

Client: Bhate Environmental Associates, Inc.

Project: LHAAP Site 18/24

Workorder: HS24060293

Volatiles by EPA Volatiles Organics by Method 8260C

SAMPLENUM: HS24060434-01MS

BatchQC (HS24060434-01)				HS24060434-01MS				HS24060434-01MSD						
Spike Matrix: Aqueous	Result Units: ug/L			Run Date: 06/15/24				Run Date: 06/15/24						
Instrument ID: VOA7				Run Time: 22:01				Run Time: 22:24						
				Data File: X061522.D				Data File: X061523.D						
Analyte	%R Limits	DF	Sample Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
1,1,1,2-Tetrachloroethane	78-124	250	0	4012.99	5000	80		3957.07	5000	79		20	1.4	
1,1,1-Trichloroethane	74-131	250	0	4100.42	5000	82		3888.30	5000	78		20	5.31	
1,1,2,2-Tetrachloroethane	71-121	250	0	3919.51	5000	78		3816.61	5000	76		20	2.66	
1,1,2-Trichloroethane	80-119	250	0	3999.42	5000	80		4031.15	5000	81		20	0.79	
1,1-Dichloroethane	77-125	250	0	3950.73	5000	79		3822.32	5000	76		20	3.3	
1,1-Dichloroethene	71-131	250	177.7	4371.39	5000	84		4116.94	5000	79		20	6	
1,1-Dichloropropene	78-125	250	0	4138.78	5000	83		3953.81	5000	79		20	4.57	
1,2,3-Trichlorobenzene	69-129	250	0	3281.71	5000	66		3295.46	5000	66		20	0.418	
1,2,3-Trichloropropane	73-122	250	0	3813.36	5000	76		3923.31	5000	78		20	2.84	
1,2,4-Trichlorobenzene	69-130	250	0	3605.30	5000	72		3601.54	5000	72		20	0.104	
1,2,4-Trimethylbenzene	76-124	250	0	4072.36	5000	81		3868.66	5000	77		20	5.13	
1,2-Dibromo-3-chloropropane	62-128	250	0	3449.41	5000	69		3430.62	5000	69		20	0.546	
1,2-Dibromoethane	77-121	250	0	3831.31	5000	77		3917.70	5000	78		20	2.23	
1,2-Dichlorobenzene	80-119	250	0	3819.84	5000	76		3828.08	5000	77		20	0.216	
1,2-Dichloroethane	73-128	250	0	3950.39	5000	79		3967.19	5000	79		20	0.424	
1,2-Dichloropropane	78-122	250	0	4041.78	5000	81		3898.63	5000	78		20	3.61	
1,3,5-Trimethylbenzene	75-124	250	0	4082.55	5000	82		3888.04	5000	78		20	4.88	
1,3-Dichlorobenzene	80-119	250	0	3979.14	5000	80		3832.15	5000	77		20	3.76	
1,3-Dichloropropane	80-119	250	0	4010.97	5000	80		3888.18	5000	78		20	3.11	
1,4-Dichlorobenzene	79-118	250	0	3887.84	5000	78		3834.32	5000	77		20	1.39	
2,2-Dichloropropane	60-139	250	0	3710.55	5000	74		3585.79	5000	72		20	3.42	
2-Butanone	56-143	250	0	7968.41	10000	80		8225.66	10000	82		20	3.18	
2-Chlorotoluene	79-122	250	0	3992.64	5000	80		3909.77	5000	78		20	2.1	
2-Hexanone	57-139	250	0	7844.60	10000	78		7162.34	10000	72		20	9.09	
4-Chlorotoluene	78-122	250	0	3998.36	5000	80		3842.49	5000	77		20	3.98	
4-Isopropyltoluene	77-127	250	0	4030.99	5000	81		3955.87	5000	79		20	1.88	
4-Methyl-2-pentanone	67-130	250	0	8142.91	10000	81		7964.87	10000	80		20	2.21	
Acetone	39-160	250	0	8007.37	10000	80		9125.24	10000	91		20	13	
Benzene	79-120	250	0	4140.35	5000	83		3956.58	5000	79		20	4.54	
Bromobenzene	80-120	250	0	3977.27	5000	80		3942.00	5000	79		20	0.891	
Bromochloromethane	78-123	250	0	3947.86	5000	79		4000.64	5000	80		20	1.33	
Bromodichloromethane	79-125	250	0	3562.48	5000	71		3479.65	5000	70		20	2.35	

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 18/24

Workorder HS24060293

Volatiles by EPA Volatiles Organics by Method 8260C

SAMPLENUM HS24060434-01MS

BatchQC (HS24060434-01)				HS24060434-01MS				HS24060434-01MSD						
Spike Matrix Aqueous	Result Units ug/L			Run Date 06/15/24				Run Date 06/15/24						
Instrument ID VOA7				Run Time 22:01				Run Time 22:24						
				Data File X061522.D				Data File X061523.D						
Analyte	%R Limits	DF	Sample Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
Bromoform	66-130	250	0	3645.92	5000	73		3667.15	5000	73		20	0.581	
Bromomethane	53-141	250	0	4329.60	5000	87		4027.71	5000	81		20	7.22	
Carbon disulfide	64-133	250	0	8312.10	10000	83		8042.97	10000	80		20	3.29	
Carbon tetrachloride	72-136	250	0	4009.20	5000	80		3898.42	5000	78		20	2.8	
Chlorobenzene	82-118	250	0	4010.16	5000	80		3941.12	5000	79		20	1.74	
Chloroethane	60-138	250	0	4364.89	5000	87		4136.14	5000	83		20	5.38	
Chloroform	79-124	250	0	4116.42	5000	82		3915.98	5000	78		20	4.99	
Chloromethane	50-139	250	0	4281.54	5000	86		4018.63	5000	80		20	6.34	
cis-1,2-Dichloroethene	78-123	250	20600	24022.2	5000	68		23651.0	5000	61		20	1.56	
cis-1,3-Dichloropropene	75-124	250	0	3806.47	5000	76		3685.48	5000	74		20	3.23	
Dibromochloromethane	74-126	250	0	3633.18	5000	73		3535.17	5000	71		20	2.73	
Dibromomethane	79-123	250	0	3906.30	5000	78		3948.28	5000	79		20	1.07	
Dichlorodifluoromethane	32-152	250	0	4195.21	5000	84		4081.14	5000	82		20	2.76	
Ethylbenzene	79-121	250	0	4115.79	5000	82		4046.22	5000	81		20	1.7	
Hexachlorobutadiene	66-134	250	0	3891.66	5000	78		3777.75	5000	76		20	2.97	
Isopropylbenzene	72-131	250	0	4132.10	5000	83		4029.40	5000	81		20	2.52	
m,p-Xylene	80-121	250	0	8355.78	10000	84		7765.99	10000	78		20	7.32	
Methylene chloride	74-124	250	0	4223.18	5000	84		4242.90	5000	85		20	0.466	
Naphthalene	61-128	250	0	3239.56	5000	65		3351.21	5000	67		20	3.39	
n-Butylbenzene	75-128	250	0	3995.62	5000	80		3805.72	5000	76		20	4.87	
n-Propylbenzene	76-126	250	0	4080.84	5000	82		3943.63	5000	79		20	3.42	
o-Xylene	78-122	250	0	4075.53	5000	82		3938.16	5000	79		20	3.43	
sec-Butylbenzene	77-126	250	0	4104.66	5000	82		3970.37	5000	79		20	3.33	
Styrene	78-123	250	0	4060.20	5000	81		3880.88	5000	78		20	4.52	
tert-Butylbenzene	78-124	250	0	4081.31	5000	82		3927.00	5000	78		20	3.85	
Tetrachloroethene	74-129	250	0	4156.06	5000	83		3905.67	5000	78		20	6.21	
Toluene	80-121	250	0	4143.80	5000	83		3997.71	5000	80		20	3.59	
trans-1,2-Dichloroethene	75-124	250	0	4184.18	5000	84		4025.69	5000	80		20	3.86	
trans-1,3-Dichloropropene	73-127	250	0	3806.47	5000	76		3685.48	5000	74		20	3.23	
Trichloroethene	79-123	250	4887	8907.46	5000	80		8672.86	5000	76		20	2.67	
Trichlorofluoromethane	65-141	250	0	4147.56	5000	83		4091.44	5000	82		20	1.36	
Vinyl chloride	58-137	250	0	4361.74	5000	87		4145.94	5000	83		20	5.07	

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client	Bhate Environmental Associates, Inc.	Workorder	HS24060293
Project	LHAAP Site 18/24		

Volatiles by EPA Volatiles Organics by Method 8260C

SAMPLENUM HS24060434-01MS

BatchQC (HS24060434-01)				HS24060434-01MS		HS24060434-01MSD		
Spike Matrix	Aqueous	Result Units	ug/L	Run Date	06/15/24	Run Date	06/15/24	
Instrument ID	VOA7			Run Time	22:01	Run Time	22:24	
				Data File	X061522.D	Data File	X061523.D	

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits OL - Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

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Form 3B

Laboratory Control Sample Recovery

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24060293

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 18/24

07/15/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 18/24

Workorder HS24060293

Volatiles by EPA Volatiles Organics by Method 8260C

SAMPLENUM VLCSW-240615

VOA7_469580			VLCSW-240615			VLCSDW-240615					
Spike Matrix Aqueous	Result Units ug/L		Run Date 06/15/24 Run Time 18:58			Run Date 06/15/24 Run Time 19:21					
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q	LCSD Result	%R	Q	RPD Limit	RPD	Q
1,1,1,2-Tetrachloroethane	78-124	20	19.73	99		19.68	98		20	0.238	
1,1,1-Trichloroethane	74-131	20	18.76	94		18.95	95		20	1.01	
1,1,2,2-Tetrachloroethane	71-121	20	20.87	104		21.5	108		20	3.01	
1,1,2-Trichloroethane	80-119	20	20.29	101		21.04	105		20	3.66	
1,1-Dichloroethane	77-125	20	17.88	89		18.17	91		20	1.58	
1,1-Dichloroethene	71-131	20	19.31	96		19.84	99		20	2.72	
1,1-Dichloropropene	78-125	20	19.21	96		19.21	96		20	0.0066	
1,2,3-Trichlorobenzene	69-129	20	19.99	100		19.73	99		20	1.28	
1,2,3-Trichloropropane	73-122	20	20.04	100		21.16	106		20	5.44	
1,2,4-Trichlorobenzene	69-130	20	20.66	103		20.41	102		20	1.23	
1,2,4-Trimethylbenzene	76-124	20	20.66	103		20.91	105		20	1.23	
1,2-Dibromo-3-chloropropane	62-128	20	19.2	96		19.19	96		20	0.0378	
1,2-Dibromoethane	77-121	20	19.46	97		20.21	101		20	3.76	
1,2-Dichlorobenzene	80-119	20	20.37	102		20.92	105		20	2.65	
1,2-Dichloroethane	73-128	20	18.82	94		19.44	97		20	3.29	
1,2-Dichloropropane	78-122	20	19.16	96		19.35	97		20	0.973	
1,3,5-Trimethylbenzene	75-124	20	20.34	102		20.81	104		20	2.29	
1,3-Dichlorobenzene	80-119	20	20.76	104		20.94	105		20	0.843	
1,3-Dichloropropane	80-119	20	19.99	100		20.24	101		20	1.25	
1,4-Dichlorobenzene	79-118	20	20.53	103		21.08	105		20	2.62	
2,2-Dichloropropane	60-139	20	17.51	88		17.85	89		20	1.91	
2-Butanone	56-143	40	39.81	100		42.36	106		20	6.21	
2-Chlorotoluene	79-122	20	20.65	103		20.52	103		20	0.61	
2-Hexanone	57-139	40	39.8	100		40.83	102		20	2.56	
4-Chlorotoluene	78-122	20	20.56	103		20.77	104		20	1.05	
4-Isopropyltoluene	77-127	20	20.35	102		20.55	103		20	1	
4-Methyl-2-pentanone	67-130	40	41.31	103		43.44	109		20	5.02	
Acetone	39-160	40	36.59	92		42.57	106		20	15.1	
Benzene	79-120	20	19.6	98		19.54	98		20	0.264	
Bromobenzene	80-120	20	20.76	104		21.06	105		20	1.43	
Bromochloromethane	78-123	20	19.66	98		20.01	100		20	1.77	
Bromodichloromethane	79-125	20	17.22	86		17.56	88		20	1.99	
Bromoform	66-130	20	18.5	92		18.89	94		20	2.08	
Bromomethane	53-141	20	19.47	97		20.49	102		20	5.11	
Carbon disulfide	64-133	40	38.03	95		38.58	96		20	1.43	

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 18/24

Workorder HS24060293

Volatiles by EPA Volatiles Organics by Method 8260C

SAMPLENUM VLCSW-240615

VOA7_469580			VLCSW-240615			VLCSDW-240615					
Spike Matrix Aqueous	Result Units ug/L		Run Date 06/15/24 Run Time 18:58			Run Date 06/15/24 Run Time 19:21					
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q	LCSD Result	%R	Q	RPD Limit	RPD	Q
Carbon tetrachloride	72-136	20	18.26	91		18.21	91		20	0.225	
Chlorobenzene	82-118	20	19.92	100		20.27	101		20	1.73	
Chloroethane	60-138	20	19.16	96		19.8	99		20	3.33	
Chloroform	79-124	20	18.89	94		19.74	99		20	4.42	
Chloromethane	50-139	20	19.13	96		19.1	96		20	0.194	
cis-1,2-Dichloroethene	78-123	20	18.97	95		19.84	99		20	4.47	
cis-1,3-Dichloropropene	75-124	20	18.21	91		18.51	92		20	1.61	
Dibromochloromethane	74-126	20	18.36	92		18.86	94		20	2.66	
Dibromomethane	79-123	20	19.14	96		19.32	97		20	0.929	
Dichlorodifluoromethane	32-152	20	18.28	91		18.85	94		20	3.1	
Ethylbenzene	79-121	20	19.84	99		20.3	101		20	2.28	
Hexachlorobutadiene	66-134	20	21.04	105		20.86	104		20	0.866	
Isopropylbenzene	72-131	20	20.03	100		20.25	101		20	1.11	
m,p-Xylene	80-121	40	40.57	101		40.85	102		20	0.689	
Methylene chloride	74-124	20	18.79	94		20.23	101		20	7.42	
Naphthalene	61-128	20	19.72	99		19.76	99		20	0.212	
n-Butylbenzene	75-128	20	20.31	102		20.4	102		20	0.441	
n-Propylbenzene	76-126	20	20.35	102		20.38	102		20	0.16	
o-Xylene	78-122	20	20.35	102		20.49	102		20	0.693	
sec-Butylbenzene	77-126	20	20.95	105		21.1	105		20	0.719	
Styrene	78-123	20	20.27	101		20.64	103		20	1.81	
tert-Butylbenzene	78-124	20	20.5	102		20.98	105		20	2.35	
Tetrachloroethene	74-129	20	19.77	99		20.07	100		20	1.53	
Toluene	80-121	20	20.22	101		20.15	101		20	0.337	
trans-1,2-Dichloroethene	75-124	20	17.61	88		19.34	97		20	9.35	
trans-1,3-Dichloropropene	73-127	20	18.21	91		18.51	92		20	1.61	
Trichloroethene	79-123	20	19.02	95		19.43	97		20	2.15	
Trichlorofluoromethane	65-141	20	18.12	91		19.44	97		20	7.04	
Vinyl chloride	58-137	20	18.79	94		19.22	96		20	2.25	

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Form 4

Method Blank Summary

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24060293

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 18/24

07/15/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 4 - Method Blank Summary

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
Workorder: HS24060293

Volatiles by EPA Volatiles Organics by Method 8260C

METHOD BLANK	Matrix	Analysis Date	Analysis Batch	Inst ID
VBLKW-240615	Aqueous	06/15/24 20:07	R469580	VOA7

Client Sample ID	Lab Sample ID	Type	Analysis Date	Analysis Batch	Inst ID	FileID
VLCSW-240615	VLCSW-240615	LCS	06/15/24 18:58	R469580	VOA7	X061514.D
VLCSDW-240615	VLCSDW-240615	LCSD	06/15/24 19:21	R469580	VOA7	X061515.D
CG-052424-73	HS24060293-07	SAMP	06/15/24 20:53	R469580	VOA7	X061519.D
BatchQC	HS24060434-01MS	MS	06/15/24 22:01	R469580	VOA7	X061522.D
BatchQC	HS24060434-01MSD	MSD	06/15/24 22:24	R469580	VOA7	X061523.D
MW5_060524	HS24060293-01	SAMP	06/16/24 00:19	R469580	VOA7	X061528.D
18CPTMW08SW_060524	HS24060293-03	SAMP	06/16/24 00:41	R469580	VOA7	X061529.D
18CPTMW03SW_060524	HS24060293-04	SAMP	06/16/24 01:04	R469580	VOA7	X061530.D
18CPTMW022DW_060524	HS24060293-05	SAMP	06/16/24 01:27	R469580	VOA7	X061531.D
18CPTMW022R_060524	HS24060293-06	SAMP	06/16/24 01:50	R469580	VOA7	X061532.D

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Form 5

Instrument Performance Check

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24060293

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 18/24

07/15/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

ALS Houston, US Date: 15-Jul-24

Form 5 - Instrument Performance Check
BROMOFLUOROBENZENE (BFB)

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060293 **Run ID:** VOA7_469569

Lab File ID: X061501.D
Instrument ID: VOA7
Injection Date: 15-Jun-2024
Injection Time: 13:38

m/e	Ion Abundance Criterion	% Relative Abundance
50	15.0 - 40.0% of mass 95	21.2
50	15.0 - 40.0% of mass 95	19.3
75	30.0 - 60.0% of mass 95	51.3
75	30.0 - 60.0% of mass 95	50.1
95	Base peak, 100% relative abundance	100.0
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.9
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.0 (0.0) 1
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	greater than 50.0% of mass 95	75.2 (75.2) 1
174	greater than 50.0% of mass 95	77.8 (77.8) 1
175	5.0 - 9.0% of mass 174	6.7 (8.8) 1
175	5.0 - 9.0% of mass 174	6.9 (8.9) 1
176	> 95% but < 101% of mass 174	73.5 (97.7) 1
176	> 95% but < 101% of mass 174	74.9 (96.3) 1
177	5.0 - 9.0% of mass 176	4.3 (5.9) 2
177	5.0 - 9.0% of mass 176	5.3 (7.1) 2

1-Value is % mass 174 2-Value is % mass 176

This check applies to following Samples, MS, MSD, Blanks and Standards

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed
VSTD00.5	VSTD00.5	X061502.D	15-Jun-2024 14:01
VSTD001	VSTD001	X061503.D	15-Jun-2024 14:24
VSTD002	VSTD002	X061504.D	15-Jun-2024 14:46
VSTD005	VSTD005	X061505.D	15-Jun-2024 15:09
VSTD010	VSTD010	X061506.D	15-Jun-2024 15:32
VSTD020	VSTD020	X061507.D	15-Jun-2024 15:55
VSTD050	VSTD050	X061508.D	15-Jun-2024 16:18
VSTD100	VSTD100	X061509.D	15-Jun-2024 16:41
VSTD200	VSTD200	X061510.D	15-Jun-2024 17:04
VSTD50	VSTD50	X061513A.D	15-Jun-2024 18:35

ALS Houston, US Date: 15-Jul-24

Form 5 - Instrument Performance Check
BROMOFLUOROBENZENE (BFB)

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060293 **Run ID:** VOA7_469580

Lab File ID: X061512.D
Instrument ID: VOA7
Injection Date: 15-Jun-2024
Injection Time: 17:50

m/e	Ion Abundance Criterion	% Relative Abundance
50	15.0 - 40.0% of mass 95	19.3
75	30.0 - 60.0% of mass 95	50.1
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	greater than 50.0% of mass 95	77.8 (77.8) 1
175	5.0 - 9.0% of mass 174	6.9 (8.9) 1
176	> 95% but < 101% of mass 174	74.9 (96.3) 1
177	5.0 - 9.0% of mass 176	5.3 (7.1) 2

1-Value is % mass 174 2-Value is % mass 176

This check applies to following Samples, MS, MSD, Blanks and Standards

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed
VSTD50	VSTD50	X061513A.D	15-Jun-2024 18:35
VLCSW-240615	VLCSW-240615	X061514.D	15-Jun-2024 18:58
VLCSDW-240615	VLCSDW-240615	X061515.D	15-Jun-2024 19:21
VBLKW-240615	VBLKW-240615	X061517.D	15-Jun-2024 20:07
CG-052424-73	HS24060293-07	X061519.D	15-Jun-2024 20:53
ZZZZZZMS	HS24060434-01MS	X061522.D	15-Jun-2024 22:01
ZZZZZZMSD	HS24060434-01MSD	X061523.D	15-Jun-2024 22:24
MW5_060524	HS24060293-01	X061528.D	16-Jun-2024 00:19
18CPTMW08SW_060524	HS24060293-03	X061529.D	16-Jun-2024 00:41
18CPTMW03SW_060524	HS24060293-04	X061530.D	16-Jun-2024 01:04
18CPTMW022DW_060524	HS24060293-05	X061531.D	16-Jun-2024 01:27
18CPTMW022R_060524	HS24060293-06	X061532.D	16-Jun-2024 01:50
VSTD50	VSTD50	X061541.D	16-Jun-2024 05:16

Report Date : 15-Jul-2024 09:12 Page 1

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INITIAL CALIBRATION DATA

Start Cal Date : 12-JUN-2024 11:43
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Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\8260W.m
Last Edit : 15-Jul-2024 08:40 s.zaid

Calibration File Names:
Level 1: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061502.D
Level 2: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061503.D
Level 3: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061504.D
Level 4: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061505.D
Level 5: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061506.D
Level 6: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061507.D
Level 7: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061508.D
Level 8: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061509.D
Level 9: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061510.D

Compound	0.5000000 Level 1 / 50.0000 Level 7	1.0000 Level 2 / 100.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
157 2-Methylnaphthalene	0.69108	0.80544	0.86280	0.71767	0.61663	0.71651						
	0.82585	0.83820	0.95150				AVRG		0.78063		13.19769	
2 Dichlorodifluoromethane	617	945	4360	7225	14638	28839						
	67807	134254	292167				LINR	-0.00709	0.52639		0.99949	
182 Isobutylene	+++++	+++++	144	901	1722	4122						
	10572	22250	46322				LINR	0.02287	0.08485		0.99993	<-

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Compound	0.5000000 Level 1 / 50.0000 Level 7	1.0000 Level 2 / 100.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
177 Dimethyl ether	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
3 Chloromethane	1173 / 99995	2511 / 196571	6755 / 419418	11605	22083	41944	LINR	-0.01963	0.75600		0.99975	
4 Propionitrile	1567 / 88867	1953 / 178969	5593 / 364385	8704	18049	35353	LINR	-0.19627	0.06630		0.99980	
5 Vinyl Chloride	920 / 89994	1452 / 178644	5443 / 390540	9844	19207	36777	LINR	-0.00273	0.70364		0.99949	
178 Ethylene oxide	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
6 Bromomethane	676 / 49751	1490 / 98215	3738 / 205045	5926	10679	20870	LINR	-0.02778	0.37035		0.99986	
7 Chloroethane	555 / 55213	994 / 108971	3631 / 235748	6277	11324	22690	LINR	-0.00831	0.42505		0.99963	

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Compound	0.5000000 Level 1 / 50.0000 Level 7	1.0000 Level 2 / 100.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
8 Trichlorofluoromethane	866 118069	1387 232452	6842 502365	13237	24641	48951	 LINR	 -0.00721	 0.90654		 0.99963	
9 Acrolein	+++++ 0.01490	+++++ 0.01610	+++++ 0.01244	0.01286	0.01449	0.01373	 AVRG		 0.01409		 9.63734	<-
10 Acetone	1666 46665	2175 87964	4581 183152	6604	10572	20213	 LINR	 -0.11951	 0.16421		 0.99960	
11 1,1-Dichloroethene	512 66065	872 130927	3570 285852	6851	13278	26084	 LINR	 0.00313	 0.51609		 0.99957	
12 Isobutyl Alcohol	3890 215753	5734 430883	13006 902069	23318	45161	89796	 LINR	 -0.37263	 0.08160		 0.99993	
13 Acetonitrile	1925 98067	2072 201548	4734 422464	10962	20967	42483	 LINR	 -0.12656	 0.07648		 0.99989	
14 Allyl Chloride	4145 208497	4733 421791	12586 869165	21819	42736	86958	 LINR	 -0.01918	 1.57717		 0.99990	

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Compound	0.5000000 Level 1 / 50.0000 Level 7	1.0000 Level 2 / 100.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
15 Iodomethane	618 160800	1727 331334	6420 752080	13007	27400	58277	 LINR	0.07694	0.67992		0.99854
16 Acrylonitrile	729 46177	891 92283	2570 191487	3482	8583	19099	 LINR	-0.01852	0.17413		0.99980
17 Methylene Chloride	2072 78686	3218 150347	5964 316697	9761	16881	32051	 LINR	-0.03625	0.57005		0.99977
18 Methyl tert-butyl ether	3223 173468	3682 369312	9601 789645	18018	35843	71378	 LINR	0.00577	1.42889		0.99969
19 Carbon Disulfide	4375 403665	7853 802720	24820 1741724	45001	83855	166994	 LINR	-0.01155	1.56991		0.99961
20 trans-1,2-Dichloroethene	436 69367	1186 136803	3881 294156	7190	14138	28094	 LINR	-0.00539	0.53158		0.99975
21 Vinyl Acetate	1101 77286	2448 142907	5183 303449	9154	15481	31984	 LINR	-0.06747	0.27342		0.99935

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Compound	0.5000000 Level 1 / 50.0000 Level 7	1.0000 Level 2 / 100.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
22 1,1-Dichloroethane	1.21092	1.14931	1.45623	1.18246	1.16110	1.13194					
	1.12152	1.07050	1.09514				AVRG		1.17546		9.66710
23 Chloroprene	1169	1900	6709	12691	24627	48530					
	119116	237619	517186				LINR	-0.00067	0.93307		0.99959
24 2-Butanone	1922	2851	5001	8477	13788	26703					
	61852	120765	252867				LINR	-0.08560	0.22722		0.99984
25 Methacrylonitrile	+++++	0.66524	0.76365	0.89784	0.78089	0.88953					
	0.82772	0.95634	0.88542				AVRG		0.83333		11.20739
26 2,2-Dichloropropane	1.03839	0.82157	1.33791	1.01510	0.91934	0.98863					
	0.96276	0.93500	0.96127				AVRG		0.99777		14.23657
27 cis-1,2-Dichloroethene	581	1560	4389	8496	15946	30961					
	78589	153510	326517				LINR	-0.01063	0.59067		0.99983
28 Chloroform	1624	3399	8279	14700	28858	56287					
	140096	275001	578887				LINR	-0.01599	1.04769		0.99988

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Compound	0.5000000 Level 1 / 50.0000 Level 7	1.0000 Level 2 / 100.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
29 Bromochloromethane	252 38434	808 74665	2129 159282	3897	7632	14921	LINR	-0.00826	0.28823		0.99980
31 1,1,1-Trichloroethane	1107 121911	1878 240720	6669 518715	11751	24009	47625	LINR	-0.00013	0.93827		0.99976
32 1,1-Dichloropropene	1117 104921	1749 204839	6316 449030	11612	20893	42007	LINR	0.00249	0.49163		0.99902
33 1,2-Dichloroethane	1258 119958	2750 232210	7132 487787	12357	23794	44715	LINR	-0.00873	0.53702		0.99976
34 Carbon Tetrachloride	1128 103211	1790 207646	5848 461014	10309	19473	39998	LINR	0.01847	0.50529		0.99865
37 Benzene	3137 286859	6318 566674	17570 1202917	31340	60291	118343	LINR	-0.00969	1.32027		0.99966
38 Trichloroethene	802 74816	1475 144899	4355 313152	8145	14480	29895	LINR	-0.00289	0.34340		0.99935

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Compound	0.5000000 Level 1 / 50.0000 Level 7	1.0000 Level 2 / 100.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
39 Bromodichloromethane	0.59634	0.58020	0.74995	0.54640	0.51023	0.51364					
	0.50857	0.49171	0.51286				AVRG		0.55666		14.49055
40 Methyl Methacrylate	+++++	1742	4678	8143	15048	30778					
	67573	141838	284906				LINR	-0.03545	0.51678		0.99955
41 2-Chloroethylvinyl ether	758	1519	3297	5890	11392	23020					
	60694	122206	285285				QUAD	-0.03010	7.77780	-1.12122	0.99982
42 1,2-Dichloropropane	1024	1795	5229	8231	17398	33533					
	83636	162499	346536				LINR	-0.00851	0.38036		0.99958
43 2-Nitropropane	450	593	1657	2378	4212	9001					
	21914	45563	100260				LINR	0.00688	0.18055		0.99915
44 Dibromomethane	452	1021	2780	4876	9510	18203					
	47163	93384	199194				LINR	-0.00085	0.21891		0.99964
45 4-Methyl-2-Pentanone	2130	4091	9850	18025	32018	62229					
	154085	294844	630364				LINR	-0.03700	0.36732		0.99948

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Compound	0.5000000 Level 1 / 50.0000 Level 7	1.0000 Level 2 / 100.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
46 cis-1,3-Dichloropropene	1394 114066	2713 231041	6773 504454	12123	22745	45737	LINR	0.00852	0.55289		0.99909
49 Ethyl Methacrylate	+++++ 92940	2257 206010	5298 479491	8382	17396	34541	QUAD	0.00067	2.36615	-0.22787	0.99990
50 Toluene	3659 300469	6541 584385	18783 1248377	32403	62276	122540	LINR	-0.01263	1.45680		0.99958
51 trans-1,3-Dichloropropene	1394 114066	2713 231041	6773 504454	12123	22745	45737	LINR	0.00852	0.55289		0.99909
52 2-Hexanone	1458 107938	3084 205316	6816 418635	11468	21713	41660	LINR	-0.05968	0.24579		0.99941
53 1,1,2-Trichloroethane	636 58061	1325 111437	3483 232912	6253	11359	22410	LINR	-0.01715	0.27286		0.99963
54 1,3-Dichloropropane	1496 122388	3036 237393	7570 502687	13167	25023	49217	LINR	-0.01523	0.58729		0.99966

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Compound	0.5000000 Level 1 / 50.0000 Level 7	1.0000 Level 2 / 100.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
55 Dibromochloromethane	0.40306	0.43462	0.52948	0.39306	0.37329	0.38218					
	0.39770	0.37826	0.39417				AVRG		0.40954		11.81992
56 Tetrachloroethene	704	913	3466	6024	11042	23595					
	57283	110367	242940				LINR	-0.00157	0.28285		0.99901
57 1,2-Dibromoethane	715	1535	3930	6959	12804	24851					
	59797	116739	248060				LINR	-0.01826	0.28926		0.99963
58 1-Chlorohexane	+++++	3458	6865	9909	17306	32894					
	76561	141700	303981				LINR	-0.04695	0.32996		0.99908
59 Chlorobenzene	2223	4359	12490	22124	39917	80596					
	196413	383778	816634				LINR	-0.01347	0.95332		0.99964
60 1,1,1,2-Tetrachloroethane	736	1575	4146	7002	13676	26330					
	68615	135220	300759				LINR	0.00929	0.35011		0.99885
61 Ethylbenzene	957	1961	6293	11221	20636	41428					
	103348	195525	424071				LINR	-0.01060	0.49426		0.99920

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62 m,p-Xylenes	3068 254041	5521 496095	15967 1059701	27245	52278	102849	 LINR	 -0.02201	 0.61848		 0.99961	
63 o-Xylene	1283 124111	2749 238580	7810 509699	13725	24914	50923	 LINR	 -0.01490	 0.59475		 0.99949	
64 Styrene	2460 218355	4857 421929	13408 903128	23337	44716	88577	 LINR	 -0.01235	 1.05388		 0.99953	
65 cis-1,4-Dichloro-2-butene	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	 AVRG	 	 0.000e+000		 0.000e+000	<-
66 Bromoform	0.25273 0.25295	0.26607 0.23840	0.33208 0.25531	0.24812	0.23923	0.23922	 AVRG	 	 0.25823		 11.29023	
67 Isopropylbenzene	3442 317579	6133 614244	20031 1334335	33644	63249	129852	 LINR	 -0.00645	 1.55503		 0.99930	
68 1,1,2,2-Tetrachloroethane	1141 89714	2231 173120	5353 364431	9701	18424	34557	 LINR	 -0.01538	 0.82288		 0.99909	

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71 1,2,3-Trichloropropane	1285 100875	2623 194918	6201 415838	11078	20796	39172	LINR	-0.01202	0.93728		0.99882
72 trans-1,4-Dichloro-2-butene	151 21969	625 42273	1262 93967	2178	4519	8453	LINR	0.00346	0.10933		0.99882
73 n-Propylbenzene	4037 388200	7684 759621	23920 1657867	40578	76526	156297	LINR	0.00029	3.73284		0.99823
74 Bromobenzene	883 85404	1940 165119	5157 359110	8991	17462	33759	LINR	-0.00411	0.80841		0.99830
75 1,3,5-Trimethylbenzene	3399 275793	5830 543342	17230 1199205	29207	55087	111094	LINR	0.00420	2.69669		0.99786
76 2-Chlorotoluene	2704 238653	5439 465237	15070 995846	25653	48163	96301	LINR	-0.00944	2.24441		0.99876
77 4-Chlorotoluene	3264 282358	6290 546420	17334 1184483	30030	56243	112941	LINR	-0.00538	2.66710		0.99839

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Compound	0.5000000 Level 1 / 50.0000 Level 7	1.0000 Level 2 / 100.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
78 tert-Butylbenzene	2356 231832	4454 452739	13885 969754	24227	44107	93334	 LINR	 -0.00490	 2.18831		 0.99876	
79 1,2,4-Trimethylbenzene	3450 278876	5961 540224	16705 1174459	28869	54690	111249	 LINR	 -0.00278	 2.64501		 0.99832	
80 Pentachloroethane	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	 AVRG	 	 0.000e+000		 0.000e+000	<-
81 sec-Butylbenzene	3154 317082	5578 620159	18544 1357880	32307	61000	126981	 LINR	 0.00375	 3.05888		 0.99815	
82 p-Isopropyltoluene	2821 285951	5195 560605	17126 1222531	28883	55271	112629	 LINR	 0.00355	 2.75536		 0.99831	
83 1,3-Dichlorobenzene	1745 156769	3358 306521	9329 661530	16526	30823	61913	 LINR	 -0.00267	 1.49126		 0.99860	
84 1,4-Dichlorobenzene	1786 162202	3741 313580	9700 669697	17198	31726	63976	 LINR	 -0.00895	 1.51076		 0.99879	

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Last Edit : 15-Jul-2024 08:40 s.zaid

Compound	0.5000000 Level 1 / 50.0000 Level 7	1.0000 Level 2 / 100.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
85 bis(2-Chloro-isopropyl)ether	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
86 Benzyl Chloride	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
87 n-Butylbenzene	3261	4888	16170	26108	50748	106249						
	271859	528102	1137513				LINR	-0.00055	2.56778		0.99863	
88 1,2-Dichlorobenzene	1679	3305	8741	14740	29096	58851						
	152096	298497	632693				LINR	-0.00406	1.43049		0.99908	
89 1,2-Dibromo-3-Chloropropane	+++++	0.15700	0.19470	0.13353	0.13240	0.13638						
	0.14275	0.13916	0.14618				AVRG		0.14776		13.91271	<-
90 1,2,4-Trichlorobenzene	901	2045	5210	9039	16917	35263						
	97036	198441	425707				LINR	0.01636	0.96419		0.99890	
91 Hexachlorobutadiene	279	674	2304	4213	8542	17891						
	46780	94036	203423				LINR	0.01446	0.46021		0.99871	

ALS Laboratory Group

INITIAL CALIBRATION DATA

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End Cal Date : 15-JUN-2024 17:04
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\8260W.m
Last Edit : 15-Jul-2024 08:40 s.zaid

Compound	0.5000000 Level 1 / 50.0000 Level 7	1.0000 Level 2 / 100.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
92 Naphthalene	2.26780	2.34112	2.82925	2.01805	1.80400	1.93540						
	2.05350	1.94901	2.10538				AVRG		2.14483		14.24156	
93 1,2,3-Trichlorobenzene	0.75487	0.87177	1.02769	0.74847	0.65808	0.72434						
	0.74454	0.71673	0.78024				AVRG		0.78075		13.92919	
130 Ethyl Acetate	6119	10732	25930	44597	85403	170533						
	443002	897857	1931046				LINR	0.00284	3.49272		0.99978	
131 Methyl Acrylate	+++++	1547	4529	7951	15184	29836						
	70420	144382	294954				LINR	-0.02575	0.53484		0.99986	
132 n-Butanol	+++++	+++++	0.01372	0.01604	0.01587	0.01726						
	0.01565	0.01655	0.01637				AVRG		0.01592		6.93025	
133 Ethyl Acrylate	+++++	1.23195	1.55978	1.45553	1.37915	1.42992						
	1.40016	1.40699	1.39140				AVRG		1.40686		6.46621	
134 Cyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-

ALS Laboratory Group

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Method file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\8260W.m
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Compound	0.5000000 Level 1 / 50.0000 Level 7	1.0000 Level 2 / 100.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
135 1,4-Dioxane	203 10767	143 21568	722 43691	1050	2043	3941	LINR	-0.29422	0.00399		0.99964	
136 n-Hexane	529 85930	594 156768	4304 360049	7851	14466	31606	LINR	0.01459	0.64821		0.99806	
137 n-Pentane	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
138 Freon TF	380 66163	573 128005	3581 284404	6709	12911	26055	LINR	0.00598	0.51267		0.99918	
146 Methyl Acetate	+++++ 53208	346 102095	3471 219776	5521	12109	21764	LINR	-0.01879	0.39595		0.99951	
147 Methylcyclohexane	+++++ 100708	447 215181	1703 469723	9878	18627	39114	LINR	0.04053	0.51921		0.99903	
149 Isopropyl alcohol	+++++ 67928	1689 129745	4553 271337	7128	12916	28470	LINR	-0.60968	0.02451		0.99960	

ALS Laboratory Group

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Compound	0.5000000 Level 1 / 50.0000 Level 7	1.0000 Level 2 / 100.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
152 Amyl alcohol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
150 Allyl alcohol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
151 4-Methyl-2-pentanol	8638	10862	33216	52716	105868	205136						
	510749	1084199	2215844				LINR	-0.12697	0.13028		0.99994	
148 Tert-butyl alcohol	+++++	0.04214	0.05619	0.03626	0.03419	0.03518						
	0.03106	0.02963	0.03056				AVRG		0.03690		23.74233	<-
139 Diethyl ether	+++++	0.39287	0.45181	0.32867	0.29979	0.33019						
	0.36581	0.37488	0.37202				AVRG		0.36451		12.80147	
140 1,3-Butadiene	214	586	1902	3822	7850	16653						
	40631	81637	182119				LINR	0.01477	0.32843		0.99909	
141 Cyclohexane	+++++	3665	9369	14123	23825	46236						
	113099	222012	489133				LINR	-0.01317	0.87711		0.99918	

ALS Laboratory Group

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Compound	0.5000000 Level 1 / 50.0000 Level 7	1.0000 Level 2 / 100.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
142 Tetrahydrofuran	337 22991	607 45899	1504 105694	2220	4755	9492	LINR	0.02951	0.09474		0.99791	
143 1-Chlorobutane	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
144 Nitrobenzene	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
145 alpha-Methylstyrene	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
153 Tetraethyl lead	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
154 2,3-Dichlorobutane	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
155 2-Pentanone	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-

ALS Laboratory Group

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Compound	0.5000000 Level 1 / 50.0000 Level 7	1.0000 Level 2 / 100.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
156 Diisopropyl ether	+++++	1.90086	2.54491	1.91461	1.82740	1.92176						
	1.92423	1.93787	1.91206				AVRG		1.98546		11.51048	
158 Propylene oxide	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
159 Dichlorofluoromethane	+++++	1.01618	1.17097	1.09930	1.03342	1.05637						
	0.98956	0.99103	0.97287				AVRG		1.04121		6.38965	
160 Epichlorohydrin	109	318	1017	1794	3458	7172						
	18432	37467	79218				LINR	0.02686	0.02183		0.99978	
161 Butyl acrylate	+++++	3946	9733	16083	32123	64266						
	163025	352204	724805				LINR	0.00497	0.85336		0.99988	
162 3-Methyl-1-butanol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
163 Dicyclopentadiene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-

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Compound	0.5000000 Level 1 / 50.0000 Level 7	1.0000 Level 2 / 100.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
165 4-Vinyl-1-cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
166 1,2,3-Trimethylbenzene	+++++	3.15153	3.16499	2.55809	2.36739	2.46077						
	2.33670	2.23614	2.32686				AVRG		2.57531		14.45541	
167 Ethanol	213	357	850	1493	2526	4446						
	10513	20203	38509				QUAD	-0.54867	235	189	0.99994	
168 Butyl methacrylate	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
169 1-Propanol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
170 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	0.88987				AVRG		0.88987		0.000e+000	<-
171 1-Methylnaphthalene	0.72297	0.78609	0.84439	0.61085	0.55447	0.59882						
	0.67002	0.66198	0.76209				AVRG		0.69019		13.88641	

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Compound	0.5000000 Level 1 / 50.0000 Level 7	1.0000 Level 2 / 100.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
172 tert-Butyl formate	+++++ / 79724	2194 / 156003	5791 / 336149	9103	17506	35062	LINR	-0.04964	0.30190		0.99953	
173 3,3-Dimethyl-1-butanol	+++++ / 129798	3141 / 282604	7547 / 656537	9707	25111	46934	QUAD	0.07374	31.68724	-1.88388	0.99990	
174 tert-Amyl methyl ether	+++++ / 189636	4784 / 398312	11736 / 840188	20716	39115	78689	LINR	-0.00356	1.52123		0.99986	
175 tert-Butyl ethyl ether	+++++ / 1.62318	1.64885 / 1.66580	2.17735 / 1.68059	1.59764	1.57884	1.66685	AVRG		1.70489		11.39076	
176 tert-Amyl alcohol	+++++ / 79111	2244 / 151183	5269 / 319518	7972	15952	31609	LINR	-0.49670	0.02884		0.99972	
179 Hexachloroethane	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
180 2-Furfural	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-

ALS Laboratory Group

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Compound	0.5000000 Level 1 / 50.0000 Level 7	1.0000 Level 2 / 100.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
183 Isopropyl Acetate	2765 / 215753	4776 / 430883	13006 / 902069	23318	45161	89796	LINR	-0.01206	0.99185		0.99983	
184 n-Amyl acetate	2202 / 158246	4173 / 329197	9084 / 709851	16091	30467	61241	LINR	0.01101	0.83003		0.99952	
185 Acetaldehyde	418 / 41280	1282 / 82329	2195 / 175217	4414	10172	18371	LINR	-0.08582	0.07895		0.99962	<-
186 n-Butyl acetate	1945 / 122473	3629 / 239739	7800 / 496957	12732	24410	46894	LINR	-0.01749	0.58254		0.99979	
187 2-Etyhlhexyl Acrylate	66.00000 / 65136	362 / 157065	633 / 412027	1446	4941	14116	QUAD	0.06944	1.55327	-0.13541	0.99833	<-
188 Tetrahydrothiophene	1247 / 78695	1726 / 161935	4279 / 335016	7400	15450	30843	LINR	-0.00331	0.39376		0.99997	
189 sec-Butyl Ether	1596 / 70483	1835 / 137710	3772 / 269472	8224	15913	30749	LINR	-0.04968	0.31753		0.99872	

ALS Laboratory Group

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	Compound	0.5000000 Level 1 / 50.0000 Level 7	1.0000 Level 2 / 100.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	190 Isoprene	+++++	194	1099	2371	4929	7304						
		18184	39454	85840				LINR	0.00729	0.15477		0.99887	<-
	191 2-Chloropropene	+++++	0.94127	0.76365	0.89784	0.78089	0.88953						
		0.82772	0.95634	0.82417				AVRG		0.86018		8.34390	
M	94 1,2-Dichloroethylene (total)	1017	2746	8270	15686	30084	59055						
		147956	290313	620673				LINR	-0.01632	0.56112		0.99980	
M	95 Xylenes (total)	4351	8270	23777	40970	77192	153772						
		378152	734675	1569400				LINR	-0.02956	0.57376		0.99954	
$	30 Dibromofluoromethane	+++++	+++++	4411	7541	13555	28103						
		70864	136360	284861				QUAD	-0.02163	1.90596	0.01799	0.99979	
$	35 1,2-Dichloroethane-d4	+++++	+++++	6311	9398	18078	36252						
		95083	181002	373277				QUAD	-0.01637	1.40913	0.02647	0.99975	
$	48 Toluene-d8	+++++	+++++	16366	25974	50267	99784						
		255028	478121	1013765				QUAD	-0.02860	0.85276	-0.00140	0.99932	

ALS Laboratory Group

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Compound	0.5000000 Level 1 / 50.0000 Level 7	1.0000 Level 2 / 100.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
$ 69 4-Bromofluorobenzene	+++++ / 101258	5645 / 190458	7721 / 396379	12049	20656	39550	QUAD	-0.03913	2.14085	0.01500	0.99952

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Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

right solutions.
right partner.

Form 6I

Initial Calibration Verification (ICV)

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24060293

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 18/24

07/15/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 18/24

Workorder HS24060293

RunID X061513A.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix	LIQUID	**Fraction**	VOA
Lab Smp Id	VSTD50	**Client Smp ID**	VSTD050
Data Type	MS DATA	**SampleType**	METHSPIKE
File ID	X061513A.D	**Inj Date**	15-JUN-2024 1835

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
1,1,1,2-Tetrachloroethane	50.0	45.3	90.6	80-120	
1,1,1-Trichloroethane	50.0	44.2	88.4	80-120	
1,1,2,2-Tetrachloroethane	50.0	47.9	95.8	80-120	
Freon TF	50.0	44.2	88.3	80-120	
Methyl acetate	50.0	43.2	86.5	80-120	
Cyclohexane	50.0	43.8	87.6	80-120	
Methylcyclohexane	50.0	45.2	90.5	80-120	
Carbon Disulfide	100	89.1	89.1	80-120	
2-Hexanone	100	99.3	99.3	80-120	
1,1,2-Trichloroethane	50.0	48.8	97.5	80-120	
1,1-Dichloroethane	50.0	42.8	85.6	80-120	
1,1-Dichloroethene	50.0	46.4	92.8	80-120	
1,1-Dichloropropene	50.0	44.4	88.8	80-120	
1,2,3-Trichlorobenzene	50.0	44.3	88.6	80-120	
1,2,3-Trichloropropane	50.0	46.6	93.3	80-120	
1,2,4-Trichlorobenzene	50.0	45.1	90.3	80-120	
1,2,4-Trimethylbenzene	50.0	45.7	91.4	80-120	
1,2-Dibromo-3-Chloropropane	50.0	45.1	90.1	80-120	
1,2-Dibromoethane	50.0	46.0	92.1	80-120	
Acrolein	100	98.5	98.5	80-120	
Acrylonitrile	100	97.7	97.7	80-120	
1,2-Dichlorobenzene	50.0	46.2	92.5	80-120	
1,2-Dichloroethane	50.0	45.4	90.7	80-120	
1,2-Dichloropropane	50.0	45.9	91.7	80-120	
1,3,5-Trimethylbenzene	50.0	44.8	89.6	80-120	
1,3-Dichlorobenzene	50.0	46.3	92.6	80-120	
1,3-Dichloropropane	50.0	47.2	94.5	80-120	
1,4-Dichlorobenzene	50.0	46.4	92.9	80-120	
1-Chlorohexane	50.0	45.8	91.5	80-120	
2,2-Dichloropropane	50.0	41.8	83.6	80-120	
2-Butanone	100	95.6	95.6	80-120	
2-Chloroethylvinyl ether	100	101	101	80-120	
2-Chlorotoluene	50.0	46.0	91.9	80-120	
4-Chlorotoluene	50.0	45.6	91.2	80-120	

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 18/24

Workorder HS24060293

RunID X061513A.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix LIQUID
Lab Smp Id VSTD50
Data Type MS DATA
File ID X061513A.D

Fraction VOA
Client Smp ID VSTD050
SampleType METHSPIKE
Inj Date 15-JUN-2024 1835

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
p-Isopropyltoluene	50.0	45.3	90.6	80-120	
4-Methyl-2-Pentanone	100	96.9	96.9	80-120	
Acetone	100	96.7	96.8	80-120	
Acetonitrile	500	471	94.1	80-120	
Allyl Chloride	50.0	47.4	94.7	80-120	
Benzene	50.0	45.5	91.1	80-120	
Bromobenzene	50.0	46.2	92.4	80-120	
Bromochloromethane	50.0	47.1	94.1	80-120	
Bromodichloromethane	50.0	40.5	81.0	80-120	
Bromoform	50.0	45.1	90.1	80-120	
Bromomethane	50.0	46.2	92.4	80-120	
Carbon Tetrachloride	50.0	42.5	85.1	80-120	
Chlorobenzene	50.0	46.9	93.8	80-120	
Chloroethane	50.0	45.8	91.6	80-120	
Chloroform	50.0	45.9	91.8	80-120	
Chloromethane	50.0	44.4	88.7	80-120	
Chloroprene	50.0	44.3	88.5	80-120	
cis-1,2-Dichloroethene	50.0	46.5	93.0	80-120	
cis-1,3-Dichloropropene	50.0	43.0	86.0	80-120	
Dibromochloromethane	50.0	43.4	86.8	80-120	
Dibromomethane	50.0	46.0	92.0	80-120	
Dichlorodifluoromethane	50.0	42.7	85.4	80-120	
Ethylbenzene	50.0	46.3	92.6	80-120	
Ethyl Methacrylate	50.0	48.5	97.1	80-120	
Iodomethane	100	90.6	90.6	80-120	
Isobutyl Alcohol	1000	955	95.5	70-130	
Propionitrile	500	510	102	70-130	
Hexachlorobutadiene	50.0	45.4	90.7	80-120	
Isopropylbenzene	50.0	46.0	92.0	80-120	
m,p-Xylenes	100	93.2	93.2	80-120	
Methyl tert-butyl ether	50.0	45.8	91.7	80-120	
Methylene Chloride	50.0	46.2	92.4	80-120	
Methacrylonitrile	50.0	46.2	92.3	80-120	
Methyl Methacrylate	50.0	49.8	99.5	80-120	

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 18/24

Workorder HS24060293

RunID X061513A.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix LIQUID
Lab Smp Id VSTD50
Data Type MS DATA
File ID X061513A.D

Fraction VOA
Client Smp ID VSTD050
SampleType METHSPIKE
Inj Date 15-JUN-2024 1835

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
n-Butylbenzene	50.0	45.2	90.3	80-120	
n-Propylbenzene	50.0	45.3	90.6	80-120	
Naphthalene	50.0	44.7	89.4	80-120	
o-Xylene	50.0	46.6	93.1	80-120	
sec-Butylbenzene	50.0	45.4	90.8	80-120	
Styrene	50.0	47.6	95.1	80-120	
tert-Butylbenzene	50.0	44.8	89.6	80-120	
Tetrachloroethene	50.0	46.3	92.6	80-120	
Toluene	50.0	46.8	93.7	80-120	
trans-1,2-Dichloroethene	50.0	45.6	91.1	80-120	
trans-1,3-Dichloropropene	50.0	43.0	86.0	80-120	
trans-1,4-Dichloro-2-butene	50.0	43.3	86.5	80-120	
Trichloroethene	50.0	45.4	90.9	80-120	
Trichlorofluoromethane	50.0	44.2	88.3	80-120	
Vinyl Acetate	100	93.6	93.6	80-120	
Vinyl Chloride	50.0	44.6	89.1	80-120	
1,2-Dichloroethylene (total)	100	92.0	92.0	80-120	
Xylenes (total)	150	140	93.2	80-120	
1,4-Dioxane	1000	1041	104	80-120	
Dibromofluoromethane	50.0	48.1	96.3	85-115	
1,2-Dichloroethane-d4	50.0	46.5	93.0	70-120	
Toluene-d8	50.0	48.8	97.5	85-115	
4-Bromofluorobenzene	50.0	49.0	97.9	75-120	

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Form 7

Continuing Calibration Verification (CCV)

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24060293

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 18/24

07/15/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 18/24

Workorder HS24060293

RunID X061541.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa7.i
Lab File ID X061541.D
Analysis Type WATER
Lab Sample ID VSTD50

Injection Date 16-JUN-2024 0516
ICAL Date(s) 12-JUN-2024, 15-JUN-2024
ICAL Times 11:43, 17:04
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Dichlorodifluoromethane	50.0	44.1	0.468	0.100	-11.843	50.0	Linear	
Dichlorofluoromethane	1.04	0.984	0.984	0.100	-5.456	50.0	Averaged	
Chloromethane	50.0	44.3	0.685	0.100	-11.384	50.0	Linear	
Propionitrile	500	434	0.059	0.010	-13.177	50.0	Linear	
Vinyl Chloride	50.0	44.4	0.627	0.100	-11.105	50.0	Linear	
Bromomethane	50.0	45.6	0.348	0.100	-8.729	50.0	Linear	
Chloroethane	50.0	45.0	0.386	0.100	-9.961	50.0	Linear	
Trichlorofluoromethane	50.0	45.2	0.826	0.100	-9.583	50.0	Linear	
Acrolein	0.014	0.014	0.014	0.010	2.60	50.0	Averaged	
Acetone	100	88.7	0.156	0.100	-11.261	50.0	Linear	
1,1-Dichloroethene	50.0	44.6	0.459	0.100	-10.806	50.0	Linear	
Isobutyl Alcohol	1000	869	0.072	0.005	-13.064	50.0	Linear	
Acetonitrile	500	498	0.077	0.010	-0.491	50.0	Linear	
Allyl Chloride	50.0	47.6	1.53	0.050	-4.817	50.0	Linear	
Iodomethane	100	85.5	0.555	0.100	-14.529	50.0	Linear	
Acrylonitrile	100	91.4	0.161	0.050	-8.557	50.0	Linear	
Methylene Chloride	50.0	44.7	0.530	0.100	-10.651	50.0	Linear	
Methyl tert-butyl ether	50.0	44.7	1.27	0.100	-10.555	50.0	Linear	
Carbon Disulfide	100	86.5	1.37	0.100	-13.544	50.0	Linear	
trans-1,2-Dichloroethene	50.0	43.9	0.469	0.100	-12.220	50.0	Linear	
Vinyl Acetate	100	78.6	0.224	0.100	-21.405	50.0	Linear	
1,1-Dichloroethane	1.18	0.989	0.989	0.200	-15.891	50.0	Averaged	
Chloroprene	50.0	43.2	0.807	0.050	-13.548	50.0	Linear	
2-Butanone	100	80.8	0.193	0.100	-19.161	50.0	Linear	
Methacrylonitrile	0.833	0.760	0.760	0.010	-8.852	50.0	Averaged	
2,2-Dichloropropane	0.998	0.775	0.775	0.100	-22.303	50.0	Averaged	
cis-1,2-Dichloroethene	50.0	44.5	0.532	0.100	-10.975	50.0	Linear	
Chloroform	50.0	45.4	0.967	0.200	-9.263	50.0	Linear	
Bromochloromethane	50.0	44.3	0.258	0.100	-11.357	50.0	Linear	
30 Dibromofluoromethane	50.0	59.2	0.628	0.100	18.3	50.0	Quadratic	
1,1,1-Trichloroethane	50.0	43.8	0.823	0.100	-12.314	50.0	Linear	
1,1-Dichloropropene	50.0	42.2	0.414	0.100	-15.556	50.0	Linear	
1,2-Dichloroethane	50.0	43.6	0.473	0.100	-12.829	50.0	Linear	
Carbon Tetrachloride	50.0	40.8	0.403	0.100	-18.313	50.0	Linear	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 18/24

Workorder HS24060293

RunID X061541.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa7.i
Lab File ID X061541.D
Analysis Type WATER
Lab Sample ID VSTD50

Injection Date 16-JUN-2024 0516
ICAL Date(s) 12-JUN-2024, 15-JUN-2024
ICAL Times 11:43, 17:04
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
35 1,2-Dichloroethane-d4	50.0	57.4	0.813	0.100	14.7	50.0	Quadratic	
Benzene	50.0	43.4	1.16	0.500	-13.262	50.0	Linear	
Trichloroethene	50.0	43.7	0.301	0.200	-12.519	50.0	Linear	
Bromodichloromethane	0.557	0.433	0.433	0.200	-22.293	50.0	Averaged	
Methyl Methacrylate	50.0	48.6	0.521	0.050	-2.717	50.0	Linear	
2-Chloroethylvinyl ether	100	89.3	0.121	0.050	-10.710	50.0	Quadratic	
1,2-Dichloropropane	50.0	42.5	0.326	0.100	-15.025	50.0	Linear	
2-Nitropropane	50.0	42.0	0.151	0.100	-15.929	50.0	Linear	
Dibromomethane	50.0	41.9	0.184	0.100	-16.187	50.0	Linear	
4-Methyl-2-Pentanone	100	80.8	0.304	0.100	-19.199	50.0	Linear	
cis-1,3-Dichloropropene	50.0	39.9	0.436	0.200	-20.239	50.0	Linear	
48 Toluene-d8	50.0	59.1	1.42	0.100	18.2	50.0	Quadratic	
Ethyl Methacrylate	50.0	35.7	0.310	0.010	-28.693	50.0	Quadratic	
Toluene	50.0	43.5	1.29	0.400	-12.997	50.0	Linear	
trans-1,3-Dichloropropene	50.0	39.9	0.436	0.100	-20.239	50.0	Linear	
2-Hexanone	100	79.7	0.203	0.100	-20.262	50.0	Linear	
1,1,2-Trichloroethane	50.0	43.8	0.244	0.100	-12.419	50.0	Linear	
1,3-Dichloropropane	50.0	43.0	0.514	0.100	-13.940	50.0	Linear	
Dibromochloromethane	0.410	0.324	0.324	0.100	-20.794	50.0	Averaged	
Tetrachloroethene	50.0	43.5	0.247	0.100	-12.925	50.0	Linear	
1,2-Dibromoethane	50.0	42.2	0.249	0.100	-15.686	50.0	Linear	
1-Chlorohexane	50.0	40.7	0.284	0.100	-18.513	50.0	Linear	
Chlorobenzene	50.0	43.5	0.842	0.500	-12.984	50.0	Linear	
1,1,1,2-Tetrachloroethane	50.0	42.4	0.293	0.100	-15.298	50.0	Linear	
Ethylbenzene	50.0	42.9	0.429	0.100	-14.170	50.0	Linear	
m,p-Xylenes	100	86.6	0.542	0.100	-13.403	50.0	Linear	
o-Xylene	50.0	43.8	0.530	0.300	-12.321	50.0	Linear	
Styrene	50.0	44.2	0.944	0.300	-11.696	50.0	Linear	
Bromoform	0.258	0.205	0.205	0.100	-20.550	50.0	Averaged	
Isopropylbenzene	50.0	43.7	1.37	0.100	-12.561	50.0	Linear	
1,1,2,2-Tetrachloroethane	50.0	38.9	0.652	0.300	-22.276	50.0	Linear	
69 4-Bromofluorobenzene	50.0	54.3	0.524	0.100	8.59	50.0	Quadratic	
1,2,3-Trichloropropane	50.0	38.4	0.731	0.100	-23.244	50.0	Linear	
trans-1,4-Dichloro-2-butene	50.0	35.6	0.077	0.050	-28.825	50.0	Linear	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 18/24

Workorder HS24060293

RunID X061541.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa7.i
Lab File ID X061541.D
Analysis Type WATER
Lab Sample ID VSTD50

Injection Date 16-JUN-2024 0516
ICAL Date(s) 12-JUN-2024, 15-JUN-2024
ICAL Times 11:43, 17:04
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
n-Propylbenzene	50.0	40.9	3.05	0.100	-18.254	50.0	Linear	
Bromobenzene	50.0	42.1	0.684	0.100	-15.829	50.0	Linear	
1,3,5-Trimethylbenzene	50.0	41.3	2.21	0.100	-17.467	50.0	Linear	
2-Chlorotoluene	50.0	41.7	1.89	0.100	-16.541	50.0	Linear	
4-Chlorotoluene	50.0	42.0	2.26	0.100	-15.901	50.0	Linear	
tert-Butylbenzene	50.0	42.2	1.86	0.100	-15.538	50.0	Linear	
1,2,4-Trimethylbenzene	50.0	42.0	2.23	0.100	-16.066	50.0	Linear	
sec-Butylbenzene	50.0	41.9	2.55	0.100	-16.206	50.0	Linear	
p-Isopropyltoluene	50.0	41.6	2.28	0.100	-16.858	50.0	Linear	
1,3-Dichlorobenzene	50.0	41.5	1.24	0.600	-17.097	50.0	Linear	
1,4-Dichlorobenzene	50.0	41.9	1.28	0.400	-16.229	50.0	Linear	
n-Butylbenzene	50.0	40.4	2.08	0.050	-19.102	50.0	Linear	
1,2-Dichlorobenzene	50.0	41.8	1.20	0.400	-16.436	50.0	Linear	
1,2-Dibromo-3-Chloropropane	0.148	0.105	0.105	0.050	-28.808	50.0	Averaged	
1,2,4-Trichlorobenzene	50.0	36.9	0.696	0.200	-26.210	50.0	Linear	
Hexachlorobutadiene	50.0	39.1	0.354	0.100	-21.711	50.0	Linear	
Naphthalene	2.14	1.45	1.45	0.200	-32.174	50.0	Averaged	
1,2,3-Trichlorobenzene	0.781	0.545	0.545	0.100	-30.185	50.0	Averaged	
1,4-Dioxane	1000	879	0.004	0.001	-12.119	50.0	Linear	
Methyl Acetate	++++	++++	3.532e+56	0.100	++++	50.0	Linear	*
Freon TF	50.0	42.8	0.436	0.100	-14.337	50.0	Linear	
Diethyl ether	0.365	0.349	0.349	0.050	-4.190	50.0	Averaged	
1,3-Butadiene	50.0	43.9	0.283	0.050	-12.241	50.0	Linear	
Cyclohexane	50.0	42.8	0.762	0.100	-14.483	50.0	Linear	
Methylcyclohexane	50.0	41.7	0.412	0.100	-16.687	50.0	Linear	
n-Butanol	0.016	0.015	0.015	0.001	-8.155	50.0	Averaged	
Methyl Acrylate	50.0	46.0	0.506	0.100	-8.028	50.0	Linear	
Ethyl Acrylate	1.41	0.575	0.575	0.100	-59.157	50.0	Averaged	
n-Hexane	50.0	39.1	0.498	0.100	-21.740	50.0	Linear	
Tetrahydrofuran	100	93.1	0.087	0.050	-6.869	50.0	Linear	
Tert-butyl alcohol	0.037	0.026	0.026	0.005	-29.998	50.0	Averaged	
Isopropyl alcohol	1000	859	0.022	0.005	-14.121	50.0	Linear	
4-Methyl-2-pentanol	1000	783	0.103	0.005	-21.731	50.0	Linear	
1,2,3-Trimethylbenzene	2.58	2.16	2.16	0.100	-16.100	50.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 18/24

Workorder HS24060293

RunID X061541.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa7.i
Lab File ID X061541.D
Analysis Type WATER
Lab Sample ID VSTD50

Injection Date 16-JUN-2024 0516
ICAL Date(s) 12-JUN-2024, 15-JUN-2024
ICAL Times 11:43, 17:04
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Ethanol	1000	844	0.004	0.001	-15.581	50.0	Quadratic	
tert-Butyl formate	100	83.1	0.258	0.100	-16.923	50.0	Linear	
3,3-Dimethyl-1-butanol	1000	733	0.024	0.005	-26.657	50.0	Quadratic	
tert-Amyl methyl ether	50.0	45.8	1.40	0.050	-8.348	50.0	Linear	
tert-Butyl ethyl ether	1.70	1.55	1.55	0.100	-9.093	50.0	Averaged	
2-Methylnaphthalene	0.781	0.486	0.486	0.050	-37.735	50.0	Averaged	
Diisopropyl ether	1.99	1.86	1.86	0.050	-6.446	50.0	Averaged	
1-Methylnaphthalene	0.690	0.408	0.408	0.100	-40.843	50.0	Averaged	
Ethyl Acetate	50.0	38.9	2.70	0.010	-22.271	50.0	Linear	
tert-Amyl alcohol	1000	855	0.025	0.005	-14.538	50.0	Linear	
Epichlorohydrin	200	169	0.018	0.005	-15.334	50.0	Linear	
Butyl acrylate	50.0	45.2	0.768	0.100	-9.554	50.0	Linear	
Isobutylene	++++	++++	3.532e+56	0.100	++++	50.0	Linear	*
Isopropyl Acetate	50.0	42.2	0.850	0.100	-15.544	50.0	Linear	
n-Amyl acetate	50.0	38.2	0.626	0.100	-23.515	50.0	Linear	
Acetaldehyde	200	207	0.084	0.100	3.62	0.000e+000	Linear	<-
n-Butyl acetate	50.0	43.5	0.516	0.100	-13.100	50.0	Linear	
2-Etyhlhexyl Acrylate	50.0	30.4	0.358	0.100	-39.212	50.0	Quadratic	
Tetrahydrothiophene	50.0	45.8	0.362	0.100	-8.476	50.0	Linear	
sec-Butyl Ether	50.0	50.6	0.337	0.100	1.17	0.000e+000	Linear	*
Isoprene	50.0	54.4	0.167	0.100	8.87	50.0	Linear	
2-Chloropropene	0.860	0.760	0.760	0.100	-11.696	50.0	Averaged	
94 1,2-Dichloroethylene (total	100	++++	0.501	0.100	++++	50.0	Linear	*
95 Xylenes (total)	150	++++	0.498	0.100	++++	50.0	Linear	*

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Form 8

Internal Standard Area and RT Summary

<textMethods>

Workorder

HS24060293

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 18/24

07/15/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 8 - Internal Standard Area and RT Summary

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 18/24

Workorder **HS24060293**

EPA SW8260

VOA7_469580		Pentafluorobenzene				1,4 Difluorobenzene				Chlorobenzene d5				1,4-Dichlorobenzene d4			
Sample ID	File ID	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
12-HOUR STD (CCV)	X061513A.D	136227	#	5.13	#	227526	#	5.85	#	209133	#	8.47	#	109830	#	10.46	#
HS24060293-01	X061528.D	122060		5.13		206220		5.85		194812		8.47		95132		10.46	
HS24060293-03	X061529.D	119907		5.13		209105		5.86		198029		8.47		97703		10.46	
HS24060293-04	X061530.D	122627		5.13		207902		5.85		195961		8.47		95080		10.46	
HS24060293-05	X061531.D	123243		5.13		208758		5.85		197827		8.47		98094		10.46	
HS24060293-06	X061532.D	118107		5.13		203474		5.85		196014		8.47		98395		10.46	
HS24060293-07	X061519.D	126579		5.13		210394		5.85		203925		8.47		101749		10.46	
VBLKW-240615	X061517.D	129701		5.13		216943		5.85		207060		8.47		106137		10.46	
VLCSDW-240615	X061515.D	134840		5.13		227658		5.85		207048		8.47		103396		10.46	
VLCSW-240615	X061514.D	144011		5.13		236601		5.85		214543		8.47		108099		10.46	
MS-ZZZZZZMS	X061522.D	129511		5.13		214351		5.85		199549		8.47		102881		10.46	
ZZZZZZMSD	X061523.D	127655		5.13		214775		5.85		199331		8.47		103987		10.46	

AREA UPPER LIMIT = +100% of STD IS Area
AREA LOWER LIMIT = - 50% of STD IS Area
RT - Retention IS - Internal StandardTime

RT UPPER LIMIT = + 0.50 of STD IS RT
RT LOWER LIMIT = - 0.50 of STD IS RT
CCV - Continuing Calibration Verification

- Area or RT Limit Flag
* - Value Outside Area or RT limits
H - Hour STD - Standard

right solutions.
right partner.

Analysis Run Log

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24060293

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 18/24

07/15/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 18/24

Workorder **HS24060293**

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA7-469569

Run ID VOA7_469569 **Start Date** 06/15/24 **EndDate** 06/15/24

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
14:01	VSTD00.5	ICAL1	VSTD00.5	X061502.D	06/15/24	1
14:24	VSTD001	ICAL2	VSTD001	X061503.D	06/15/24	1
14:46	VSTD002	ICAL3	VSTD002	X061504.D	06/15/24	1
15:09	VSTD005	ICAL4	VSTD005	X061505.D	06/15/24	1
15:32	VSTD010	ICAL5	VSTD010	X061506.D	06/15/24	1
15:55	VSTD020	ICAL6	VSTD020	X061507.D	06/15/24	1
16:18	VSTD050	ICAL7	VSTD050	X061508.D	06/15/24	1
16:41	VSTD100	ICAL8	VSTD100	X061509.D	06/15/24	1
17:04	VSTD200	ICAL9	VSTD200	X061510.D	06/15/24	1
18:35	VSTD50	ICV	VSTD50	X061513A.D	06/15/24	1

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 18/24

Workorder **HS24060293**

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA7-469580

Run ID VOA7_469580 Start Date 06/15/24 EndDate 06/16/24

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
18:35	VSTD50	CCV	VSTD50	X061513A.D	06/15/24	1
18:58	VLCSW-240615	LCS	VLCSW-240615	X061514.D	06/15/24	1
19:21	VLCSDW-240615	LCSD	VLCSDW-240615	X061515.D	06/15/24	1
20:07	VBLKW-240615	MBLK	VBLKW-240615	X061517.D	06/15/24	1
20:30	HS24060747-10	SAMP	ZZZZZZZZZZ	X061518.D	06/15/24	1
20:53	HS24060293-07	SAMP	CG-052424-73	X061519.D	06/15/24	1
21:15	HS24060434-01	SAMP	ZZZZZZZZZZ	X061520.D	06/15/24	250
22:01	HS24060434-01MS	MS	ZZZZZZMS	X061522.D	06/15/24	250
22:24	HS24060434-01MSD	MSD	ZZZZZZMSD	X061523.D	06/15/24	250
00:19	HS24060293-01	SAMP	MW5_060524	X061528.D	06/16/24	1
00:41	HS24060293-03	SAMP	18CPTMW08SW_0605	X061529.D	06/16/24	1
01:04	HS24060293-04	SAMP	18CPTMW03SW_0605	X061530.D	06/16/24	1
01:27	HS24060293-05	SAMP	18CPTMW022DW_060	X061531.D	06/16/24	1
01:50	HS24060293-06	SAMP	18CPTMW022R_06052	X061532.D	06/16/24	1
02:13	HS24060487-06	SAMP	ZZZZZZZZZZ	X061533.D	06/16/24	1
02:36	HS24060487-07	SAMP	ZZZZZZZZZZ	X061534.D	06/16/24	1
02:59	HS24060487-08	SAMP	ZZZZZZZZZZ	X061535.D	06/16/24	1
03:22	HS24060487-10	SAMP	ZZZZZZZZZZ	X061536.D	06/16/24	1
03:45	HS24060487-09	SAMP	ZZZZZZZZZZ	X061537.D	06/16/24	10
04:08	HS24060487-04	SAMP	ZZZZZZZZZZ	X061538.D	06/16/24	100
04:30	HS24060487-05	SAMP	ZZZZZZZZZZ	X061539.D	06/16/24	100
05:16	VSTD50	CCV_END	VSTD50	X061541.D	06/16/24	1

MSVOA07 -Logbook

Batch: 60715 **Analyst:** Firat Tastan

Date: 06-15-2024 **Reviewer:**

Method: 8260 **Laboratory:** Houston

Comments:

#	Samp ID	Type	Analyzed	DF	Init Wt/Vol	Final Vol	File ID	Matrix	Status	pH
1	BFB	TUNE	06-15-2024 01:38 pm	1.00	0.00 mL	0.00 mL	X061501.D	Liquid	Y	<2
2	VSTD00.5	ICAL1	06-15-2024 02:01 pm	1.00	5.00 mL	0.00 mL	X061502.D	Liquid	Y	<2
3	VSTD001	ICAL2	06-15-2024 02:24 pm	1.00	5.00 mL	0.00 mL	X061503.D	Liquid	Y	<2
4	VSTD002	ICAL3	06-15-2024 02:46 pm	1.00	5.00 mL	0.00 mL	X061504.D	Liquid	Y	<2
5	VSTD005	ICAL4	06-15-2024 03:09 pm	1.00	5.00 mL	0.00 mL	X061505.D	Liquid	Y	<2
6	VSTD010	ICAL5	06-15-2024 03:32 pm	1.00	5.00 mL	0.00 mL	X061506.D	Liquid	Y	<2
7	VSTD020	ICAL6	06-15-2024 03:55 pm	1.00	5.00 mL	0.00 mL	X061507.D	Liquid	Y	<2
8	VSTD050	ICAL7	06-15-2024 04:18 pm	1.00	5.00 mL	0.00 mL	X061508.D	Liquid	Y	<2
9	VSTD100	ICAL8	06-15-2024 04:41 pm	1.00	5.00 mL	0.00 mL	X061509.D	Liquid	Y	<2
10	VSTD200	ICAL9	06-15-2024 05:04 pm	1.00	5.00 mL	0.00 mL	X061510.D	Liquid	Y	<2
11	BLK	SAMP	06-15-2024 05:27 pm	1.00	5.00 mL	0.00 mL	X061511.D	Liquid	Y	<2
12	BFB	TUNE	06-15-2024 05:50 pm	1.00	0.00 mL	0.00 mL	X061512.D	Liquid	Y	<2
13	VSTD50	CCV	06-15-2024 06:12 pm	1.00	5.00 mL	0.00 mL	X061513.D	Liquid	Y	<2
14	VSTD50	ICV	06-15-2024 06:35 pm	1.00	5.00 mL	0.00 mL	X061513A.D	Liquid	Y	<2
15	VLCSW-240615	LCS	06-15-2024 06:58 pm	1.00	5.00 mL	0.00 mL	X061514.D	Liquid	Y	<2
16	VLCSDW-240615	LCSD	06-15-2024 07:21 pm	1.00	5.00 mL	0.00 mL	X061515.D	Liquid	Y	<2
17	BLK	SAMP	06-15-2024 07:44 pm	1.00	5.00 mL	0.00 mL	X061516.D	Liquid	Y	<2
18	VBLKW-240615	MBLK	06-15-2024 08:07 pm	1.00	5.00 mL	0.00 mL	X061517.D	Liquid	Y	<2
19	HS24060747-10	SAMP	06-15-2024 08:30 pm	1.00	5.00 mL	0.00 mL	X061518.D	Liquid	Y	<2
20	HS24060293-07	SAMP	06-15-2024 08:53 pm	1.00	5.00 mL	0.00 mL	X061519.D	Liquid	Y	<2
21	HS24060434-01	SAMP	06-15-2024 09:15 pm	250.0(	5.00 mL	0.00 mL	X061520.D	Liquid	Y	<2
22	HS24060812-01	SAMP	06-15-2024 09:38 pm	1.00	5.00 mL	0.00 mL	X061521.D	Liquid	Y	<2
23	HS24060434-01MS	MS	06-15-2024 10:01 pm	250.0(	5.00 mL	0.00 mL	X061522.D	Liquid	Y	<2
24	HS24060434-01MSD	MSD	06-15-2024 10:24 pm	1.00	5.00 mL	0.00 mL	X061523.D	Liquid	Y	<2
25	HS24060722-01	SAMP	06-15-2024 10:47 pm	1.00	5.00 mL	0.00 mL	X061524.D	Liquid	Y	<2
26	HS24060803-01	SAMP	06-15-2024 11:10 pm	1.00	5.00 mL	0.00 mL	X061525.D	Liquid	Y	<2
27	HS24060803-02	SAMP	06-15-2024 11:33 pm	1.00	5.00 mL	0.00 mL	X061526.D	Liquid	Y	<2
28	HS24060680-01	SAMP	06-15-2024 11:56 pm	1.00	5.00 mL	0.00 mL	X061527.D	Liquid	Y	<2
29	HS24060293-01	SAMP	06-16-2024 12:19 am	1.00	5.00 mL	0.00 mL	X061528.D	Liquid	Y	<2
30	HS24060293-03	SAMP	06-16-2024 12:41 am	1.00	5.00 mL	0.00 mL	X061529.D	Liquid	Y	<2
31	HS24060293-04	SAMP	06-16-2024 01:04 am	1.00	5.00 mL	0.00 mL	X061530.D	Liquid	Y	<2
32	HS24060293-05	SAMP	06-16-2024 01:27 am	1.00	5.00 mL	0.00 mL	X061531.D	Liquid	Y	<2
33	HS24060293-06	SAMP	06-16-2024 01:50 am	1.00	5.00 mL	0.00 mL	X061532.D	Liquid	Y	<2
34	HS24060487-06	SAMP	06-16-2024 02:13 am	1.00	5.00 mL	0.00 mL	X061533.D	Liquid	Y	<2
35	HS24060487-07	SAMP	06-16-2024 02:36 am	1.00	5.00 mL	0.00 mL	X061534.D	Liquid	Y	<2
36	HS24060487-08	SAMP	06-16-2024 02:59 am	1.00	5.00 mL	0.00 mL	X061535.D	Liquid	Y	<2
37	HS24060487-10	SAMP	06-16-2024 03:22 am	1.00	5.00 mL	0.00 mL	X061536.D	Liquid	Y	<2
38	HS24060487-09	SAMP	06-16-2024 03:45 am	10.00	5.00 mL	0.00 mL	X061537.D	Liquid	Y	<2
39	HS24060487-04	SAMP	06-16-2024 04:08 am	100.0(	5.00 mL	0.00 mL	X061538.D	Liquid	Y	<2
40	HS24060487-05	SAMP	06-16-2024 04:30 am	100.0(	5.00 mL	0.00 mL	X061539.D	Liquid	Y	<2
41	BLK	SAMP	06-16-2024 04:53 am	1.00	5.00 mL	0.00 mL	X061540.D	Liquid	Y	<2

MSVOA07 -Logbook

#	Samp ID	Type	Analyzed	DF	Init Wt/Vol	Final Vol	File ID	Matrix	Status	pH
42	VSTD50	CCV	06-16-2024 05:16 am	1.00	5.00 mL	0.00 mL	X061541.D	Liquid	Y	<2
43	BFB	TUNE	06-16-2024 05:39 am	1.00	0.00 mL	0.00 mL	Q061501.D	Liquid	Y	<2
44	VSTD50	CCV	06-16-2024 06:02 am	1.00	5.00 mL	0.00 mL	Q061502.D	Liquid	Y	<2
45	VLCSW-240615	LCS	06-16-2024 06:48 am	1.00	5.00 mL	0.00 mL	Q061503.D	Liquid	Y	<2
46	VLCSDW-240615	LCSD	06-16-2024 07:11 am	1.00	5.00 mL	0.00 mL	Q061504.D	Liquid	Y	<2
47	BLK	SAMP	06-16-2024 07:34 am	1.00	5.00 mL	0.00 mL	Q061505.D	Liquid	Y	<2
48	VBLKW-240615	MBLK	06-16-2024 07:57 am	1.00	5.00 mL	0.00 mL	Q061506.D	Liquid	Y	<2
49	MBLK-213383	MBLK	06-16-2024 08:22 am	20.00	5.00 mL	0.00 mL	Q061507.D	Liquid	Y	<2
50	HS24060444-01	SAMP	06-16-2024 08:47 am	20.00	5.00 mL	0.00 mL	Q061508.D	Liquid	Y	<2
51	HS24060444-01MS	MS	06-16-2024 09:12 am	20.00	5.00 mL	0.00 mL	Q061509.D	Liquid	Y	<2
52	HS24060444-01MSD	MSD	06-16-2024 09:37 am	20.00	5.00 mL	0.00 mL	Q061510.D	Liquid	Y	<2
53	HS24060444-02	SAMP	06-16-2024 10:02 am	20.00	5.00 mL	0.00 mL	Q061511.D	Liquid	Y	<2
54	HS24060444-03	SAMP	06-16-2024 10:28 am	20.00	5.00 mL	0.00 mL	Q061512.D	Liquid	Y	<2
55	HS24060444-04	SAMP	06-16-2024 10:53 am	20.00	5.00 mL	0.00 mL	Q061513.D	Liquid	Y	<2
56	HS24060444-05	SAMP	06-16-2024 11:18 am	20.00	5.00 mL	0.00 mL	Q061514.D	Liquid	Y	<2
57	HS24060444-06	SAMP	06-16-2024 11:43 am	20.00	5.00 mL	0.00 mL	Q061515.D	Liquid	Y	<2
58	HS24060444-07	SAMP	06-16-2024 12:08 pm	20.00	5.00 mL	0.00 mL	Q061516.D	Liquid	Y	<2
59	HS24060448-01	SAMP	06-16-2024 12:34 pm	20.00	5.00 mL	0.00 mL	Q061517.D	Liquid	Y	<2
60	MBLK-213245	MBLK	06-16-2024 12:59 pm	20.00	5.00 mL	0.00 mL	Q061518.D	Liquid	Y	<2
61	HS24060408-01	SAMP	06-16-2024 01:24 pm	20.00	5.00 mL	0.00 mL	Q061519.D	Liquid	Y	<2
62	HS24060248-01	SAMP	06-16-2024 01:49 pm	20.00	5.00 mL	0.00 mL	Q061520.D	Liquid	Y	<2
63	HS24060230-12	SAMP	06-16-2024 02:12 pm	125000.	5.00 mL	0.00 mL	Q061521.D	Liquid	Y	<2
64	HS24060460-05	SAMP	06-16-2024 02:37 pm	250.0(	5.00 mL	0.00 mL	Q061522.D	Liquid	Y	<2
65	HS24060460-09	SAMP	06-16-2024 03:03 pm	100.0(	5.00 mL	0.00 mL	Q061523.D	Liquid	Y	<2
66	HS24060230-01	SAMP	06-16-2024 03:26 pm	1000.0	5.00 mL	0.00 mL	Q061524.D	Liquid	Y	<2
67	HS24060230-03	SAMP	06-16-2024 03:49 pm	1000.0	5.00 mL	0.00 mL	Q061525.D	Liquid	Y	<2
68	HS24060230-08	SAMP	06-16-2024 04:12 pm	5000.0	5.00 mL	0.00 mL	Q061526.D	Liquid	Y	<2
69	HS24060748-02	SAMP	06-16-2024 04:35 pm	500.0(	5.00 mL	0.00 mL	Q061527.D	Liquid	Y	<2
70	HS24060748-03	SAMP	06-16-2024 04:57 pm	500.0(	5.00 mL	0.00 mL	Q061528.D	Liquid	Y	<2
71	HS24060748-04	SAMP	06-16-2024 05:20 pm	250.0(	5.00 mL	0.00 mL	Q061529.D	Liquid	Y	<2
72	HS24060436-01	SAMP	06-16-2024 05:43 pm	50.00	5.00 mL	0.00 mL	Q061530.D	Liquid	Y	<2
73	BLK	SAMP	06-16-2024 06:06 pm	1.00	5.00 mL	0.00 mL	Q061531.D	Liquid	Y	<2
74	BLK	SAMP	06-16-2024 06:29 pm	1.00	5.00 mL	0.00 mL	Q061532.D	Liquid	Y	<2

right solutions.
right partner.

RawData

<textMethods>

Workorder

HS24060293

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 18/24

07/15/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Data File: \\nahstws005\Target\chem\voa7.i\P240615.b\X061501.D Page 1
Report Date: 17-Jun-2024 09:02

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa7.i\P240615.b\X061501.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 15-JUN-2024 13:38
Operator : AP Inst ID: voa7.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240615.b\bfb.m
Meth Date : 25-Mar-2024 14:28 apoluri Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAHSTW7066

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	2.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/l)		
RT	EXP RT	REL RT	MASS	RESPONSE			TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
9.477	9.474	(0.000)	95	76904			0.00- 100.00	100.00
9.477	9.474	(0.000)	50	16296			15.00- 40.00	21.19
9.477	9.474	(0.000)	75	39440			30.00- 60.00	51.28
9.477	9.474	(0.000)	96	5265			5.00- 9.00	6.85
9.477	9.474	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
9.477	9.474	(0.000)	174	57840			50.00- 0.00	75.21
9.477	9.474	(0.000)	175	5116			5.00- 9.00	8.85
9.477	9.474	(0.000)	176	56520			95.00- 101.00	97.72
9.477	9.474	(0.000)	177	3307			5.00- 9.00	5.85

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	21.19
75	30.00 - 60.00% of mass 95	51.28
96	5.00 - 9.00% of mass 95	6.85
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	75.21
175	5.00 - 9.00% of mass 174	6.65 (8.85)
176	95.00 - 101.00% of mass 174	73.49 (97.72)
177	5.00 - 9.00% of mass 176	4.30 (5.85)

Data File: X061501.D
Spectrum: Scan 2764 (9.47)
Location of Maximum: 95.00
Number of points: 64

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.10	822	61.00	3589	81.90	382	128.00	262
37.00	3807	62.00	3616	86.20	181	129.20	152
38.00	3819	63.00	2606	87.00	3190	129.90	231
39.00	1207	64.00	279	87.90	2939	140.90	925
40.00	184	68.00	8099	90.90	318	142.90	685
44.00	576	69.00	8538	91.90	1888	154.80	210
45.10	673	70.00	597	93.00	3403	171.00	234
47.10	924	72.00	559	94.00	8681	171.70	153
48.00	376	73.00	2954	95.00	76904	173.90	57840
49.00	3279	74.00	13384	96.00	5265	175.00	5116
50.00	16296	75.00	39440	97.00	230	175.90	56520
51.00	5127	76.00	3056	103.80	277	176.90	3307
52.00	230	77.00	329	105.90	216	177.80	154
54.90	173	77.80	382	115.80	231		
56.00	1278	79.00	1997	116.90	398		
57.00	2436	79.90	538	117.80	265		
60.00	647	80.90	1671	118.80	346		

Data File: \\nahstws005\Target\chem\voa7.i\P240615.b\X061501.D Page 1

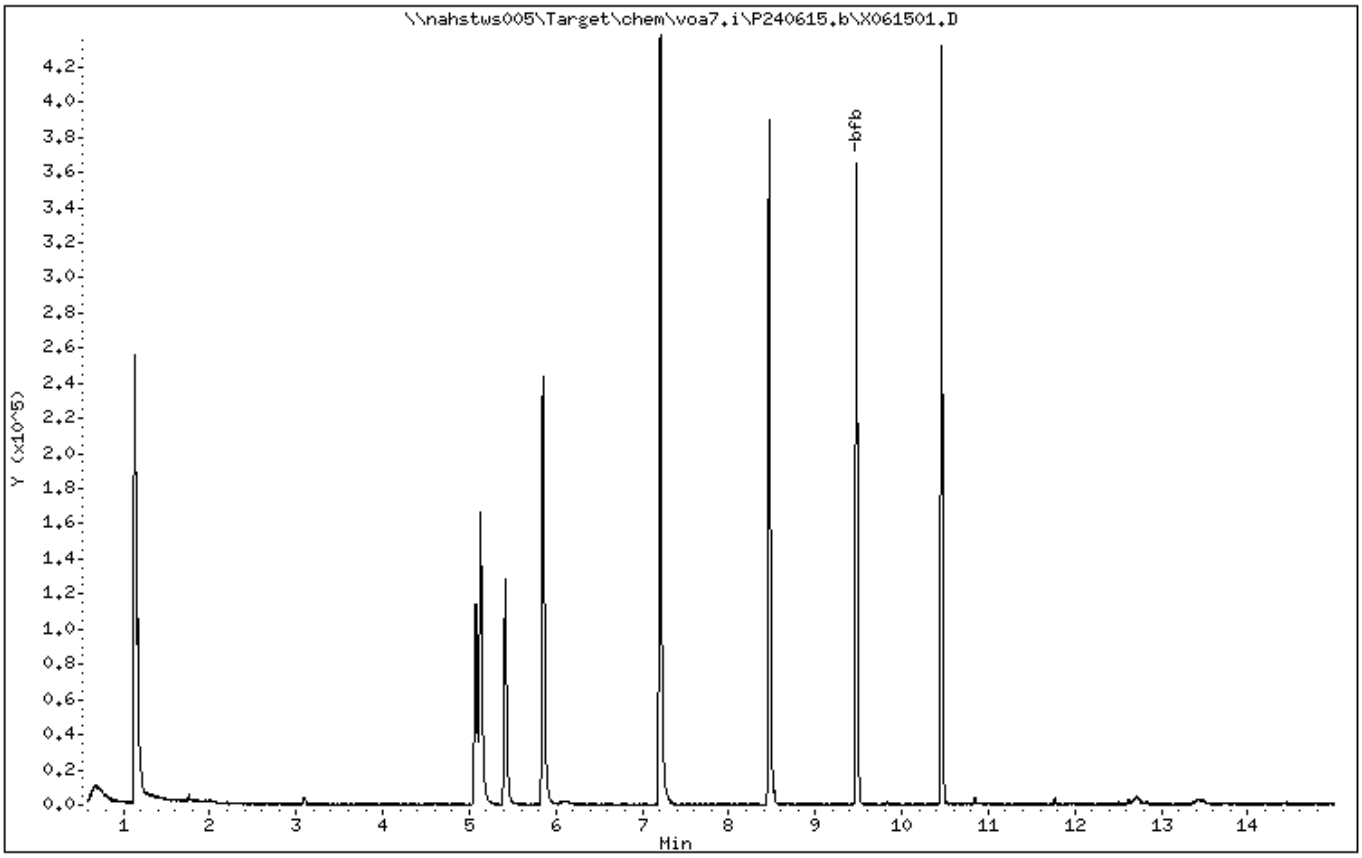
Date : 15-JUN-2024 13:38

Client ID: BFB Instrument: voa7.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: AP

Column phase: DB624 Column diameter: 0.25



Data File: \\nahstws005\Target\chem\voa7.i\P240615.b\X061501.D Page 2

Date : 15-JUN-2024 13:38

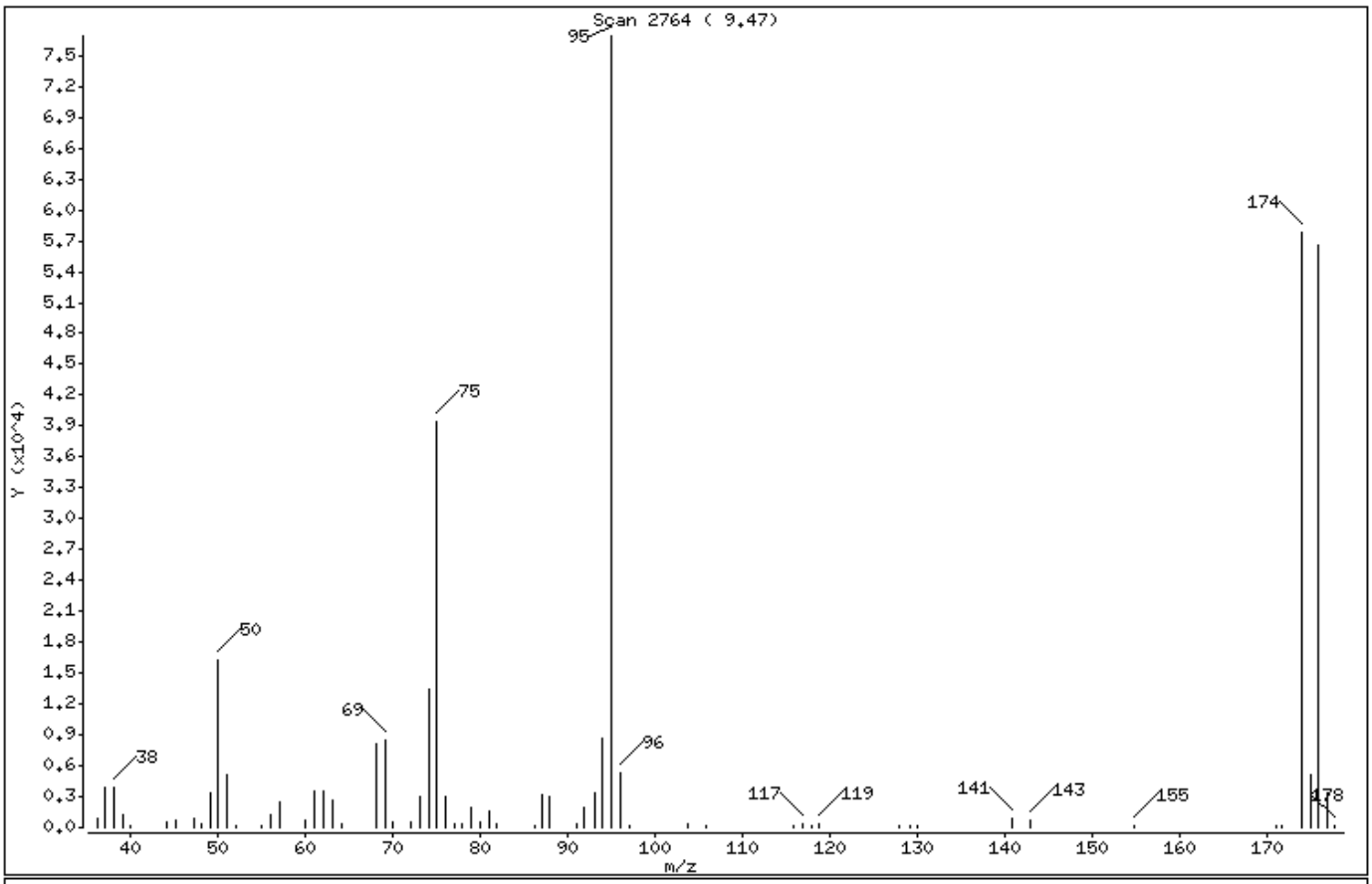
Client ID: BFB Instrument: voa7.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: AP

Column phase: DB624 Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	21.19
75	30.00 - 60.00% of mass 95	51.28
96	5.00 - 9.00% of mass 95	6.85
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	75.21
175	5.00 - 9.00% of mass 174	6.65 (8.85)
176	95.00 - 101.00% of mass 174	73.49 (97.72)
177	5.00 - 9.00% of mass 176	4.30 (5.85)

Data File: \\nahstws005\Target\chem\voa7.i\P240615.b\X061501.D

Date : 15-JUN-2024 13:38

Client ID: BFB Instrument: voa7.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: AP

Column phase: DB624 Column diameter: 0.25

Data File: X061501.D
Spectrum: Scan 2764 (9.47)
Location of Maximum: 95.00
Number of points: 64

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.10	822	61.00	3589	81.90	382	128.00	262
37.00	3807	62.00	3616	86.20	181	129.20	152
38.00	3819	63.00	2606	87.00	3190	129.90	231
39.00	1207	64.00	279	87.90	2939	140.90	925
40.00	184	68.00	8099	90.90	318	142.90	685
44.00	576	69.00	8538	91.90	1888	154.80	210
45.10	673	70.00	597	93.00	3403	171.00	234
47.10	924	72.00	559	94.00	8681	171.70	153
48.00	376	73.00	2954	95.00	76904	173.90	57840
49.00	3279	74.00	13384	96.00	5265	175.00	5116
50.00	16296	75.00	39440	97.00	230	175.90	56520
51.00	5127	76.00	3056	103.80	277	176.90	3307
52.00	230	77.00	329	105.90	216	177.80	154
54.90	173	77.80	382	115.80	231		
56.00	1278	79.00	1997	116.90	398		
57.00	2436	79.90	538	117.80	265		
60.00	647	80.90	1671	118.80	346		

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061502.D Page 1
Report Date: 12-Jul-2024 11:38

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061502.D
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Inj Date : 15-JUN-2024 14:01
Operator : AP Inst ID: voa7.i
Smp Info : VSTD00.5;VSTD00.5;1;1
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240615.b\8260W.m
Meth Date : 12-Jul-2024 11:38 voa7.i Quant Type: ISTD
Cal Date : 15-JUN-2024 14:01 Cal File: X061502.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	5.133	5.133	(1.000)	125772	50.0000	
159	Dichlorofluoromethane	67	2.072	2.072	(0.404)	2316	0.50000	0.88(aM)
11	1,1-Dichloroethene	96	2.590	2.590	(0.505)	512	0.50000	0.55(aM)
13	Acetonitrile	39	2.963	2.963	(0.577)	1925	5.00000	3.67(a)
15	Iodomethane	142	2.747	2.747	(0.535)	618	1.00000	4.20(M)
16	Acrylonitrile	53	3.381	3.381	(0.659)	729	1.00000	0.73(a)
18	Methyl tert-butyl ether	73	3.377	3.377	(0.658)	3223	0.50000	1.18
22	1,1-Dichloroethane	63	3.866	3.866	(0.753)	1523	0.50000	0.51(Ta)
23	Chloroprene	53	3.969	3.969	(0.773)	1169	0.50000	0.46(aM)
25	Methacrylonitrile	41	2.152	2.152	(0.419)	2105	0.50000	1.00(aM)
26	2,2-Dichloropropane	77	4.528	4.528	(0.882)	1306	0.50000	0.52(aM)
$ 30	Dibromofluoromethane	113	5.072	5.072	(0.988)	1850	0.50000	0.32(a)
31	1,1,1-Trichloroethane	97	5.062	5.062	(0.986)	1107	0.50000	0.46(aM)
32	1,1-Dichloropropene	75	5.242	5.242	(0.896)	1117	0.50000	0.68(a)
34	Carbon Tetrachloride	117	5.233	5.233	(0.894)	1128	0.50000	1.47
$ 35	1,2-Dichloroethane-d4	65	5.422	5.422	(1.056)	2602	0.50000	0.63(a)
* 36	1,4-Difluorobenzene	114	5.850	5.850	(1.000)	203911	50.0000	
38	Trichloroethene	130	6.085	6.085	(1.040)	802	0.50000	0.42(a)
39	Bromodichloromethane	83	6.570	6.570	(1.123)	1216	0.50000	0.53(aM)
43	2-Nitropropane	43	6.805	6.805	(1.326)	450	0.50000	1.33(a)

44 Dibromomethane	93	6.413	6.413 (1.096)	452	0.50000	0.46(a)
46 cis-1,3-Dichloropropene	75	6.978	6.978 (1.193)	1394	0.50000	1.04

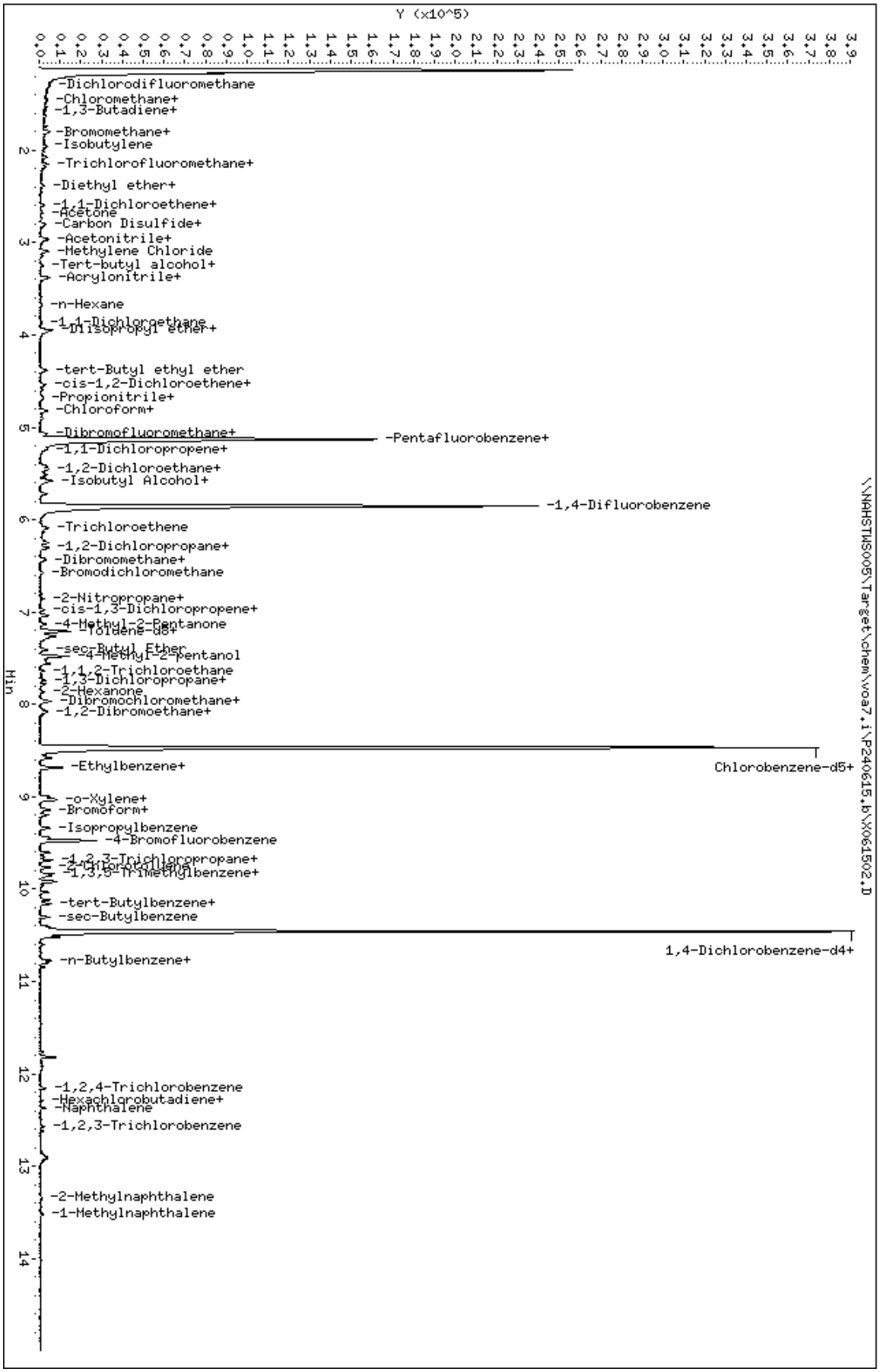
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Report Date: 12-Jul-2024 11:38

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	47 Chlorobenzene-d5	117	8.467	8.467	(1.000)	198233	50.0000	
$	48 Toluene-d8	98	7.207	7.207	(0.851)	9677	0.50000	0.65(a)
	49 Ethyl Methacrylate	69	8.104	8.104	(1.385)	1845	0.50000	1.10(M)
	51 trans-1,3-Dichloropropene	75	6.978	6.978	(1.193)	1394	0.50000	1.04
	55 Dibromochloromethane	129	7.972	7.972	(0.942)	799	0.50000	0.49(a)
	56 Tetrachloroethene	164	7.740	7.740	(0.914)	704	0.50000	0.54(a)
	60 1,1,1,2-Tetrachloroethane	131	8.560	8.560	(1.011)	736	0.50000	0.99(a)
	66 Bromoform	173	9.200	9.200	(1.087)	501	0.50000	0.48(Ta)
$	69 4-Bromofluorobenzene	95	9.474	9.474	(1.119)	8145	0.50000	2.44
*	70 1,4-Dichlorobenzene-d4	152	10.457	10.457	(1.000)	94056	50.0000	
	73 n-Propylbenzene	91	9.686	9.686	(0.926)	4037	0.50000	0.58(a)
	74 Bromobenzene	156	9.602	9.602	(0.918)	883	0.50000	0.37(a)
	75 1,3,5-Trimethylbenzene	105	9.840	9.840	(0.941)	3399	0.50000	0.87(a)
	77 4-Chlorotoluene	91	9.856	9.856	(0.943)	3264	0.50000	0.38(a)
	78 tert-Butylbenzene	119	10.120	10.120	(0.968)	2356	0.50000	0.32(a)
	79 1,2,4-Trimethylbenzene	105	10.152	10.152	(0.971)	3450	0.50000	0.55(a)
	81 sec-Butylbenzene	105	10.303	10.303	(0.985)	3154	0.50000	0.73(a)
	82 p-Isopropyltoluene	119	10.422	10.422	(0.997)	2821	0.50000	0.72(a)
	83 1,3-Dichlorobenzene	146	10.403	10.403	(0.995)	1745	0.50000	0.48(a)
	87 n-Butylbenzene	91	10.773	10.773	(1.030)	3261	0.50000	0.64(a)
	88 1,2-Dichlorobenzene	146	10.801	10.801	(1.033)	1679	0.50000	0.42(a)
	90 1,2,4-Trichlorobenzene	180	12.152	12.152	(1.162)	901	0.50000	1.31
	91 Hexachlorobutadiene	225	12.290	12.290	(1.175)	279	0.50000	1.04
	92 Naphthalene	128	12.371	12.371	(1.183)	2133	0.50000	0.52(a)
	135 1,4-Dioxane	88	6.451	6.451	(1.257)	203	10.0000	5.53(TM)
	146 Methyl acetate	43	2.821	2.821	(0.550)	388	0.50000	(TaM)
	138 Freon TF	101	2.590	2.590	(0.505)	380	0.50000	0.59(aM)
	139 Diethyl ether	59	2.387	2.387	(0.465)	682	0.50000	0.74(a)
	140 1,3-Butadiene	54	1.567	1.567	(0.305)	214	0.50000	0.99(a)
	141 Cyclohexane	56	5.123	5.123	(0.998)	3487	0.50000	0.92(aM)
	147 Methylcyclohexane	83	6.252	6.252	(1.069)	1404	0.50000	2.68
	133 Ethyl Acrylate	55	6.226	6.226	(1.213)	3293	0.50000	0.93(aM)
	136 n-Hexane	57	3.683	3.683	(0.718)	529	0.50000	1.05
	142 Tetrahydrofuran	42	4.869	4.869	(0.949)	337	1.00000	2.88(M)
	148 Tert-butyl alcohol	59	3.242	3.242	(0.632)	2017	10.0000	21.73
	151 4-Methyl-2-pentanol	45	7.477	7.477	(0.883)	8638	10.0000	10.37(a)
	166 1,2,3-Trimethylbenzene	105	10.519	10.519	(1.006)	4626	0.50000	0.95(a)
	173 3,3-Dimethyl-1-butanol	57	8.085	8.085	(0.955)	2542	10.0000	23.98
	175 tert-Butyl ethyl ether	59	4.377	4.377	(0.853)	3589	0.50000	0.83(a)
	156 Diisopropyl ether	45	3.943	3.943	(0.768)	4468	0.50000	0.89(Ta)
	130 Ethyl Acetate	43	3.946	3.946	(0.769)	6119	0.50000	0.83(aM)
	176 tert-Amyl alcohol	59	5.516	5.516	(1.075)	1914	10.0000	1.54(a)
	160 Epichlorohydrin	57	6.921	6.921	(1.183)	109	2.00000	2.56(aM)
	161 Butyl acrylate	55	9.001	9.001	(1.063)	3257	0.50000	1.21(a)
	182 Isobutylene	56	1.950	1.950	(0.380)	35	0.50000	1.30(aAM)
	183 Isopropyl Acetate	43	5.570	5.570	(0.952)	2765	0.50000	0.08(aAM)
	184 n-Amyl acetate	43	9.197	9.197	(1.086)	2202	0.50000	1.21(aAM)
	185 Acetaldehyde	44	1.638	1.638	(0.319)	418	2.00000	(aM)
	186 n-Butyl acetate	43	7.969	7.969	(0.941)	1945	0.50000	(TaM)
	187 2-Etyhlhexyl Acrylate	55	12.319	12.319	(1.178)	66	0.50000	3.52(aAM)
	188 Tetrahydrothiophene	60	7.956	7.956	(0.940)	1247	0.50000	0.63(TaAM)
	189 sec-Butyl Ether	57	7.400	7.400	(0.874)	1596	0.50000	(TaM)

190 Isoprene	39	2.403	2.403 (0.468)	34	0.50000	0.45(TaAM)
191 2-Chloropropene	41	2.152	2.152 (0.419)	2105	0.50000	0.97(aAM)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.



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Sample Info: VSTD00.5;VSTD00.5;1;1
Purge Volume: 5.0
Column phase: DB624

Instrument: voa7.i
Operator: AP
Column diameter: 0.18

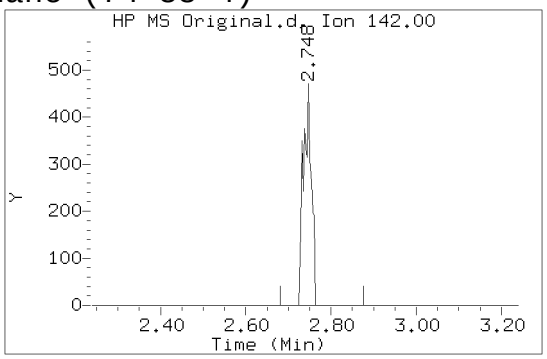
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Iodomethane (74-88-4)

Reason Code:

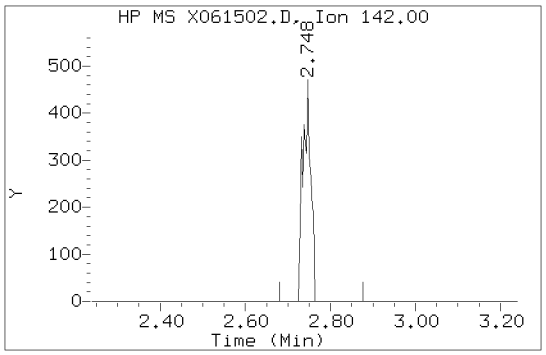
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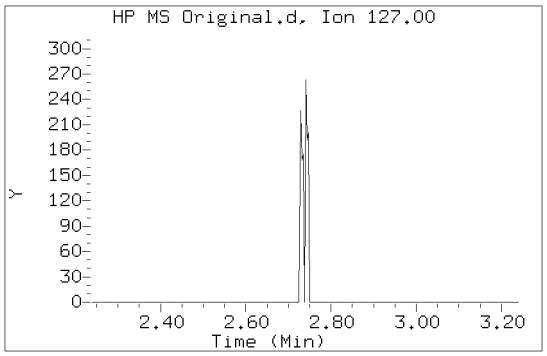
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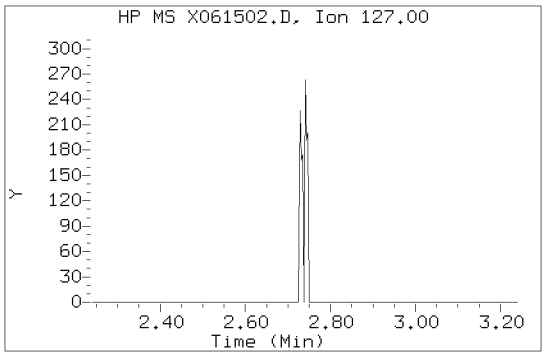
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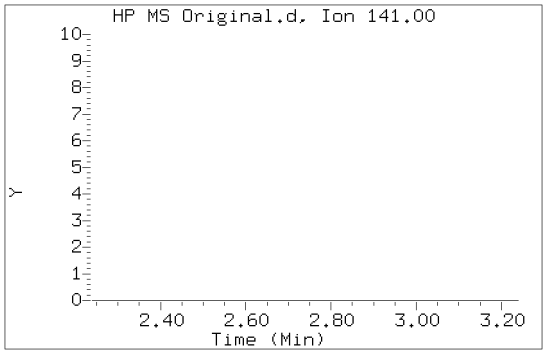
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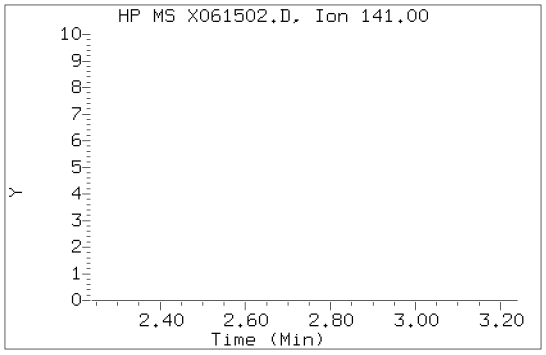
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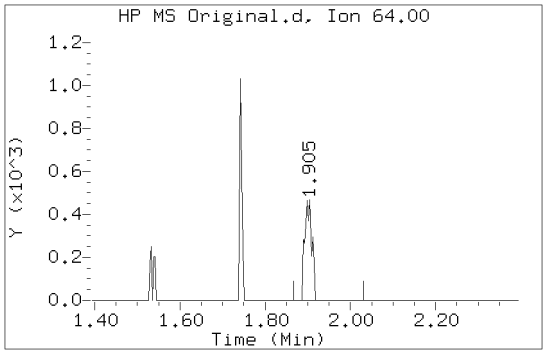


Chloroethane (75-00-3)

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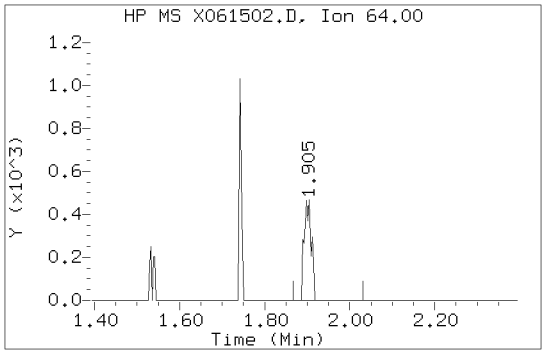
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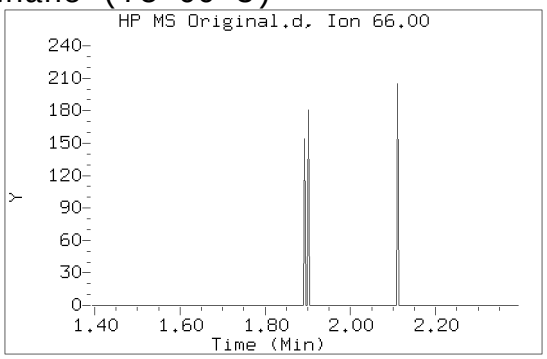
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LabSampID : VSTD00.5

Chloroethane (75-00-3)

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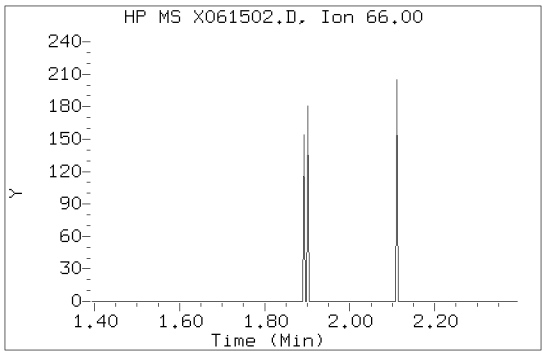
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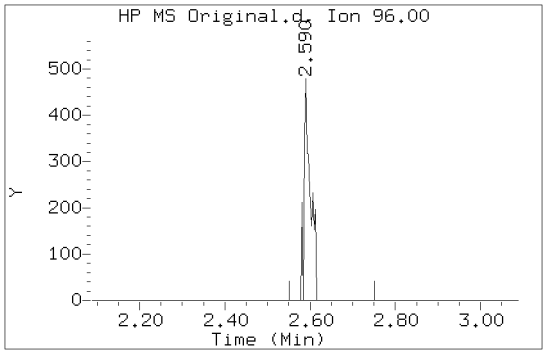


1,1-Dichloroethene (75-35-4)

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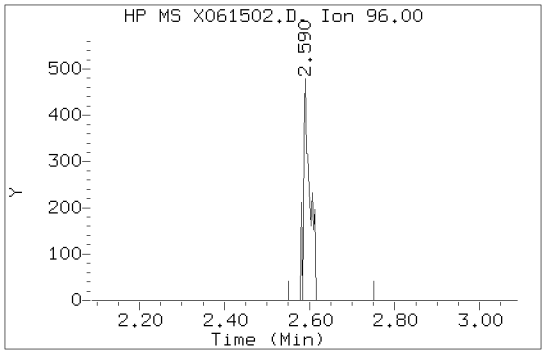
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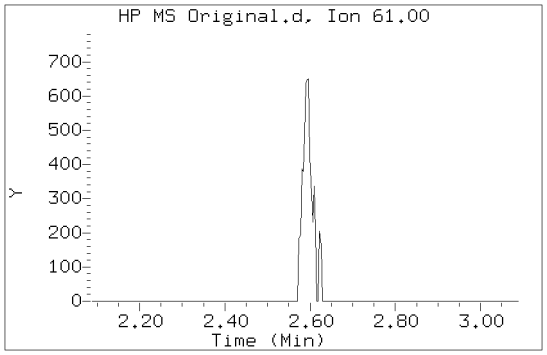
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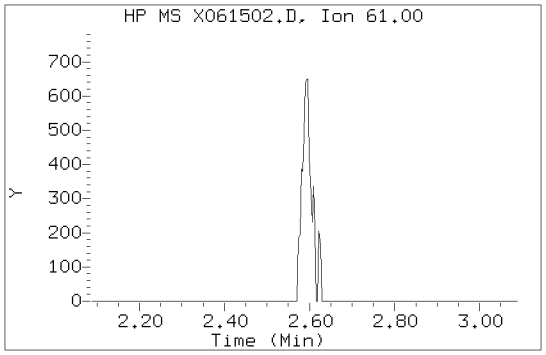
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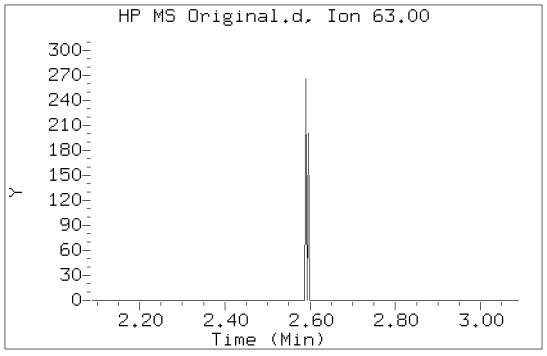
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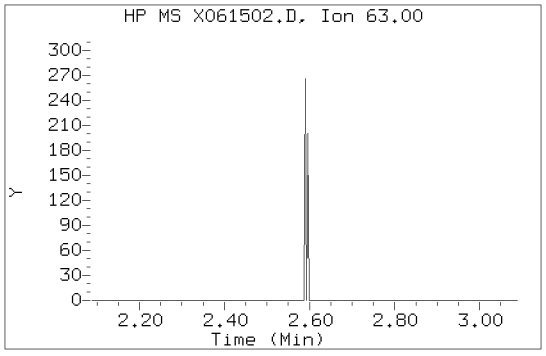
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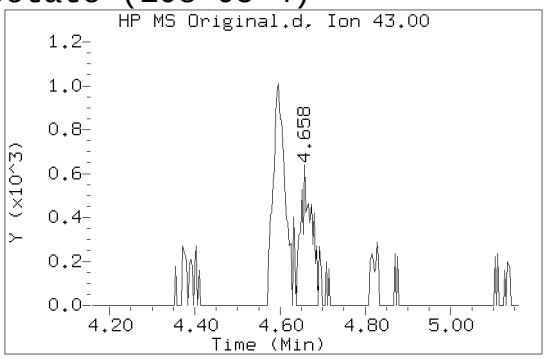
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Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

Vinyl Acetate (108-05-4)

Reason Code:

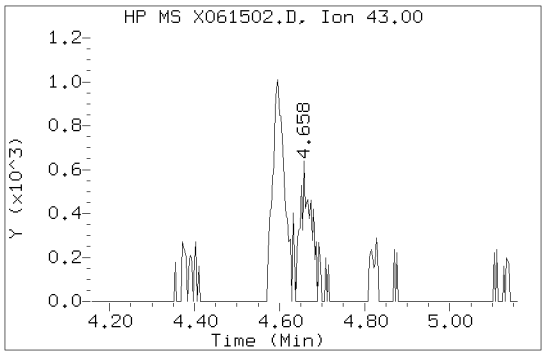
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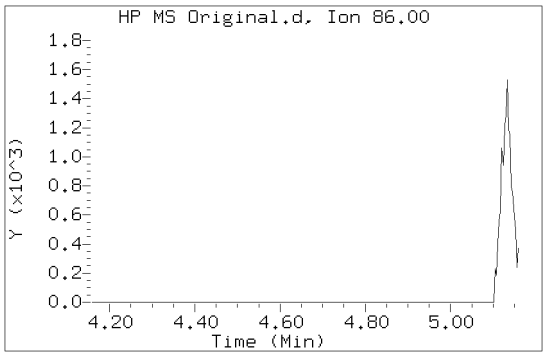
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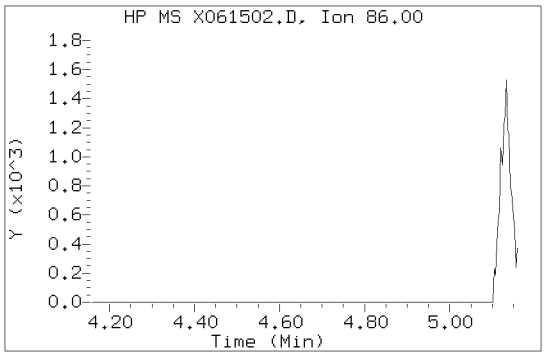
BEFORE

MASS
86
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
86
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

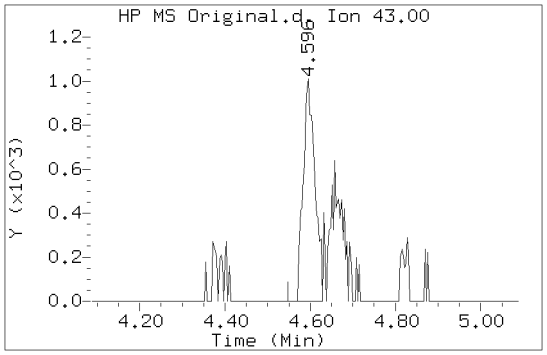


2-Butanone (78-93-3)

Reason Code:

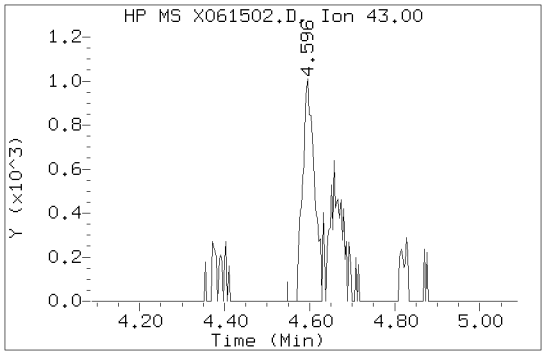
BEFORE

MASS
43
AREA
1922
HEIGHT
1010
12-Jul-2024
11:38
s
zaid



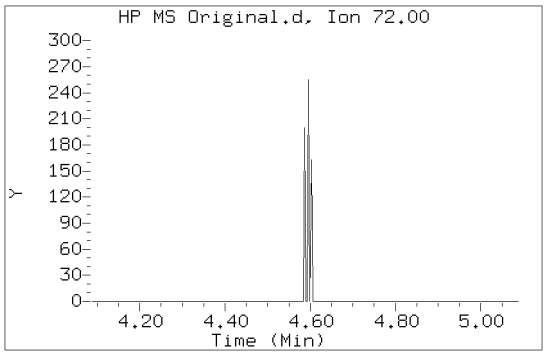
AFTER

MASS
43
AREA
1922
HEIGHT
1010
12-Jul-2024
11:38
s
zaid



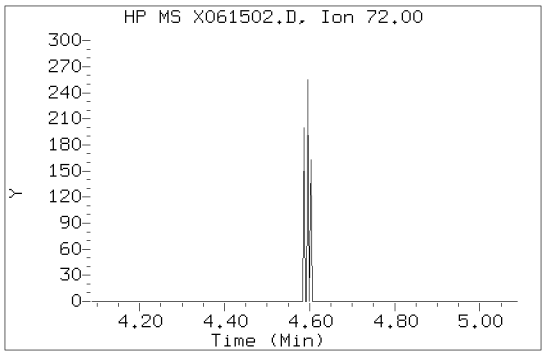
BEFORE

MASS
72
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
72
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



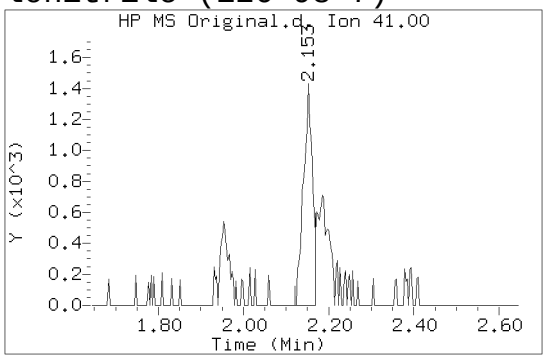
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Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

Methacrylonitrile (126-98-7)

Reason Code:

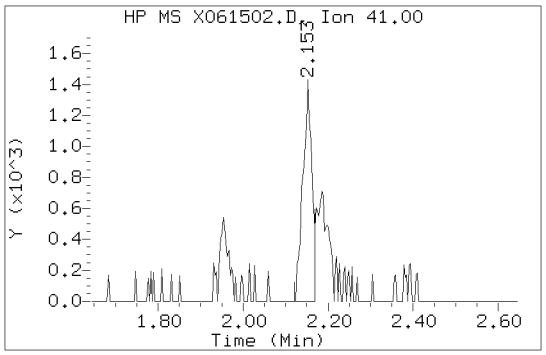
BEFORE

MASS
41
AREA
2105
HEIGHT
1431
12-Jul-2024
11:38
s
zaid



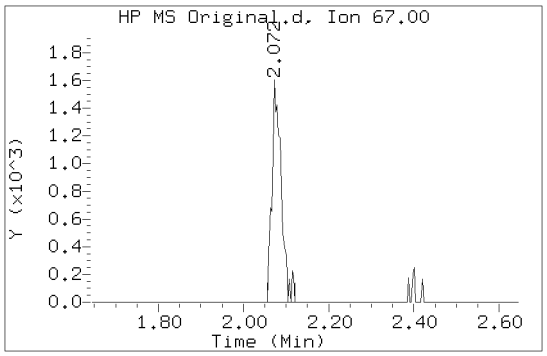
AFTER

MASS
41
AREA
2105
HEIGHT
1431
12-Jul-2024
11:38
s
zaid



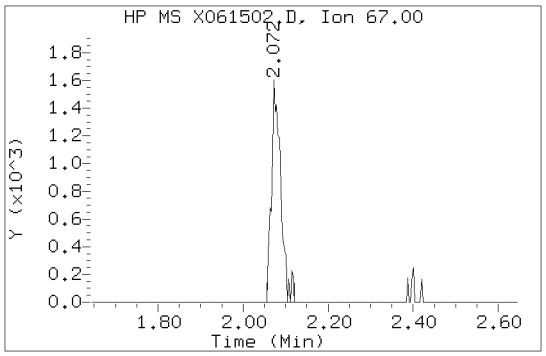
BEFORE

MASS
67
AREA
2428
HEIGHT
1604
12-Jul-2024
11:38
s
zaid



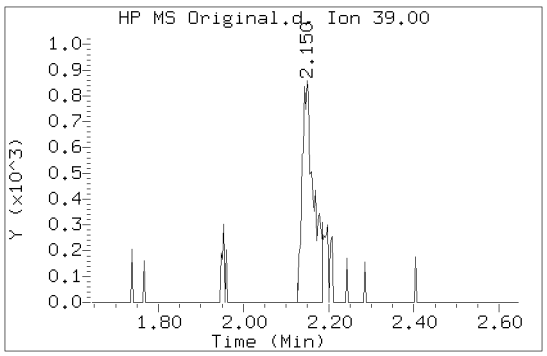
AFTER

MASS
67
AREA
2428
HEIGHT
1604
12-Jul-2024
11:38
s
zaid



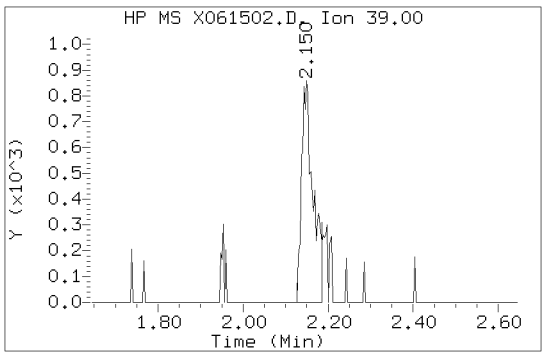
BEFORE

MASS
39
AREA
1624
HEIGHT
859
12-Jul-2024
11:38
s
zaid



AFTER

MASS
39
AREA
1624
HEIGHT
859
12-Jul-2024
11:38
s
zaid

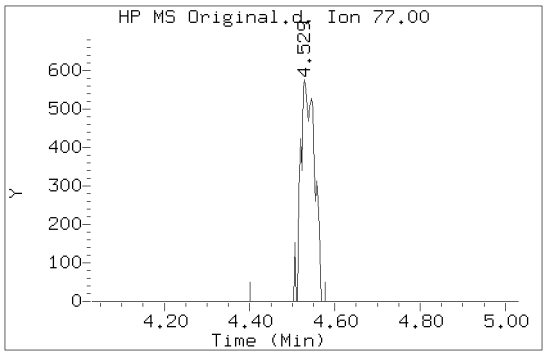


2,2-Dichloropropane (594-20-7)

Reason Code:

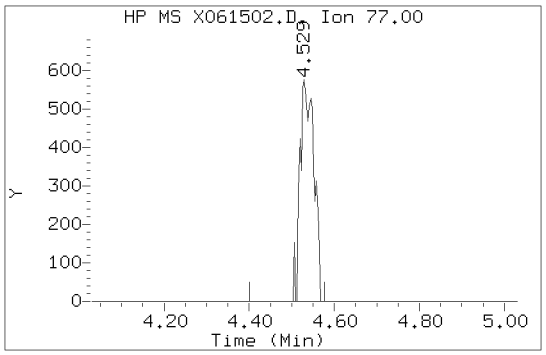
BEFORE

MASS
77
AREA
1306
HEIGHT
577
12-Jul-2024
11:38
s
zaid



AFTER

MASS
77
AREA
1306
HEIGHT
577
12-Jul-2024
11:38
s
zaid



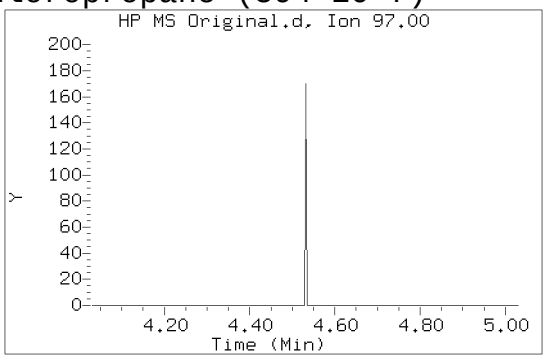
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061502.D
Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

2,2-Dichloropropane (594-20-7)

Reason Code:

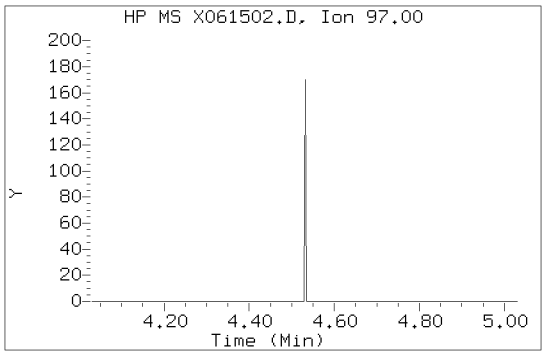
BEFORE

MASS
97
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
97
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

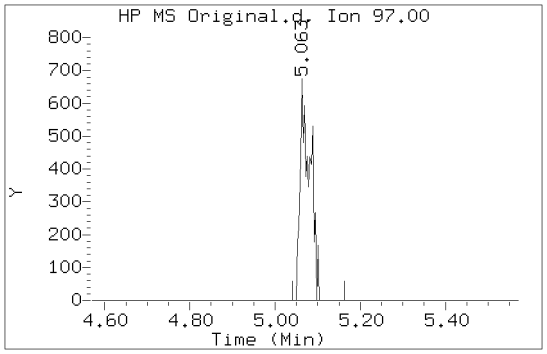


1,1,1-Trichloroethane (71-55-6)

Reason Code:

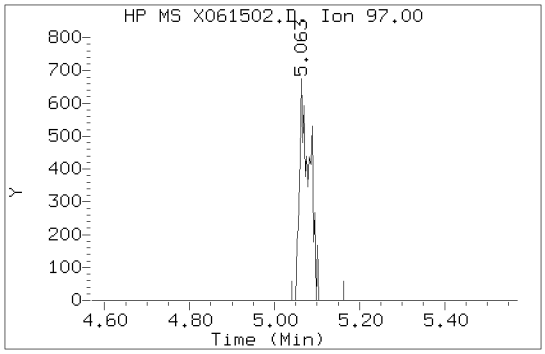
BEFORE

MASS
97
AREA
1107
HEIGHT
675
12-Jul-2024
11:38
s
zaid



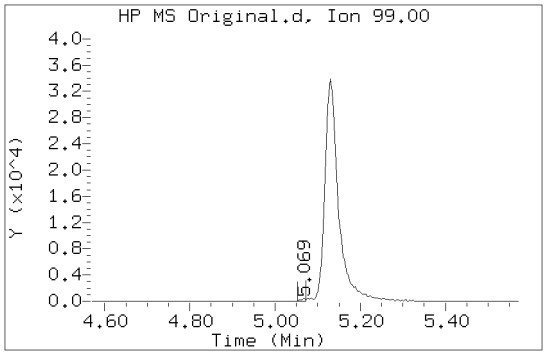
AFTER

MASS
97
AREA
1107
HEIGHT
675
12-Jul-2024
11:38
s
zaid



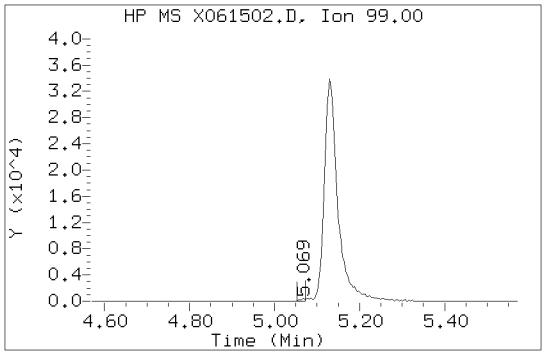
BEFORE

MASS
99
AREA
309
HEIGHT
386
12-Jul-2024
11:38
s
zaid



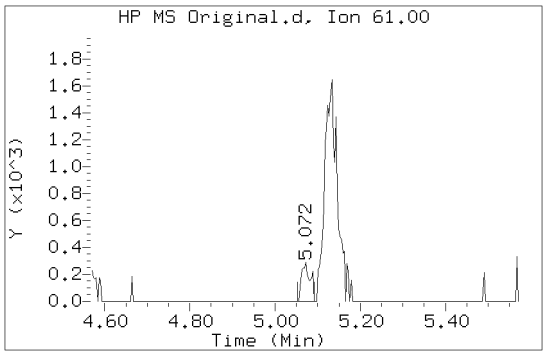
AFTER

MASS
99
AREA
309
HEIGHT
386
12-Jul-2024
11:38
s
zaid



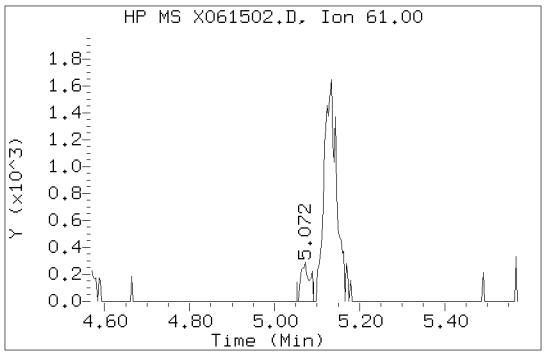
BEFORE

MASS
61
AREA
402
HEIGHT
289
12-Jul-2024
11:38
s
zaid



AFTER

MASS
61
AREA
402
HEIGHT
289
12-Jul-2024
11:38
s
zaid



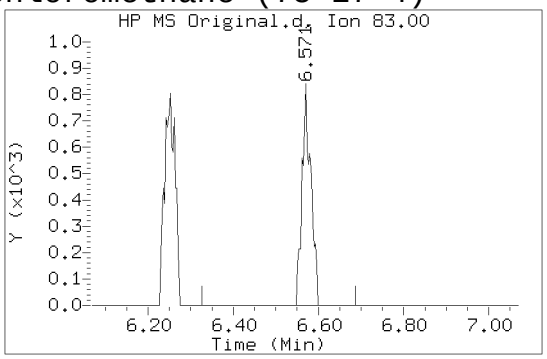
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Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

Bromodichloromethane (75-27-4)

Reason Code:

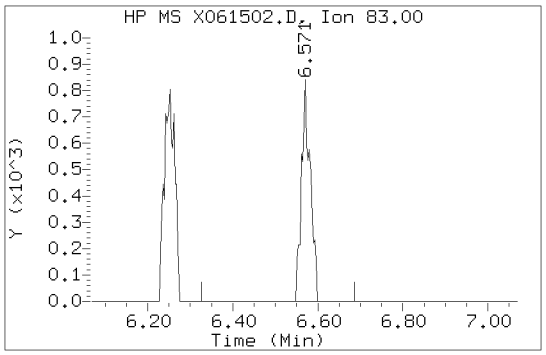
BEFORE

MASS
83
AREA
1216
HEIGHT
841
12-Jul-2024
11:38
s
zaid



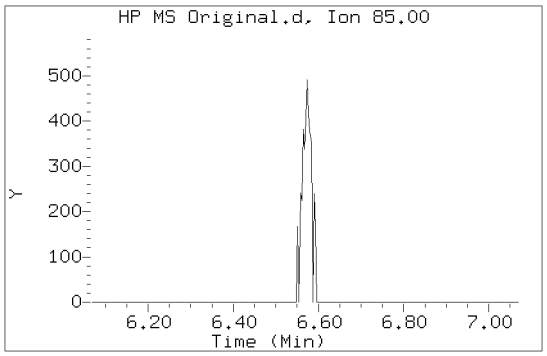
AFTER

MASS
83
AREA
1216
HEIGHT
841
12-Jul-2024
11:38
s
zaid



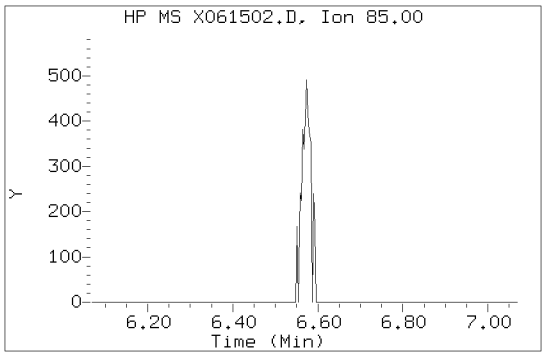
BEFORE

MASS
85
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



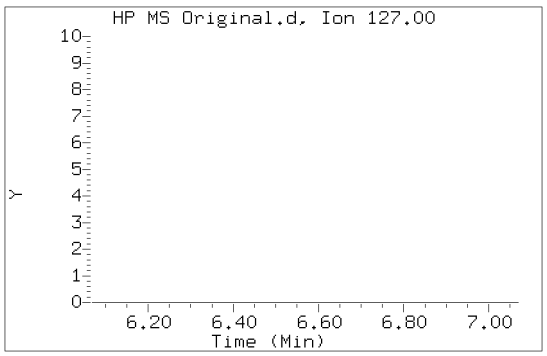
AFTER

MASS
85
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



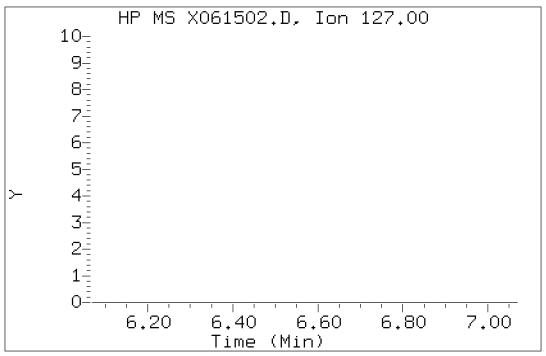
BEFORE

MASS
127
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
127
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

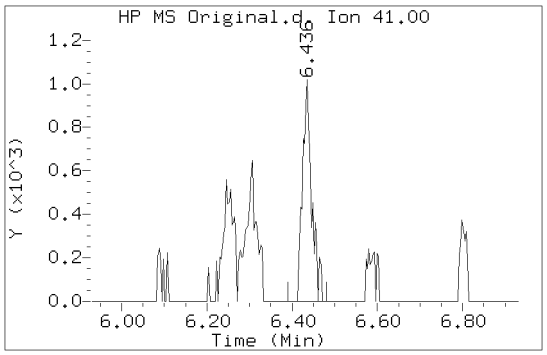


Methyl Methacrylate (80-62-6)

Reason Code:

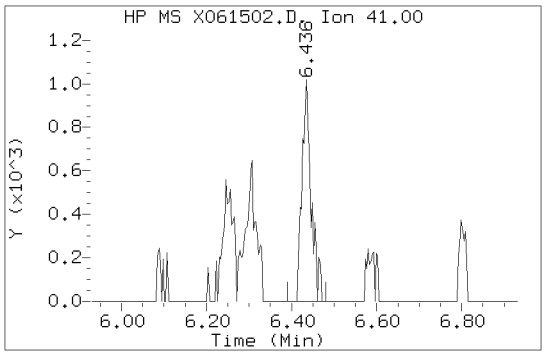
BEFORE

MASS
41
AREA
1533
HEIGHT
1019
12-Jul-2024
11:38
s
zaid



AFTER

MASS
41
AREA
1533
HEIGHT
1019
12-Jul-2024
11:38
s
zaid

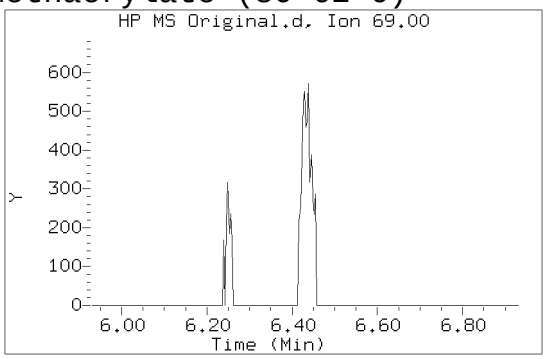


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Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

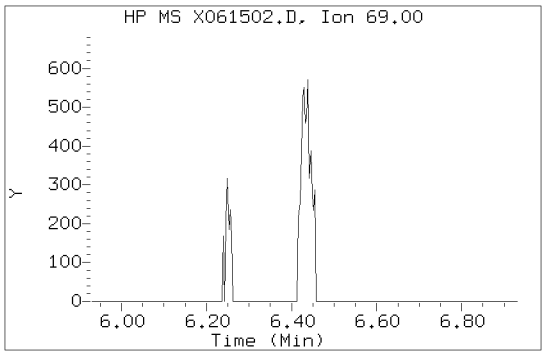
Methyl Methacrylate (80-62-6)

Reason Code:

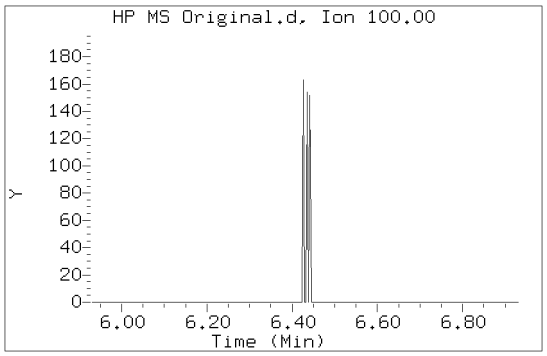
BEFORE
MASS
69
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



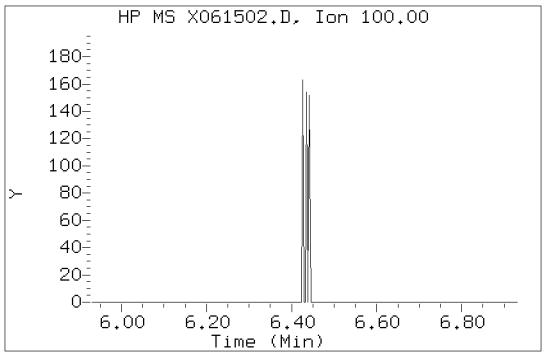
AFTER
MASS
69
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
100
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



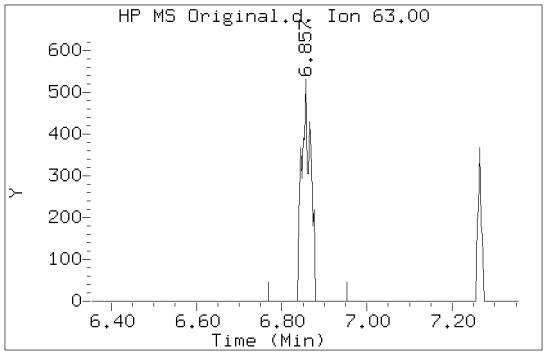
AFTER
MASS
100
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



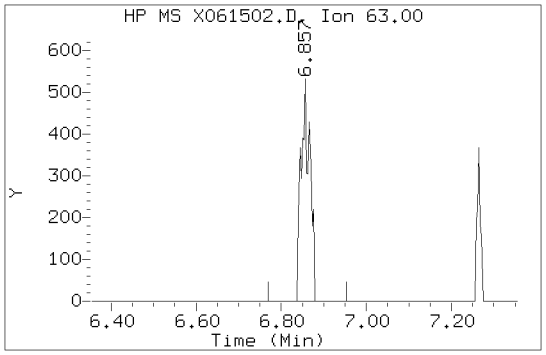
2-Chloroethylvinyl ether (110-75-8)

Reason Code:

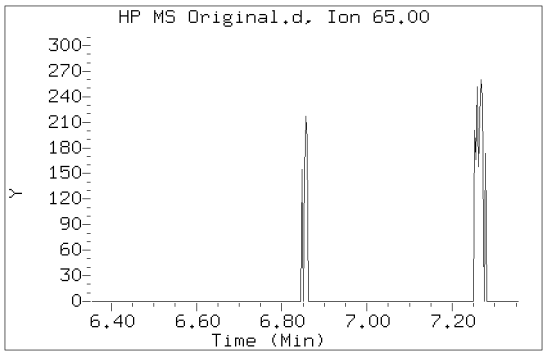
BEFORE
MASS
63
AREA
758
HEIGHT
532
12-Jul-2024
11:38
s
zaid



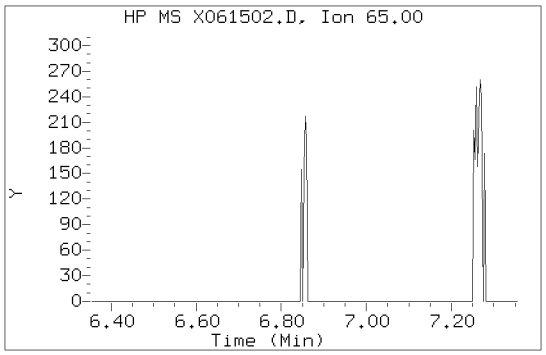
AFTER
MASS
63
AREA
758
HEIGHT
532
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
65
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER
MASS
65
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



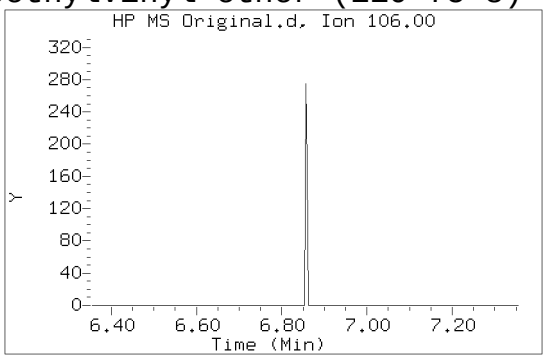
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061502.D
Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

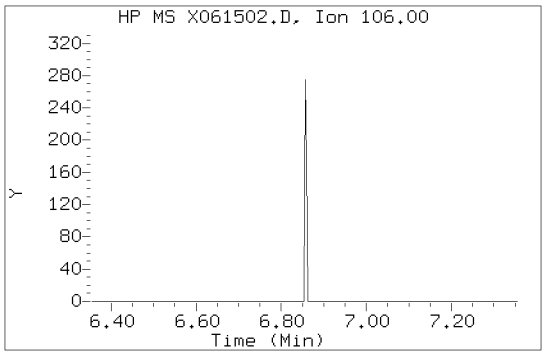
BEFORE

MASS
106
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
106
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

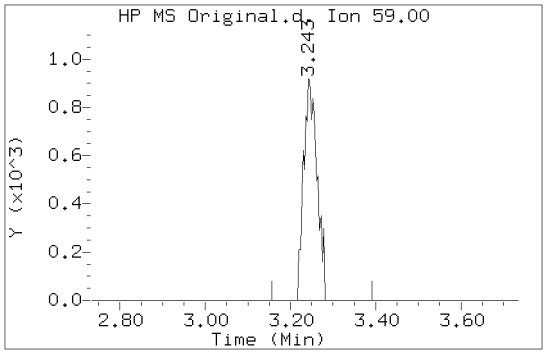


tert-Butyl formate (762-75-4)

Reason Code:

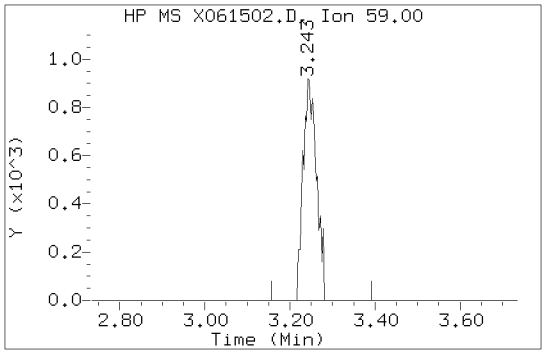
BEFORE

MASS
59
AREA
2017
HEIGHT
919
12-Jul-2024
11:38
s
zaid



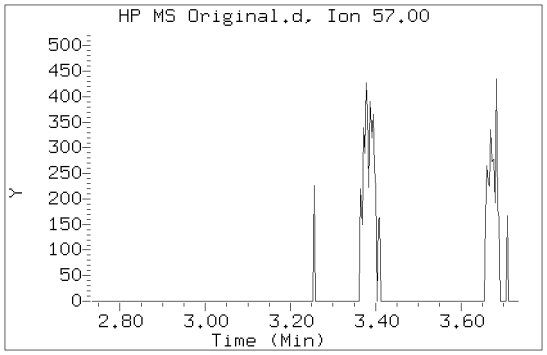
AFTER

MASS
59
AREA
2017
HEIGHT
919
12-Jul-2024
11:38
s
zaid



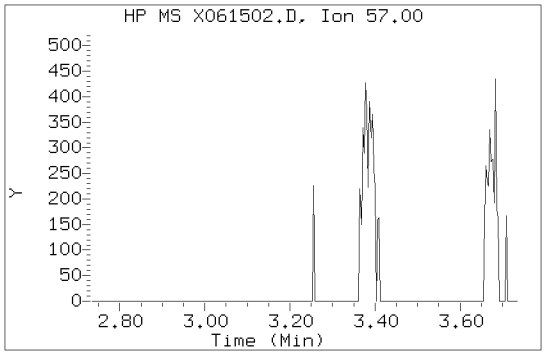
BEFORE

MASS
57
AREA
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HEIGHT
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12-Jul-2024
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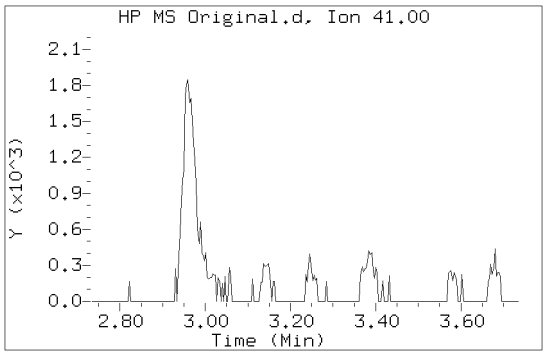
AFTER

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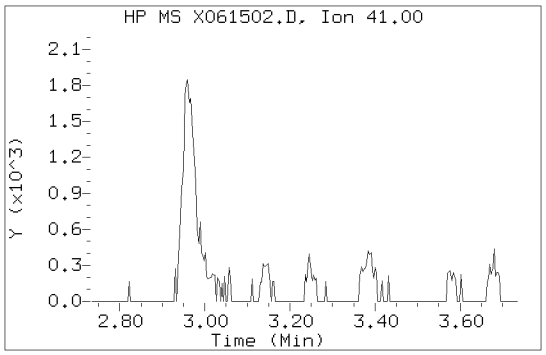
BEFORE

MASS
41
AREA
0
HEIGHT
0
12-Jul-2024
11:38
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zaid



AFTER

MASS
41
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



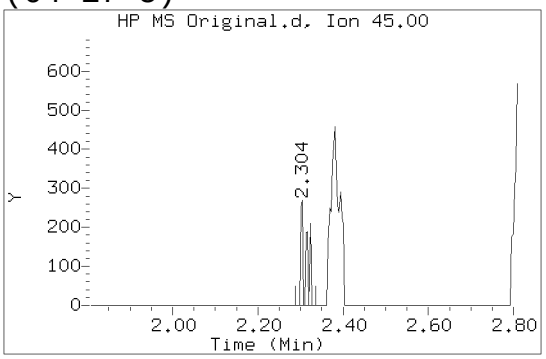
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Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

Ethanol (64-17-5)

Reason Code:

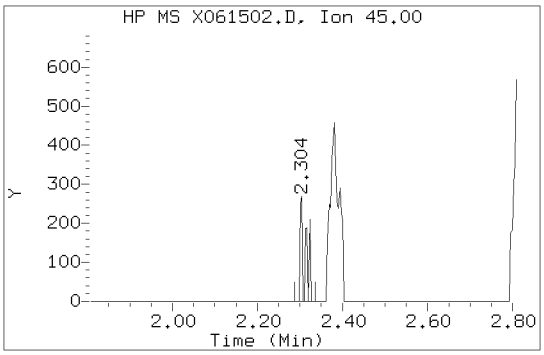
BEFORE

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45
AREA
213
HEIGHT
269
12-Jul-2024
11:38
s
zaid



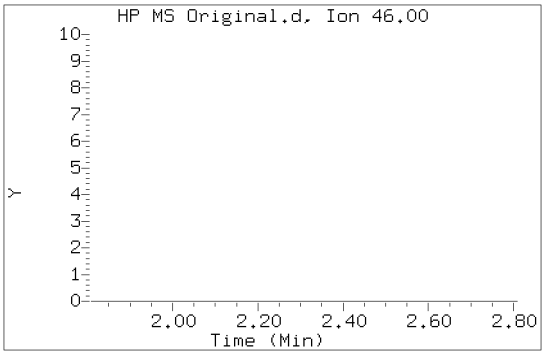
AFTER

MASS
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AREA
213
HEIGHT
269
12-Jul-2024
11:38
s
zaid



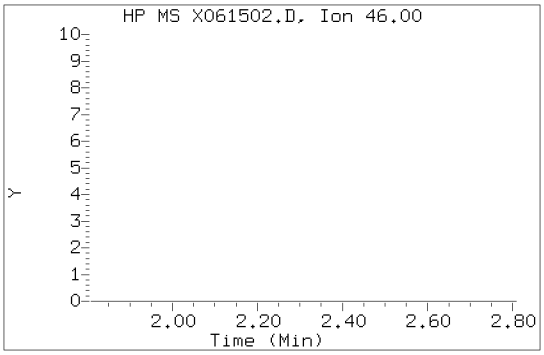
BEFORE

MASS
46
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



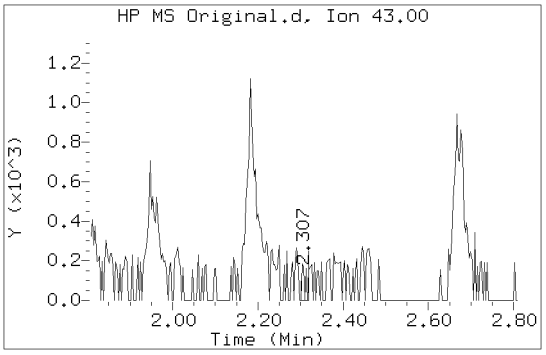
AFTER

MASS
46
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0
HEIGHT
0
12-Jul-2024
11:38
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zaid



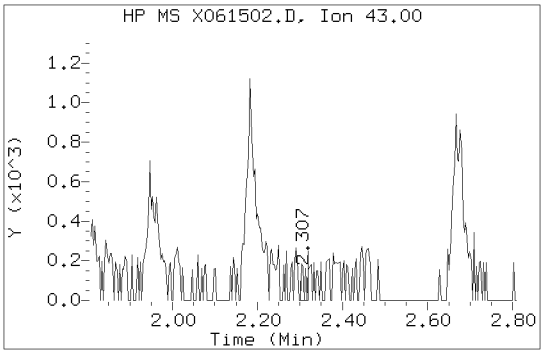
BEFORE

MASS
43
AREA
128
HEIGHT
168
12-Jul-2024
11:38
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zaid



AFTER

MASS
43
AREA
128
HEIGHT
168
12-Jul-2024
11:38
s
zaid

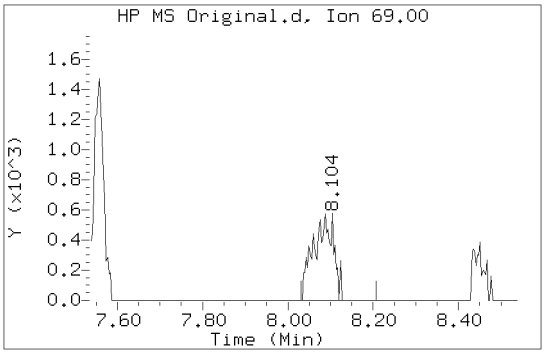


Ethyl Methacrylate (97-63-2)

Reason Code:

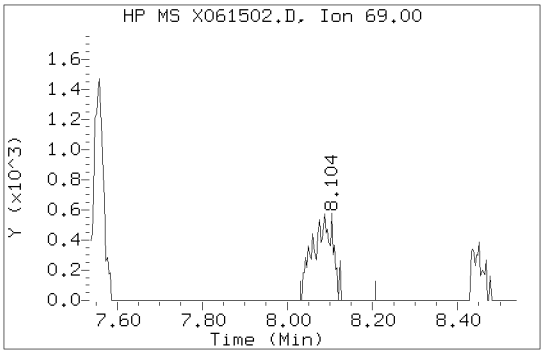
BEFORE

MASS
69
AREA
1845
HEIGHT
579
12-Jul-2024
11:38
s
zaid



AFTER

MASS
69
AREA
1845
HEIGHT
579
12-Jul-2024
11:38
s
zaid



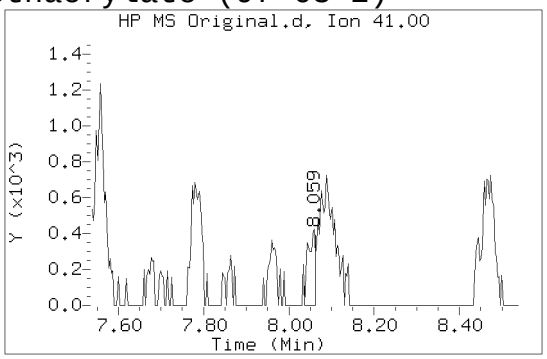
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061502.D
Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

Ethyl Methacrylate (97-63-2)

Reason Code:

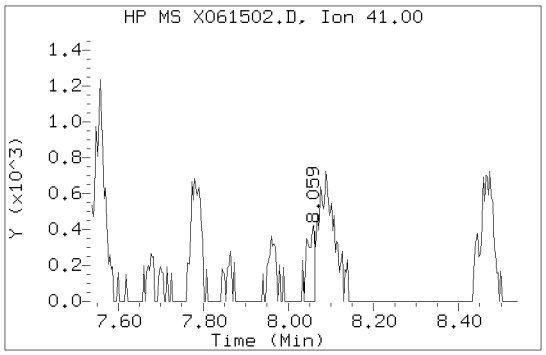
BEFORE

MASS
41
AREA
493
HEIGHT
424
12-Jul-2024
11:38
s
zaid



AFTER

MASS
41
AREA
493
HEIGHT
424
12-Jul-2024
11:38
s
zaid

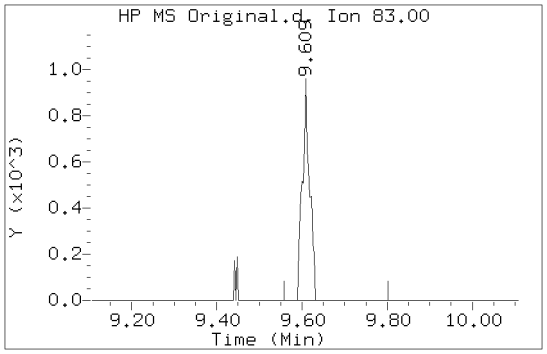


1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

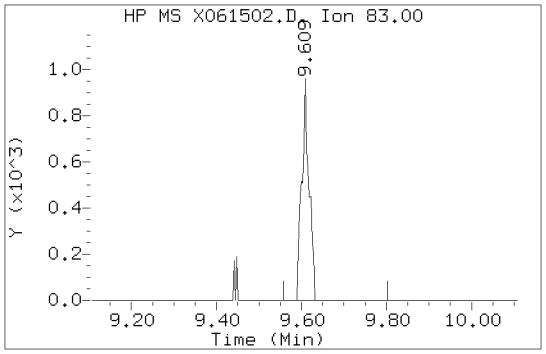
BEFORE

MASS
83
AREA
1141
HEIGHT
960
12-Jul-2024
11:38
s
zaid



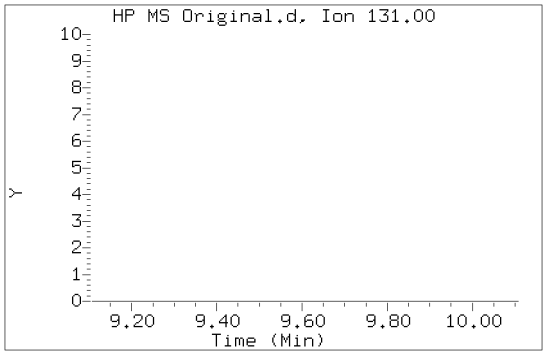
AFTER

MASS
83
AREA
1141
HEIGHT
960
12-Jul-2024
11:38
s
zaid



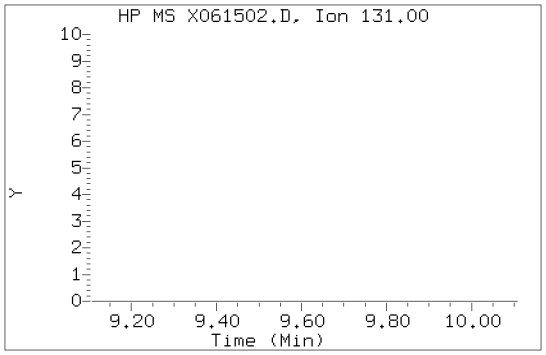
BEFORE

MASS
131
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



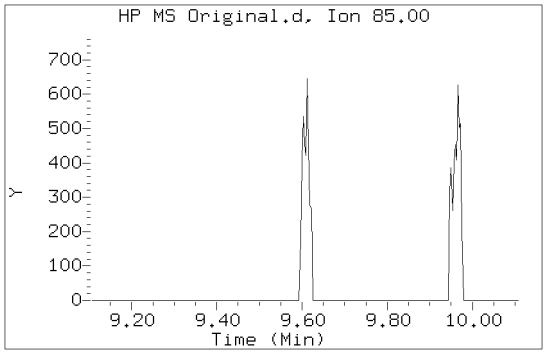
AFTER

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11:38
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zaid



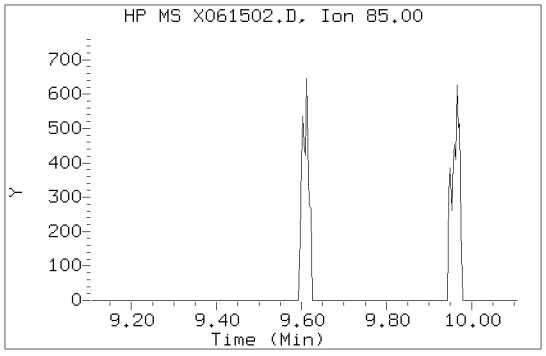
BEFORE

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12-Jul-2024
11:38
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zaid



AFTER

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85
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



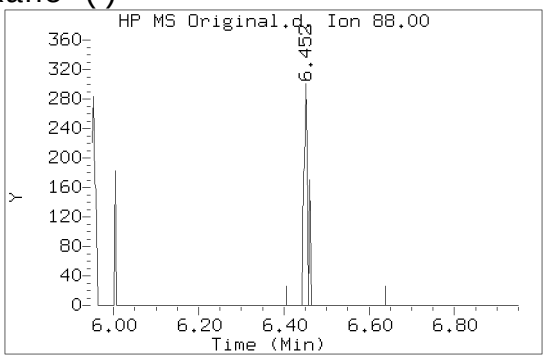
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Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

1,4-Dioxane ()

Reason Code:

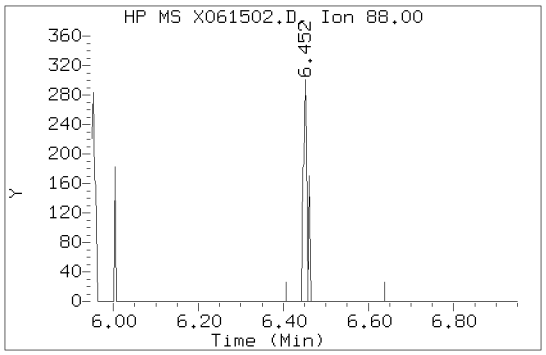
BEFORE

MASS
88
AREA
203
HEIGHT
301
12-Jul-2024
11:38
s
zaid



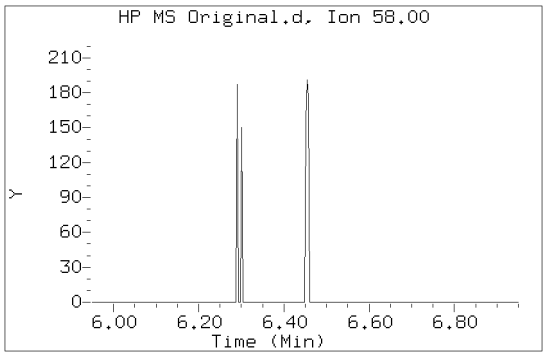
AFTER

MASS
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AREA
203
HEIGHT
301
12-Jul-2024
11:38
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zaid



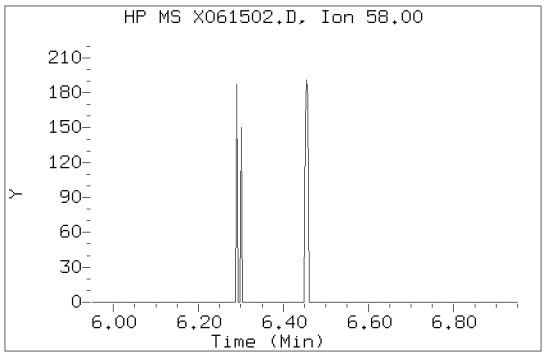
BEFORE

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58
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416
HEIGHT
335
12-Jul-2024
11:38
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zaid



AFTER

MASS
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AREA
416
HEIGHT
335
12-Jul-2024
11:38
s
zaid

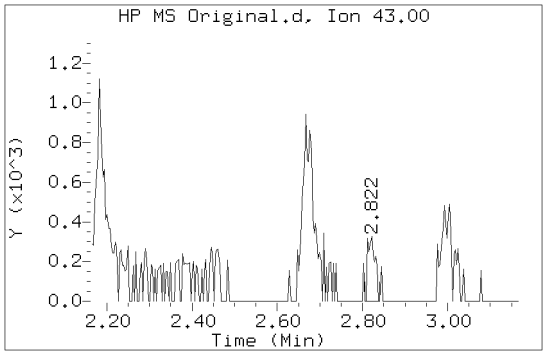


Methyl acetate (79-20-9)

Reason Code:

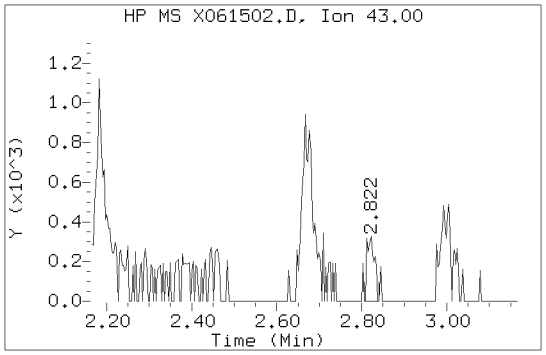
BEFORE

MASS
43
AREA
388
HEIGHT
329
12-Jul-2024
11:38
s
zaid



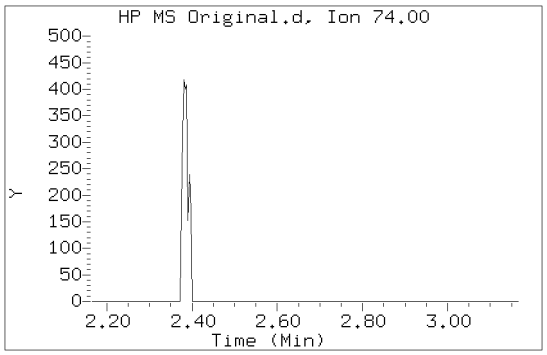
AFTER

MASS
43
AREA
388
HEIGHT
329
12-Jul-2024
11:38
s
zaid



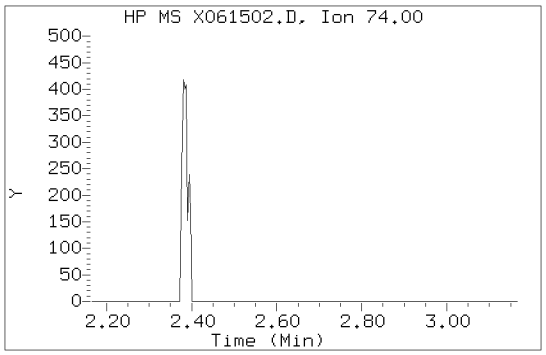
BEFORE

MASS
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12-Jul-2024
11:38
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zaid



AFTER

MASS
74
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



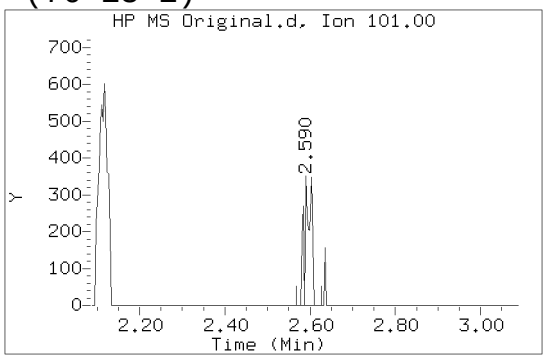
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061502.D
Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

Freon TF (76-13-1)

Reason Code:

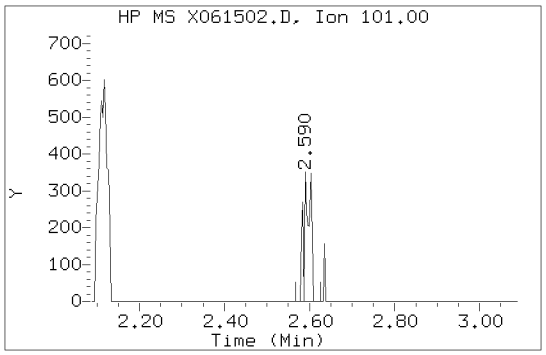
BEFORE

MASS
101
AREA
380
HEIGHT
351
12-Jul-2024
11:38
s
zaid



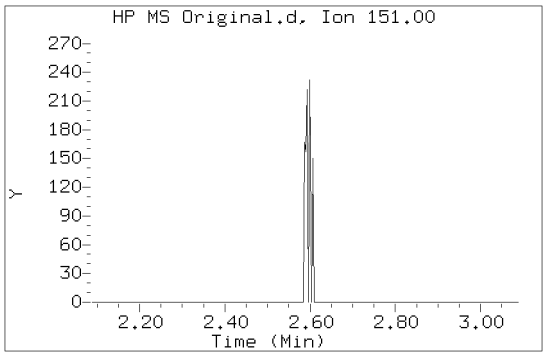
AFTER

MASS
101
AREA
380
HEIGHT
351
12-Jul-2024
11:38
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zaid



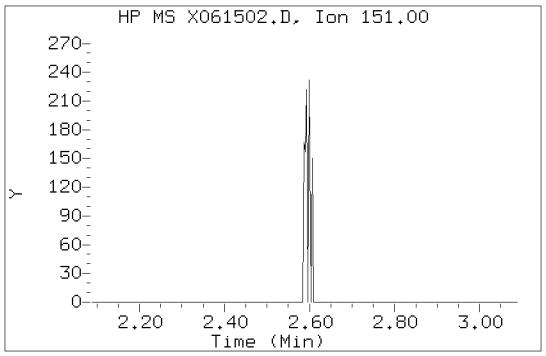
BEFORE

MASS
151
AREA
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HEIGHT
0
12-Jul-2024
11:38
s
zaid



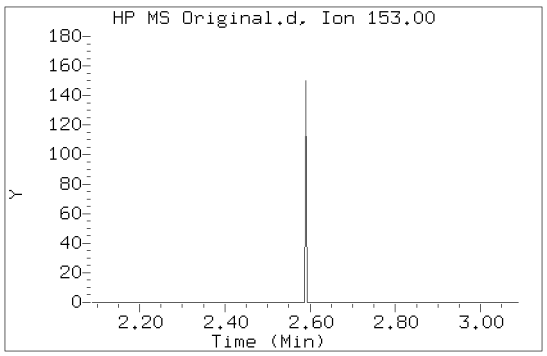
AFTER

MASS
151
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



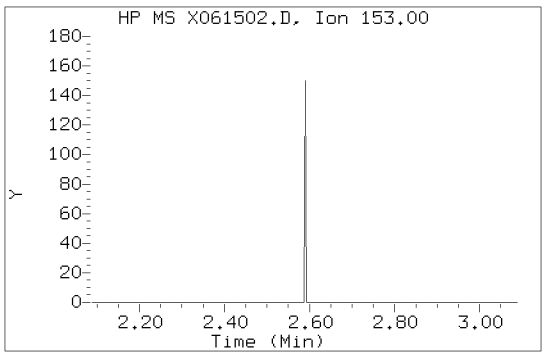
BEFORE

MASS
153
AREA
0
HEIGHT
0
12-Jul-2024
11:38
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zaid



AFTER

MASS
153
AREA
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HEIGHT
0
12-Jul-2024
11:38
s
zaid

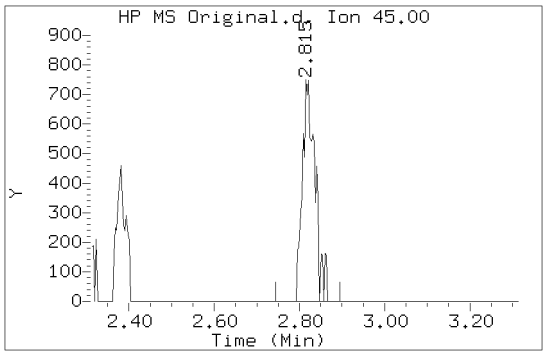


Isopropyl alcohol (67-63-0)

Reason Code:

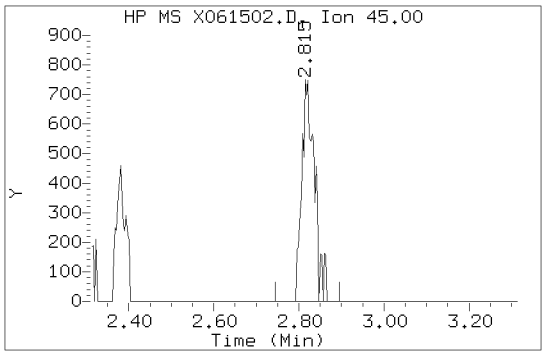
BEFORE

MASS
45
AREA
1589
HEIGHT
750
12-Jul-2024
11:38
s
zaid



AFTER

MASS
45
AREA
1589
HEIGHT
750
12-Jul-2024
11:38
s
zaid



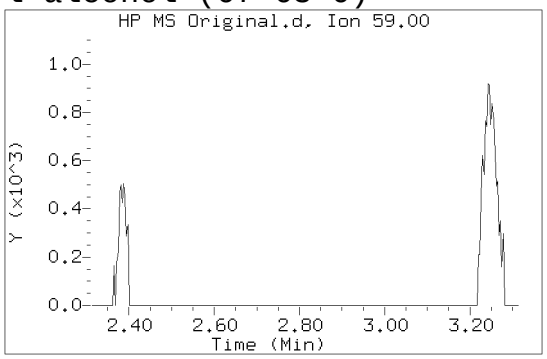
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061502.D
Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

Isopropyl alcohol (67-63-0)

Reason Code:

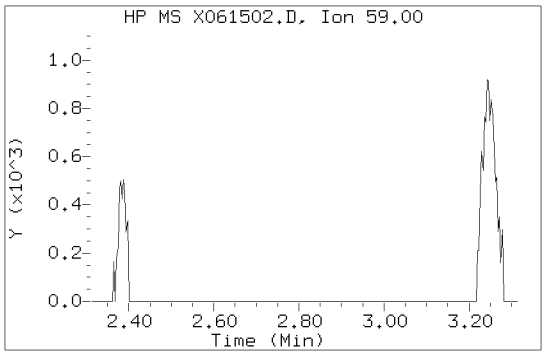
BEFORE

MASS
59
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
59
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

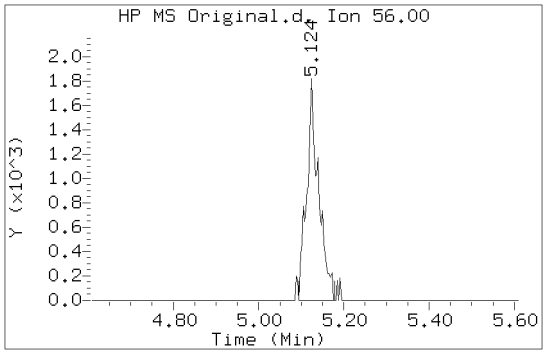


Cyclohexane (110-82-7)

Reason Code:

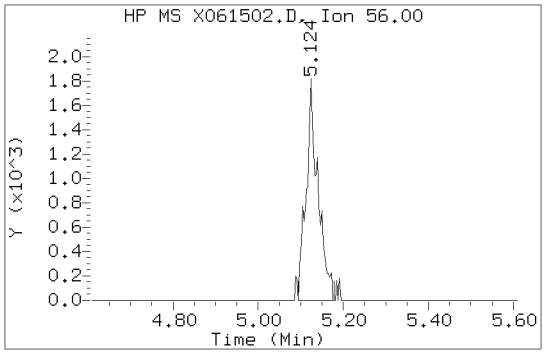
BEFORE

MASS
56
AREA
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HEIGHT
1820
12-Jul-2024
11:38
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zaid



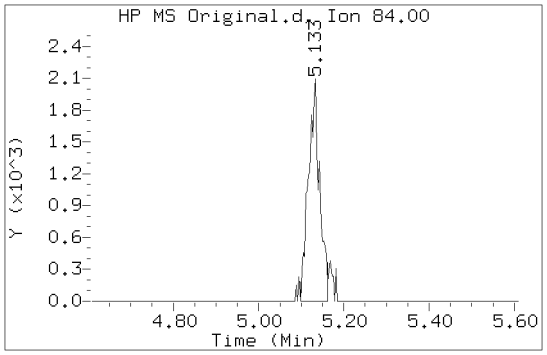
AFTER

MASS
56
AREA
3487
HEIGHT
1820
12-Jul-2024
11:38
s
zaid



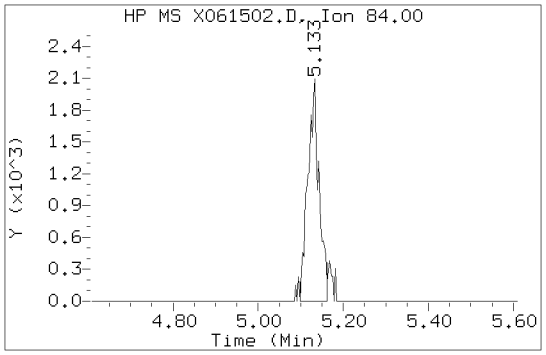
BEFORE

MASS
84
AREA
3806
HEIGHT
2094
12-Jul-2024
11:38
s
zaid



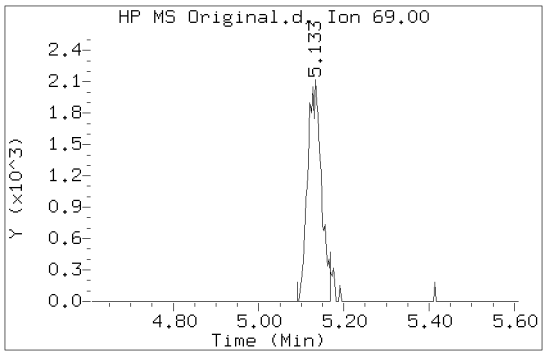
AFTER

MASS
84
AREA
3806
HEIGHT
2094
12-Jul-2024
11:38
s
zaid



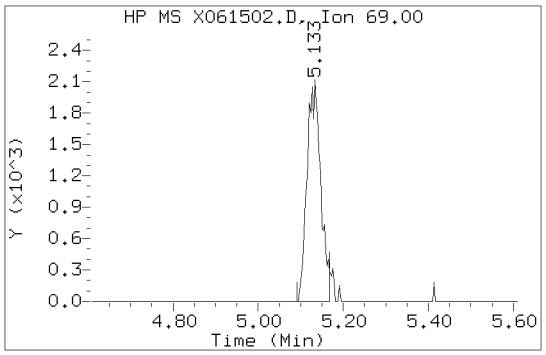
BEFORE

MASS
69
AREA
4717
HEIGHT
2119
12-Jul-2024
11:38
s
zaid



AFTER

MASS
69
AREA
4717
HEIGHT
2119
12-Jul-2024
11:38
s
zaid

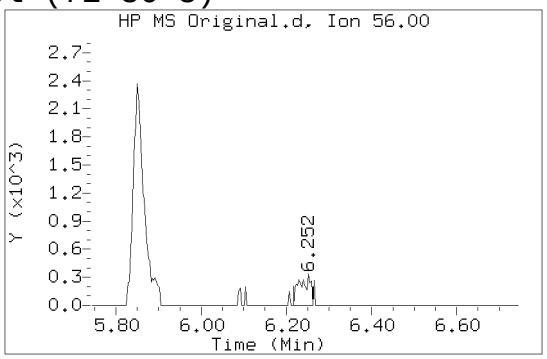


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Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

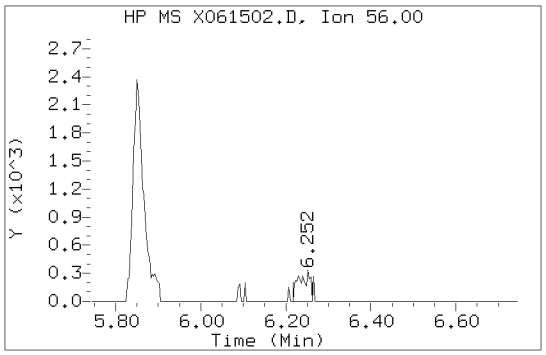
n-Butanol (71-36-3)

Reason Code:

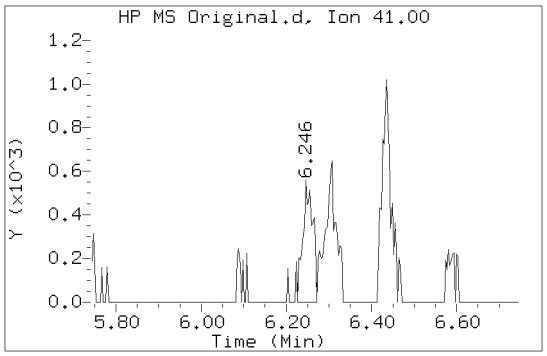
BEFORE
MASS
56
AREA
574
HEIGHT
334
12-Jul-2024
11:38
s
zaid



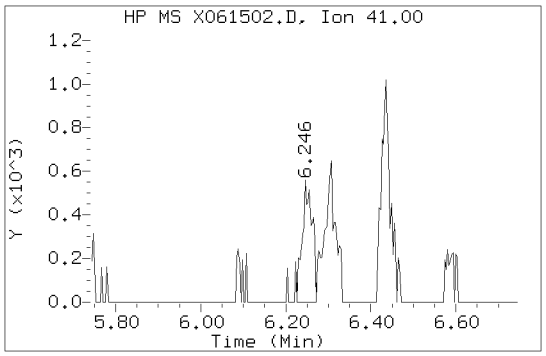
AFTER
MASS
56
AREA
574
HEIGHT
334
12-Jul-2024
11:38
s
zaid



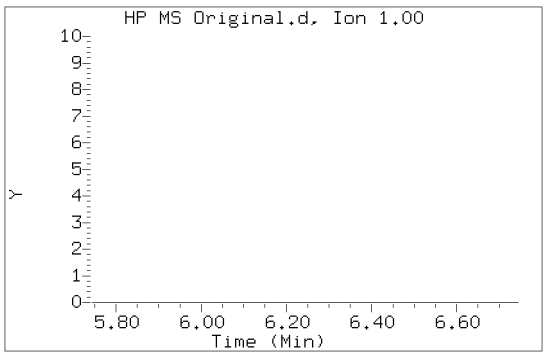
BEFORE
MASS
41
AREA
901
HEIGHT
561
12-Jul-2024
11:38
s
zaid



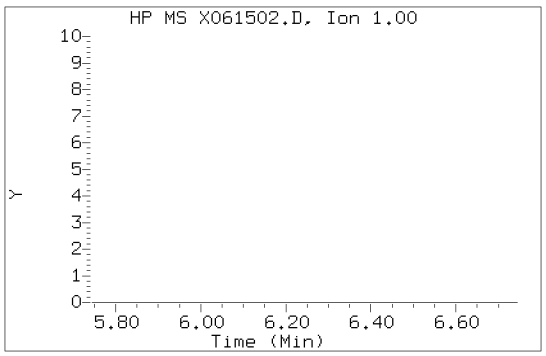
AFTER
MASS
41
AREA
901
HEIGHT
561
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
1
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



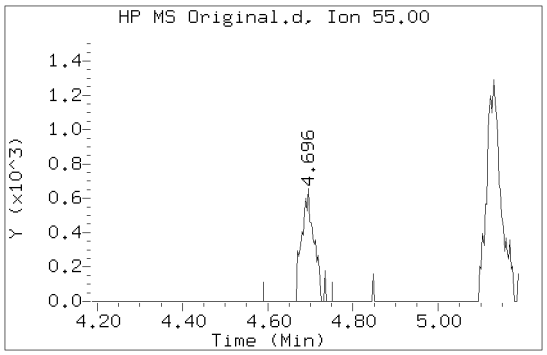
AFTER
MASS
1
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



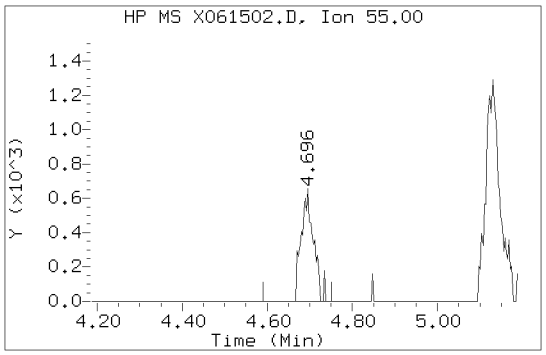
Methyl Acrylate (96-33-3)

Reason Code:

BEFORE
MASS
55
AREA
1317
HEIGHT
657
12-Jul-2024
11:38
s
zaid



AFTER
MASS
55
AREA
1317
HEIGHT
657
12-Jul-2024
11:38
s
zaid



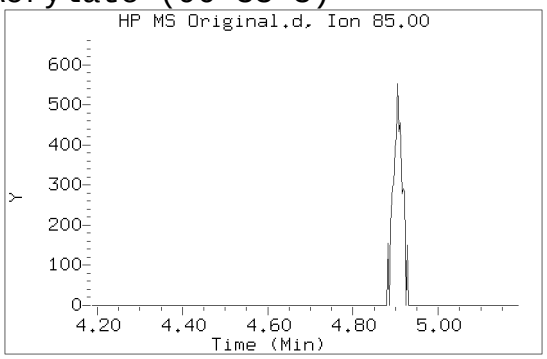
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061502.D
Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

Methyl Acrylate (96-33-3)

Reason Code:

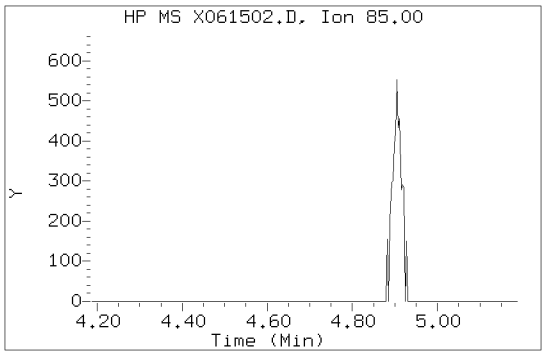
BEFORE

MASS
85
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
85
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

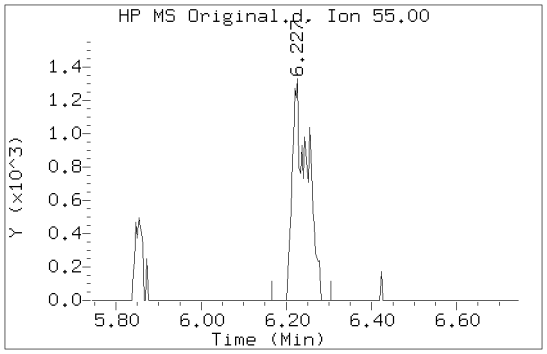


Ethyl Acrylate (140-88-5)

Reason Code:

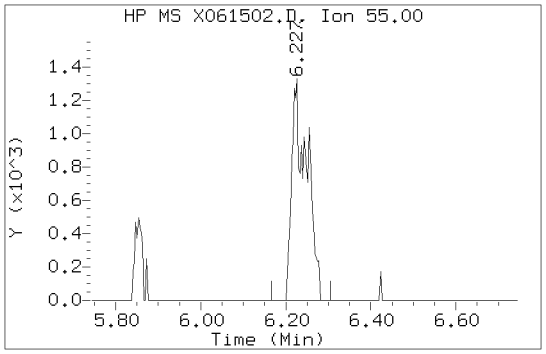
BEFORE

MASS
55
AREA
3293
HEIGHT
1330
12-Jul-2024
11:38
s
zaid



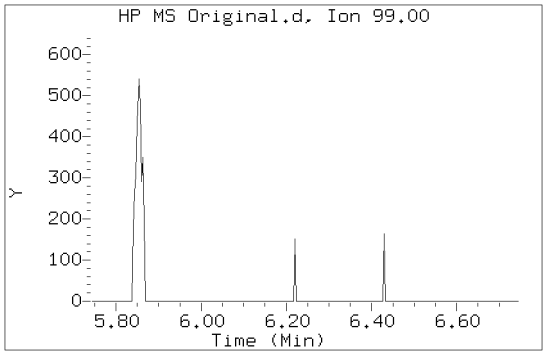
AFTER

MASS
55
AREA
3293
HEIGHT
1330
12-Jul-2024
11:38
s
zaid



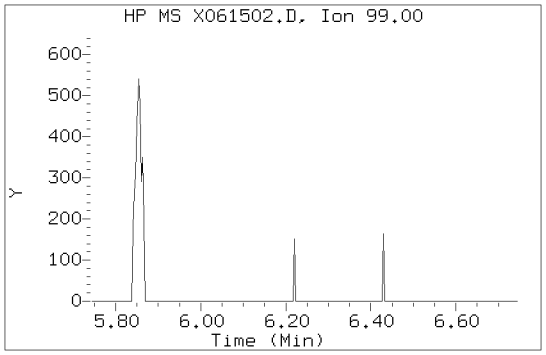
BEFORE

MASS
99
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
99
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

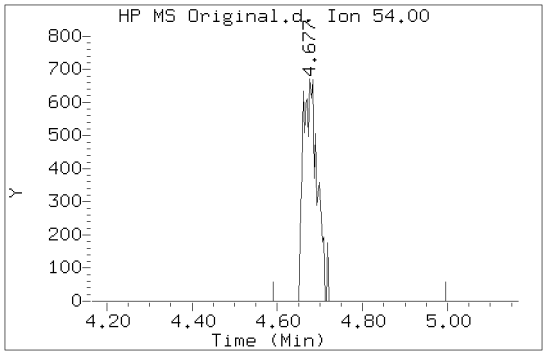


Propionitrile (107-12-0)

Reason Code:

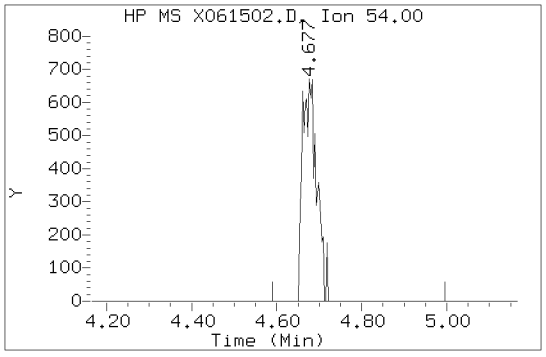
BEFORE

MASS
54
AREA
1567
HEIGHT
671
12-Jul-2024
11:38
s
zaid



AFTER

MASS
54
AREA
1567
HEIGHT
671
12-Jul-2024
11:38
s
zaid



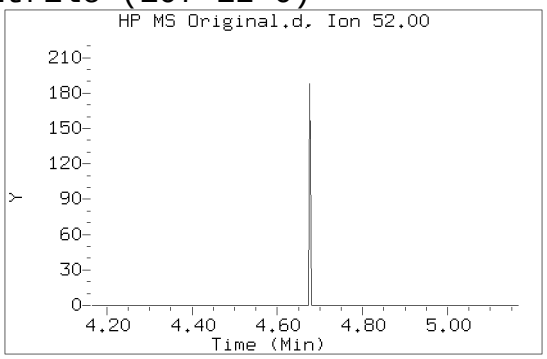
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061502.D
Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

Propionitrile (107-12-0)

Reason Code:

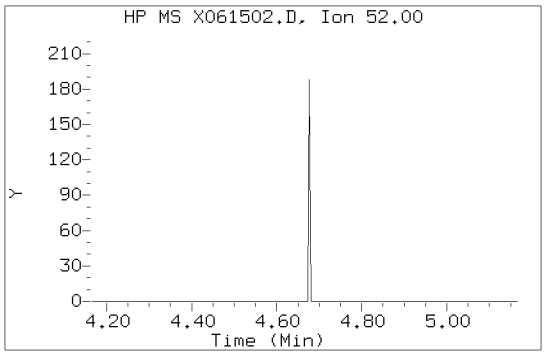
BEFORE

MASS
52
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



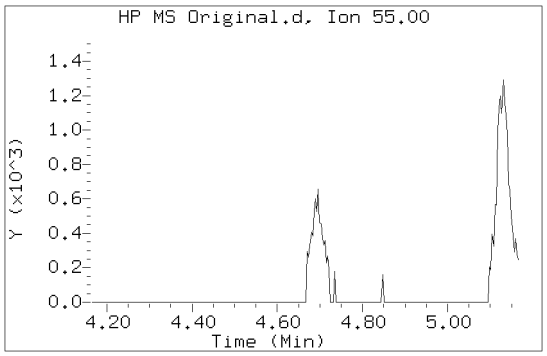
AFTER

MASS
52
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



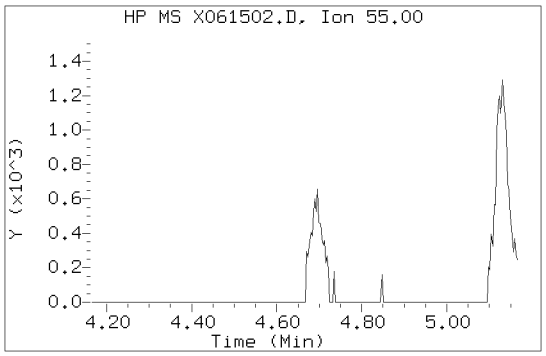
BEFORE

MASS
55
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
55
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

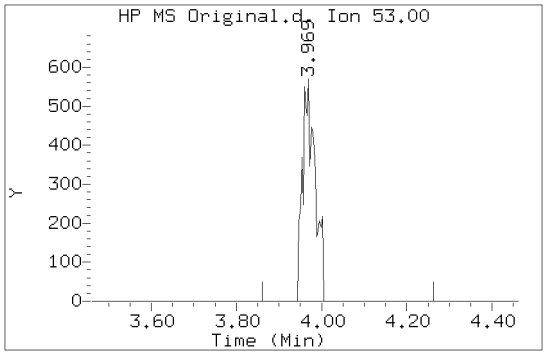


Chloroprene (126-99-8)

Reason Code:

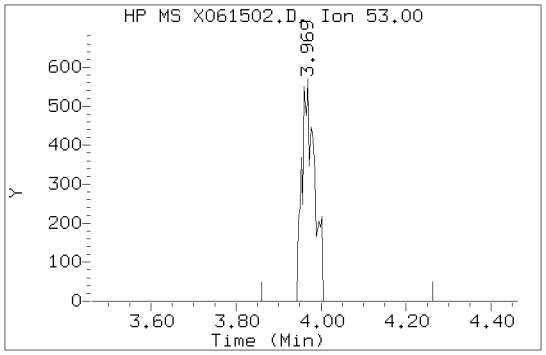
BEFORE

MASS
53
AREA
1169
HEIGHT
570
12-Jul-2024
11:38
s
zaid



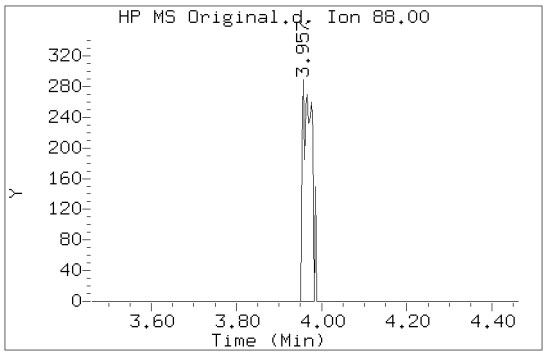
AFTER

MASS
53
AREA
1169
HEIGHT
570
12-Jul-2024
11:38
s
zaid



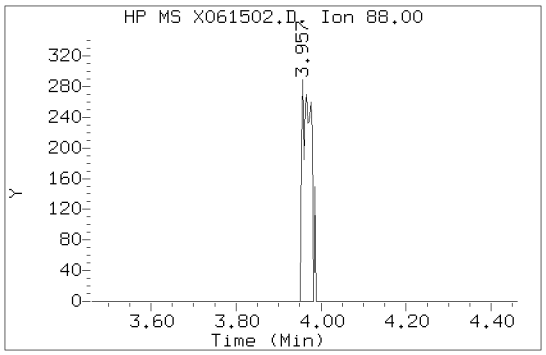
BEFORE

MASS
88
AREA
414
HEIGHT
289
12-Jul-2024
11:38
s
zaid



AFTER

MASS
88
AREA
414
HEIGHT
289
12-Jul-2024
11:38
s
zaid

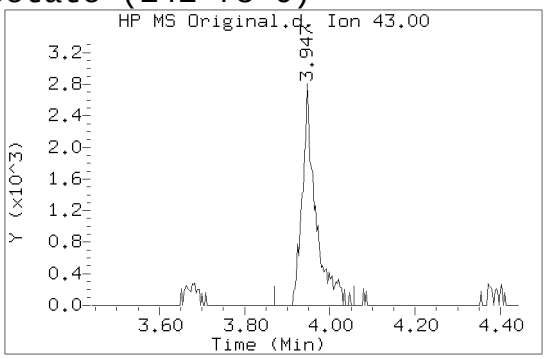


Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061502.D
Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

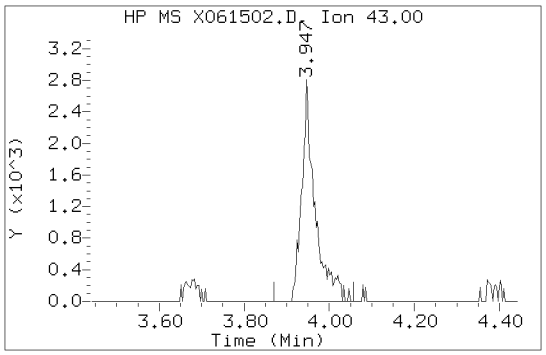
Ethyl Acetate (141-78-6)

Reason Code:

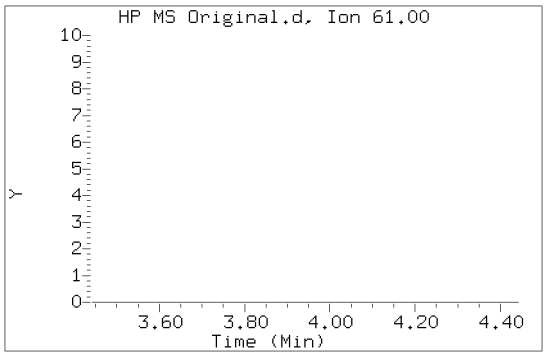
BEFORE
MASS
43
AREA
6119
HEIGHT
2807
12-Jul-2024
11:38
s
zaid



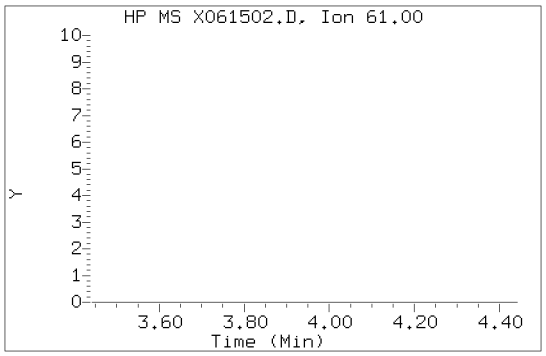
AFTER
MASS
43
AREA
6119
HEIGHT
2807
12-Jul-2024
11:38
s
zaid



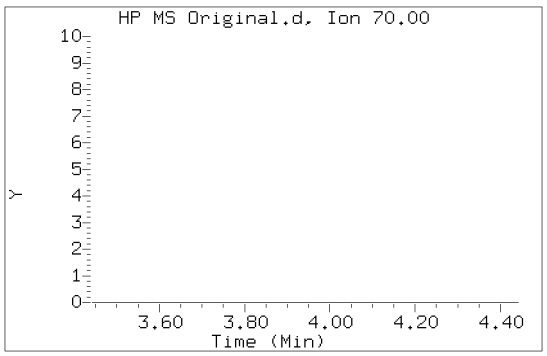
BEFORE
MASS
61
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



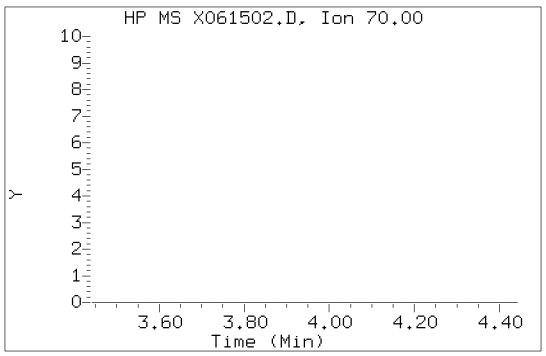
AFTER
MASS
61
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
70
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



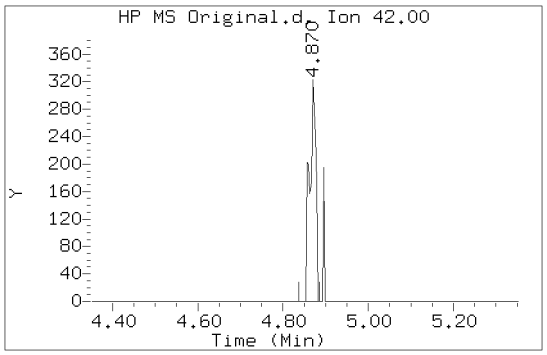
AFTER
MASS
70
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



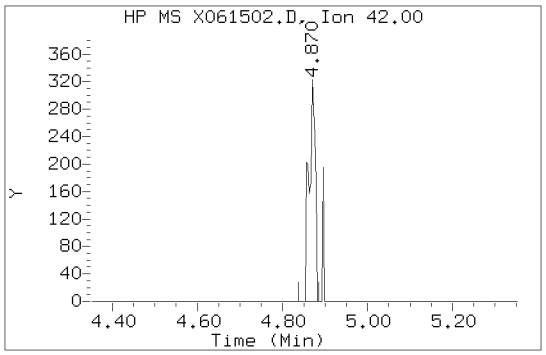
Tetrahydrofuran (109-99-9)

Reason Code:

BEFORE
MASS
42
AREA
337
HEIGHT
323
12-Jul-2024
11:38
s
zaid



AFTER
MASS
42
AREA
337
HEIGHT
323
12-Jul-2024
11:38
s
zaid



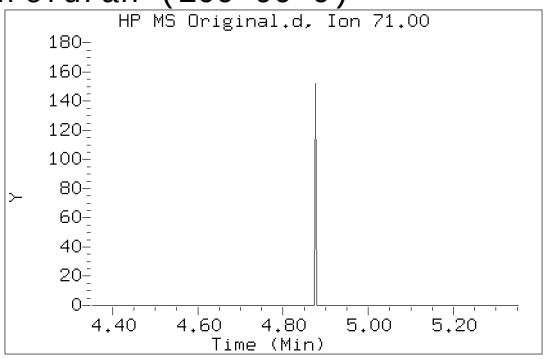
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061502.D
Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

Tetrahydrofuran (109-99-9)

Reason Code:

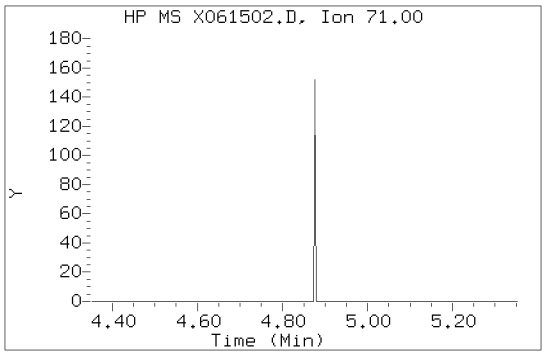
BEFORE

MASS
71
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
71
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

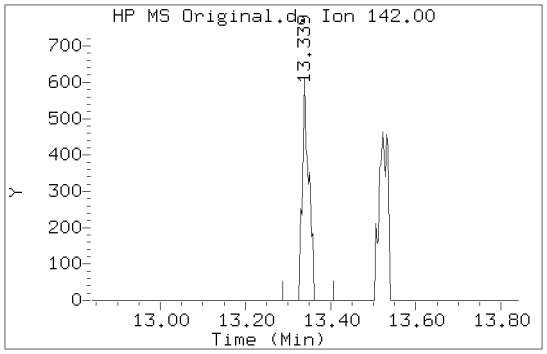


2-Methylnaphthalene (91-57-6)

Reason Code:

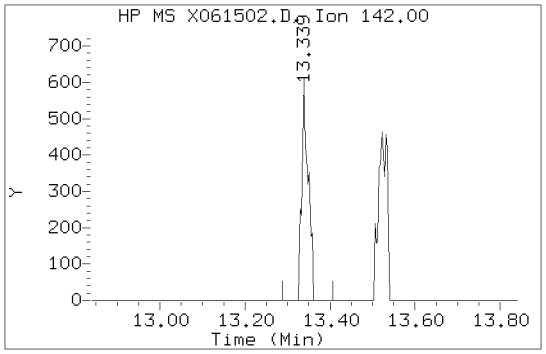
BEFORE

MASS
142
AREA
650
HEIGHT
610
12-Jul-2024
11:38
s
zaid



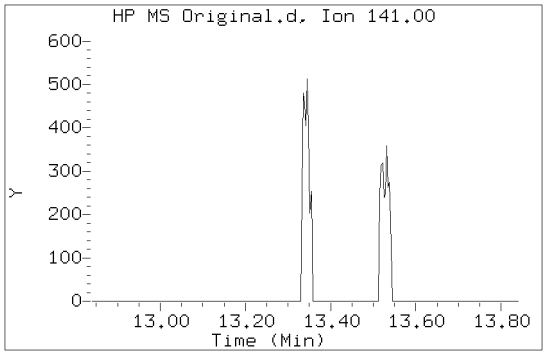
AFTER

MASS
142
AREA
650
HEIGHT
610
12-Jul-2024
11:38
s
zaid



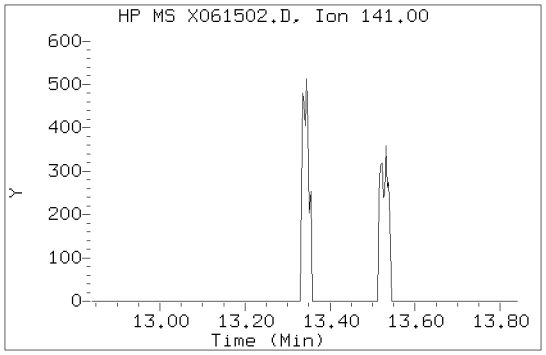
BEFORE

MASS
141
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



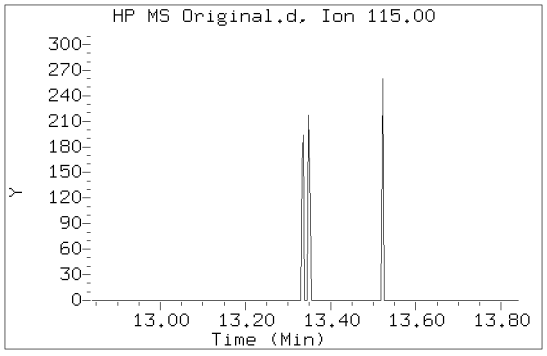
AFTER

MASS
141
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



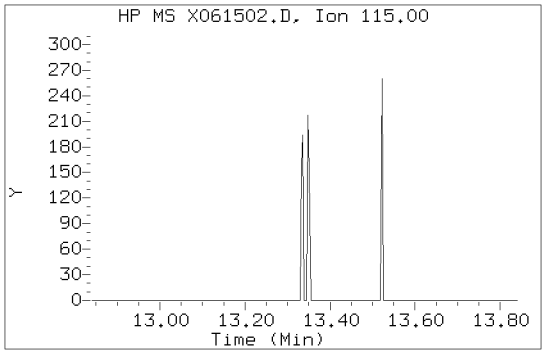
BEFORE

MASS
115
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

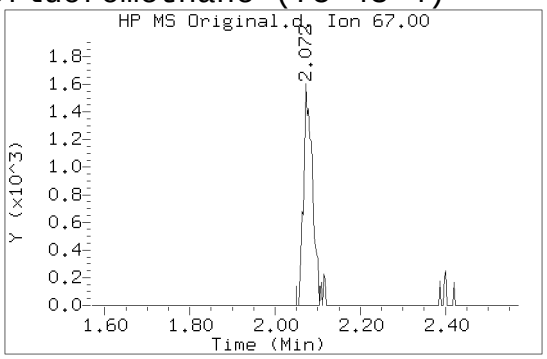
MASS
115
AREA
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HEIGHT
0
12-Jul-2024
11:38
s
zaid



Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061502.D
Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

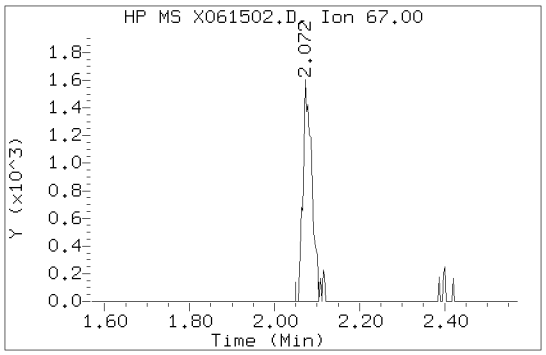
Dichlorofluoromethane (75-43-4)

BEFORE
MASS
67
AREA
2316
HEIGHT
1604
12-Jul-2024
11:38
s
zaid

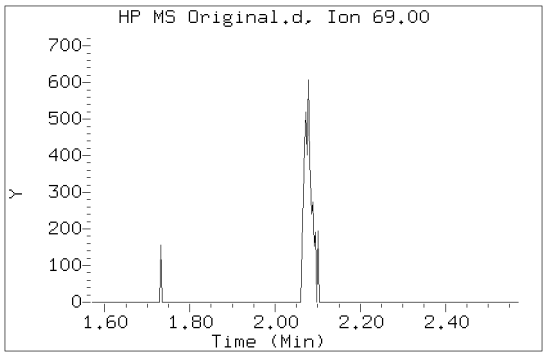


Reason Code:

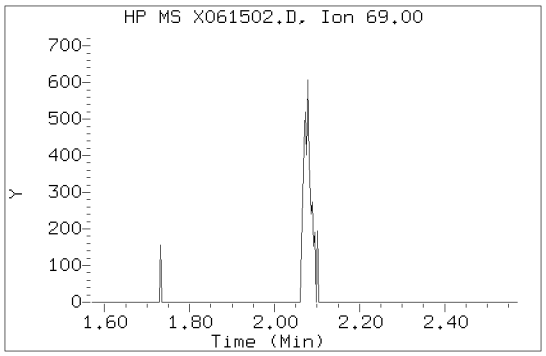
AFTER
MASS
67
AREA
2316
HEIGHT
1604
12-Jul-2024
11:38
s
zaid



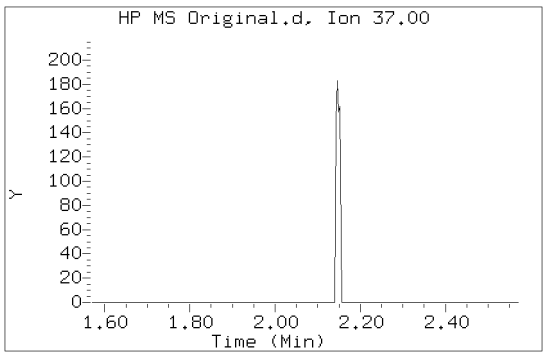
BEFORE
MASS
69
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



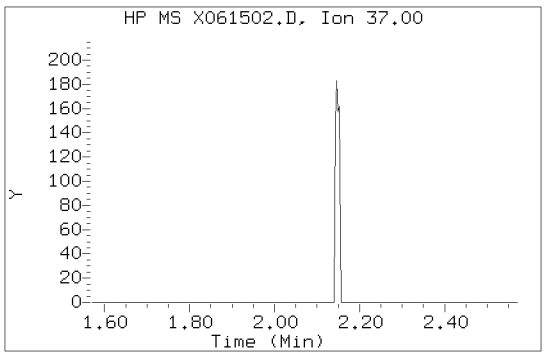
AFTER
MASS
69
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
37
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



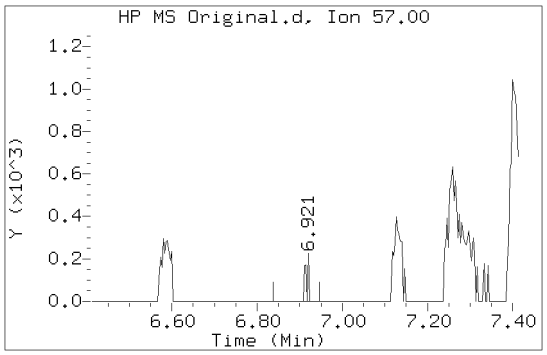
AFTER
MASS
37
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



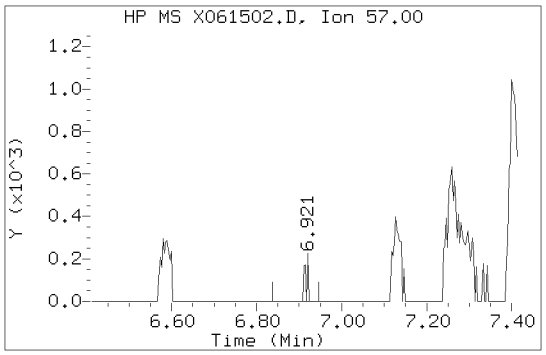
Epichlorohydrin (106-89-8)

Reason Code:

BEFORE
MASS
57
AREA
109
HEIGHT
225
12-Jul-2024
11:38
s
zaid



AFTER
MASS
57
AREA
109
HEIGHT
225
12-Jul-2024
11:38
s
zaid



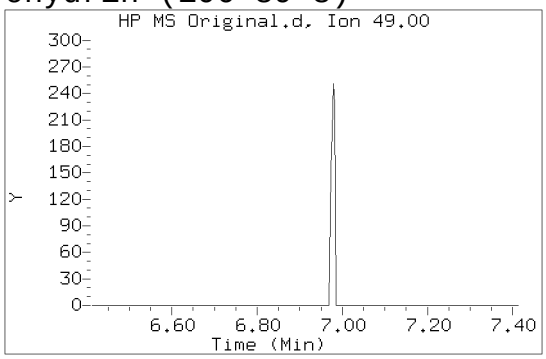
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061502.D
Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

Epichlorohydrin (106-89-8)

Reason Code:

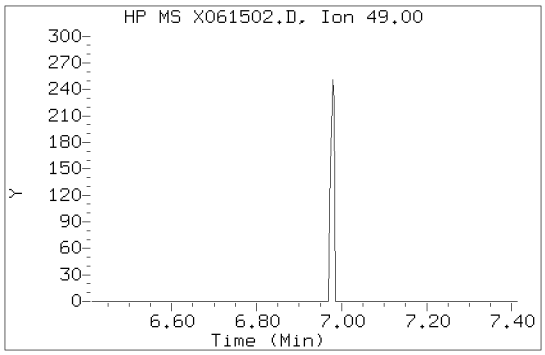
BEFORE

MASS
49
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
49
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

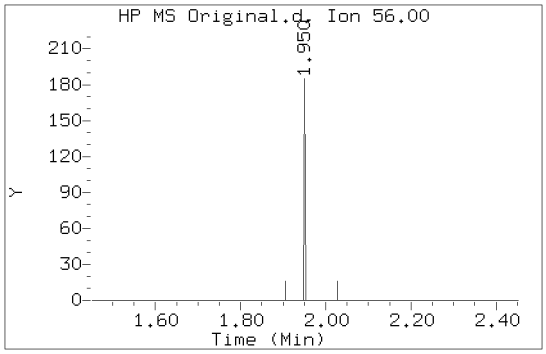


Isobutylene (115-11-7)

Reason Code:

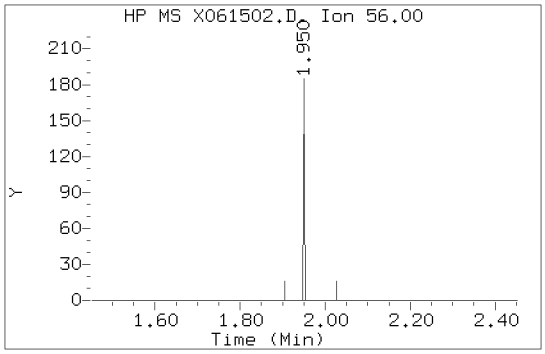
BEFORE

MASS
56
AREA
35
HEIGHT
185
12-Jul-2024
11:38
s
zaid



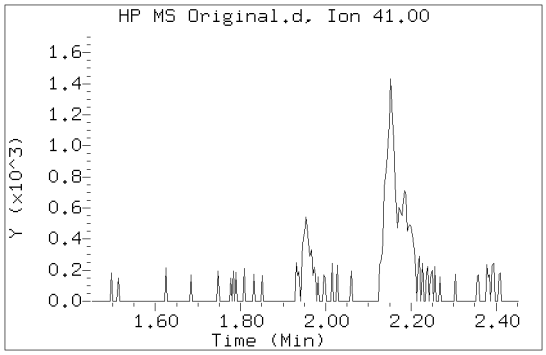
AFTER

MASS
56
AREA
35
HEIGHT
185
12-Jul-2024
11:38
s
zaid



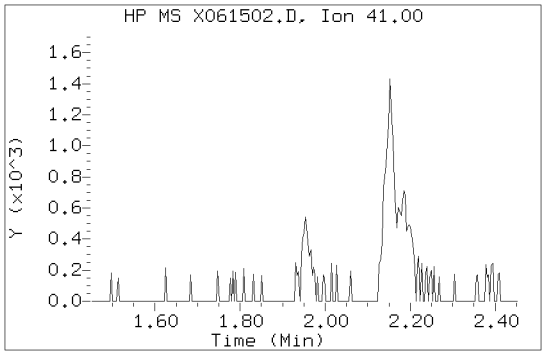
BEFORE

MASS
41
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



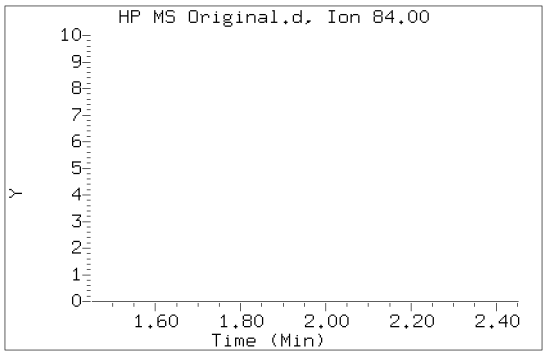
AFTER

MASS
41
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



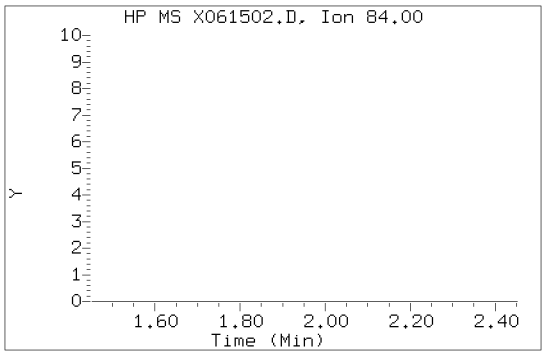
BEFORE

MASS
84
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
84
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

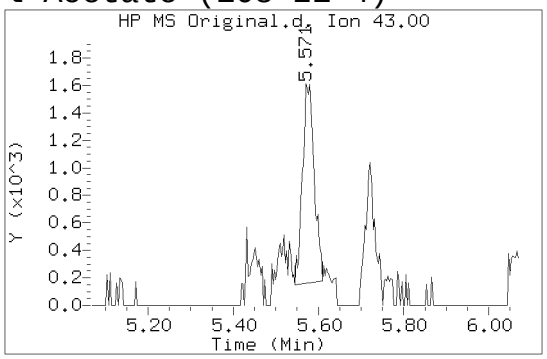


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Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

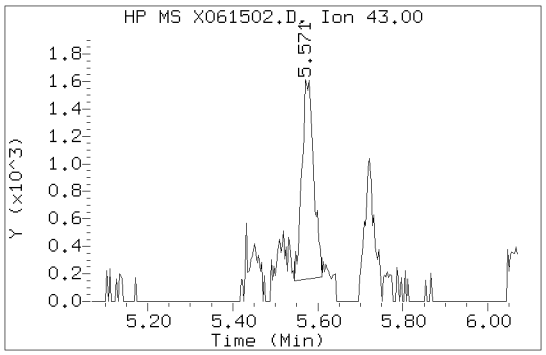
Isopropyl Acetate (108-21-4)

Reason Code:

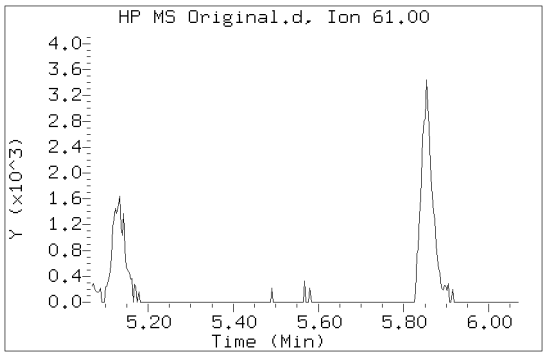
BEFORE
MASS
43
AREA
2765
HEIGHT
1452
12-Jul-2024
11:38
s
zaid



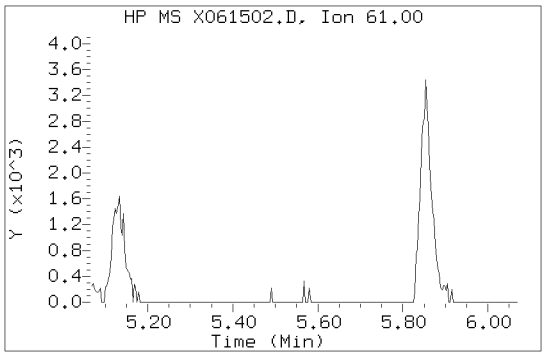
AFTER
MASS
43
AREA
2765
HEIGHT
1452
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
61
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



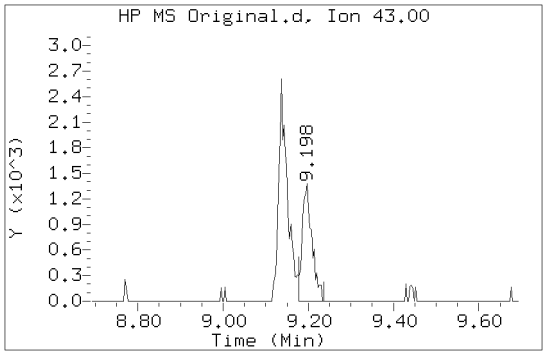
AFTER
MASS
61
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



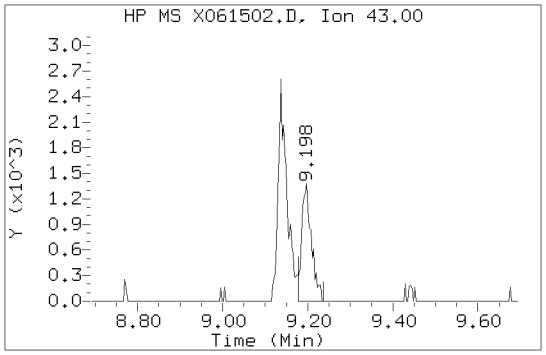
n-Amyl acetate (628-63-7)

Reason Code:

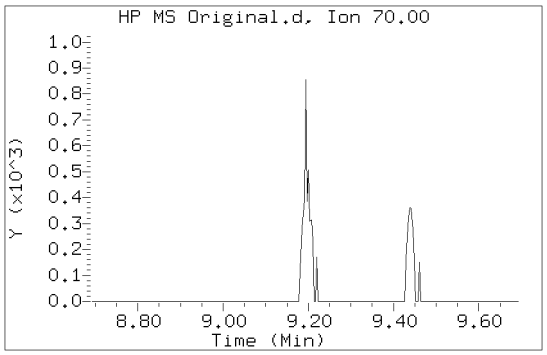
BEFORE
MASS
43
AREA
2202
HEIGHT
1380
12-Jul-2024
11:38
s
zaid



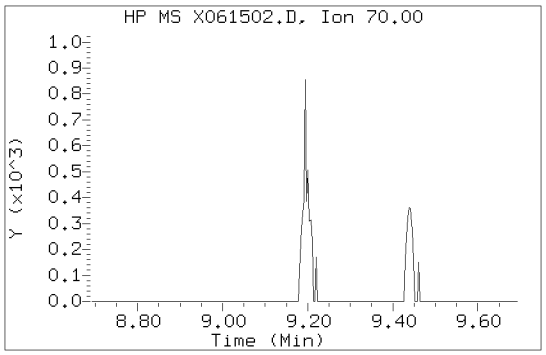
AFTER
MASS
43
AREA
2202
HEIGHT
1380
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
70
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER
MASS
70
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



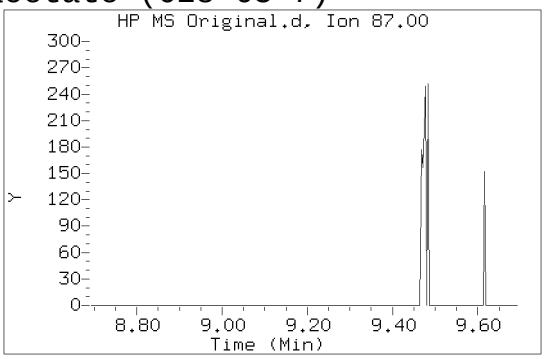
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Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

n-Amyl acetate (628-63-7)

Reason Code:

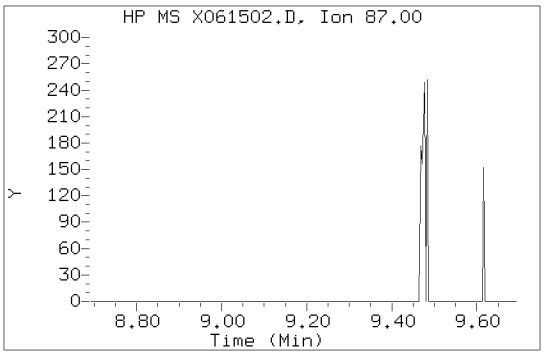
BEFORE

MASS
87
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
87
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

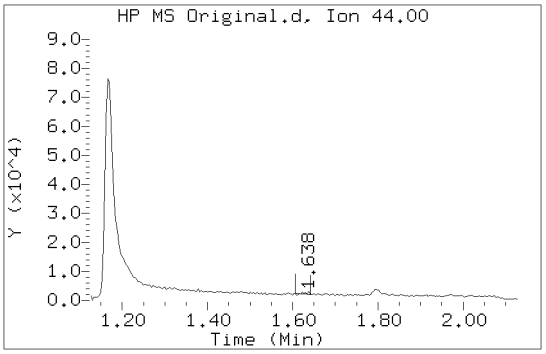


Acetaldehyde (75-07-0)

Reason Code:

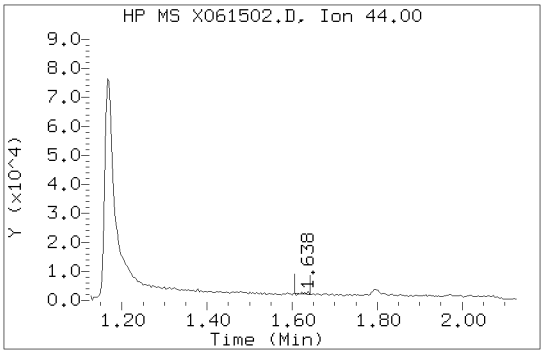
BEFORE

MASS
44
AREA
418
HEIGHT
998
12-Jul-2024
11:38
s
zaid



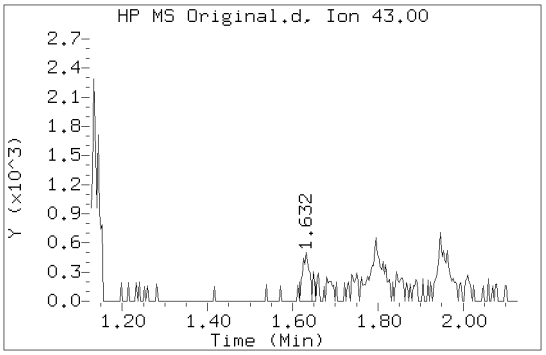
AFTER

MASS
44
AREA
418
HEIGHT
998
12-Jul-2024
11:38
s
zaid



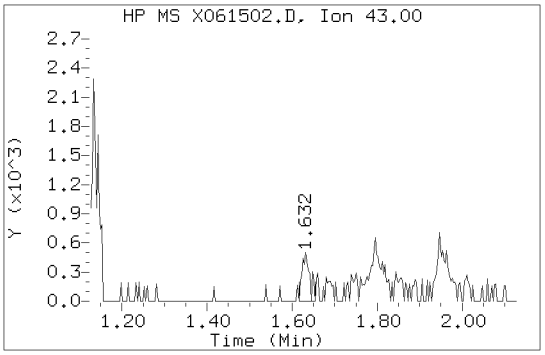
BEFORE

MASS
43
AREA
643
HEIGHT
500
12-Jul-2024
11:38
s
zaid



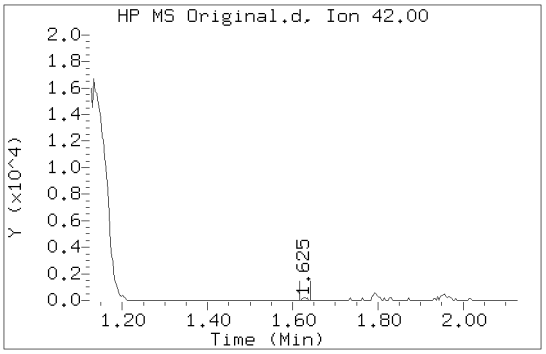
AFTER

MASS
43
AREA
643
HEIGHT
500
12-Jul-2024
11:38
s
zaid



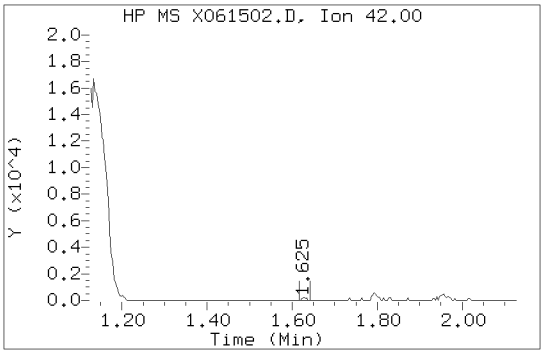
BEFORE

MASS
42
AREA
165
HEIGHT
204
12-Jul-2024
11:38
s
zaid



AFTER

MASS
42
AREA
165
HEIGHT
204
12-Jul-2024
11:38
s
zaid



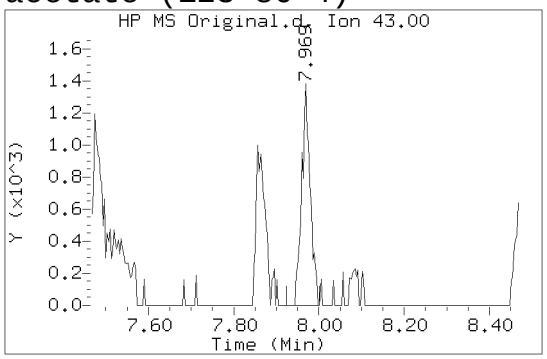
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Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

n-Butyl acetate (123-86-4)

Reason Code:

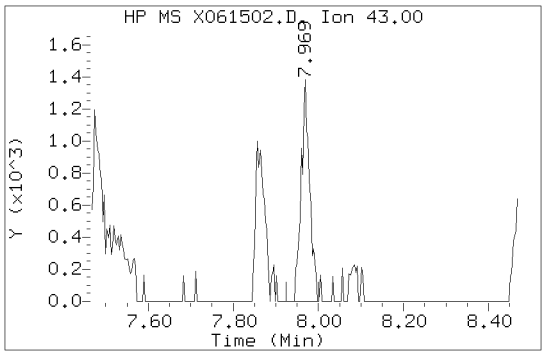
BEFORE

MASS
43
AREA
1945
HEIGHT
1382
12-Jul-2024
11:38
s
zaid



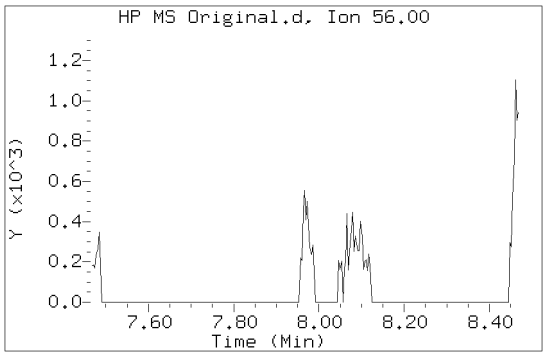
AFTER

MASS
43
AREA
1945
HEIGHT
1382
12-Jul-2024
11:38
s
zaid



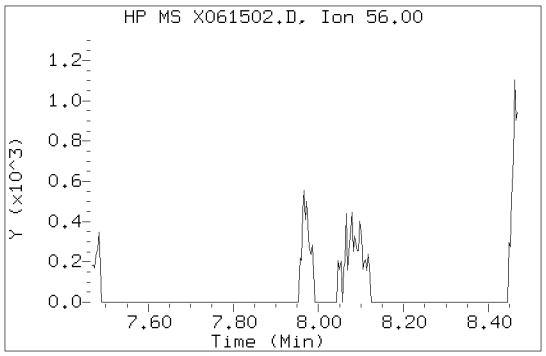
BEFORE

MASS
56
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



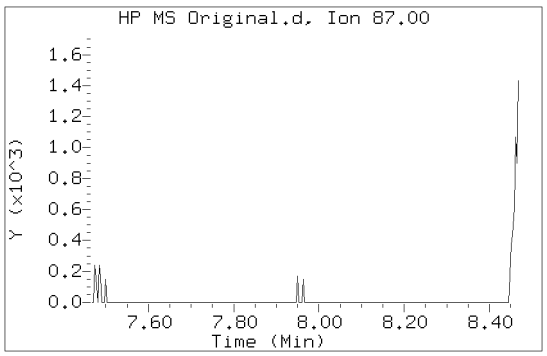
AFTER

MASS
56
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



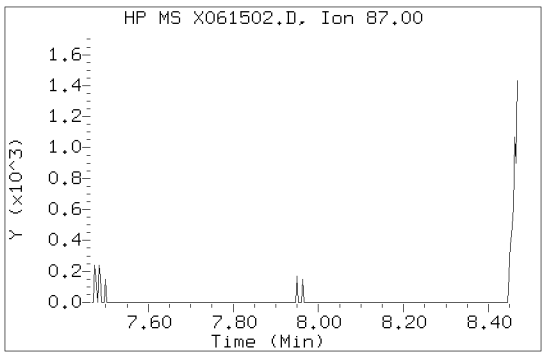
BEFORE

MASS
87
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
87
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

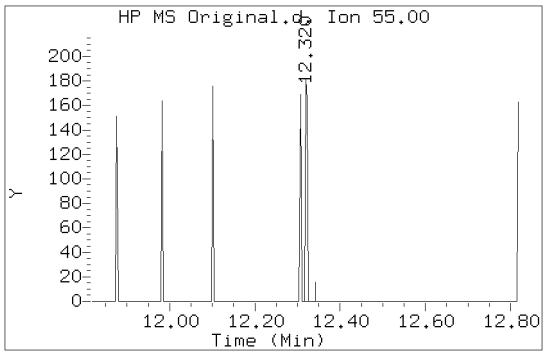


2-Etyhlhexyl Acrylate (103-11-7)

Reason Code:

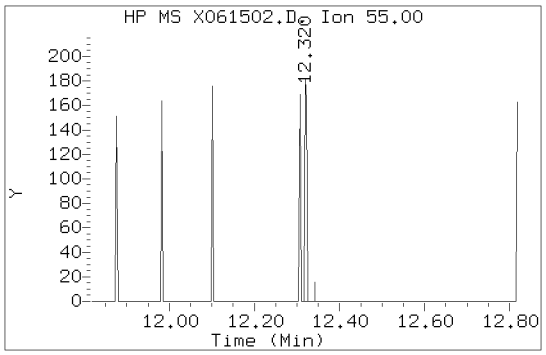
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AFTER

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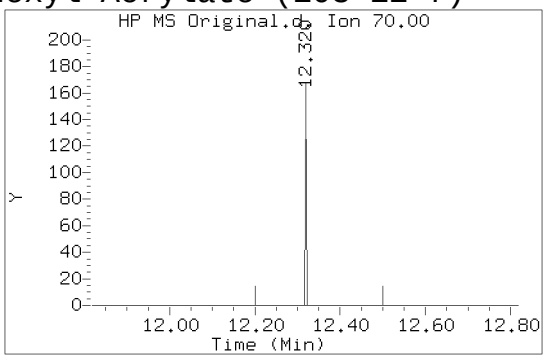
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Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

2-Etyhlhexyl Acrylate (103-11-7)

Reason Code:

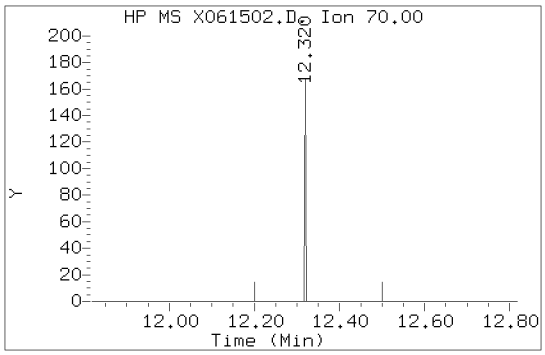
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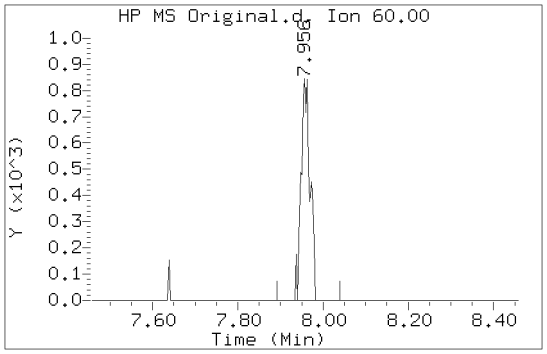


Tetrahydrothiophene (110-01-0)

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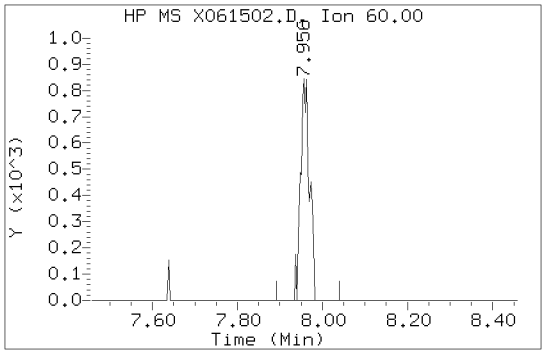
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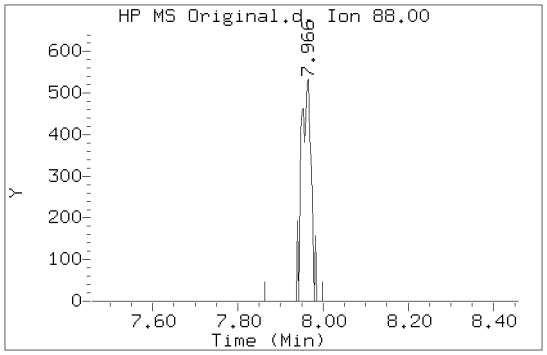
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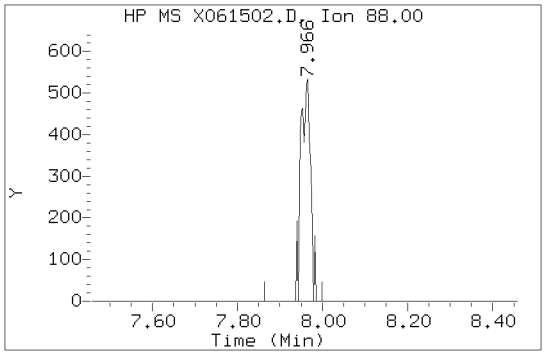
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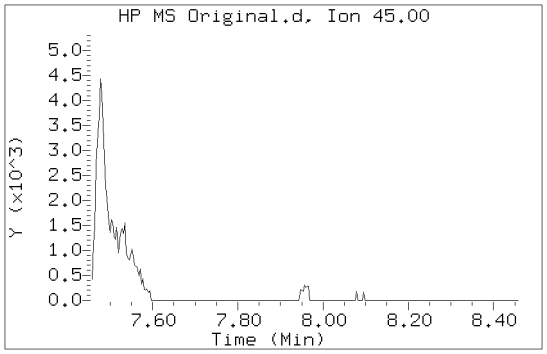
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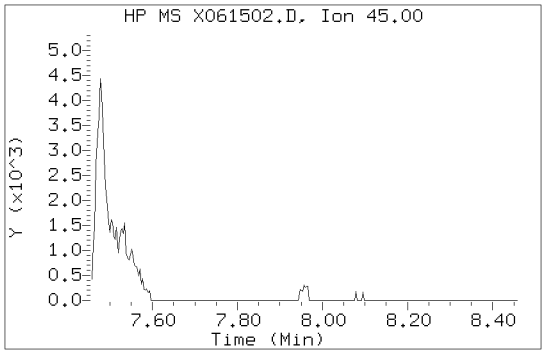
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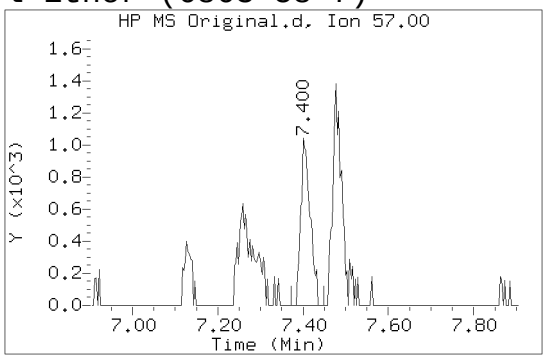


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LabSampID : VSTD00.5

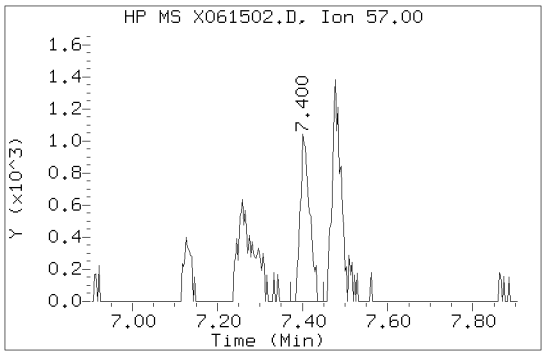
sec-Butyl Ether (6863-58-7)

Reason Code:

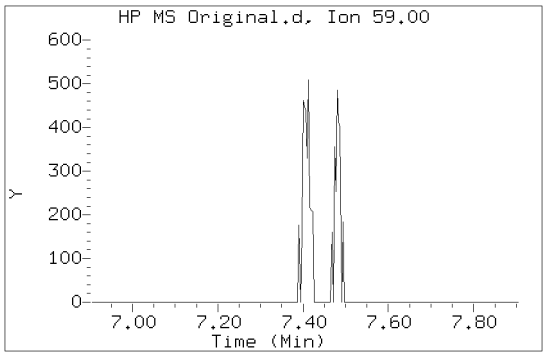
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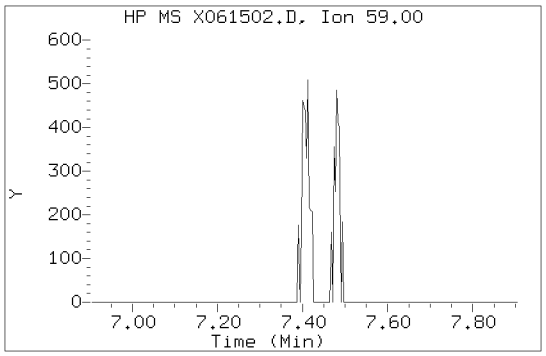
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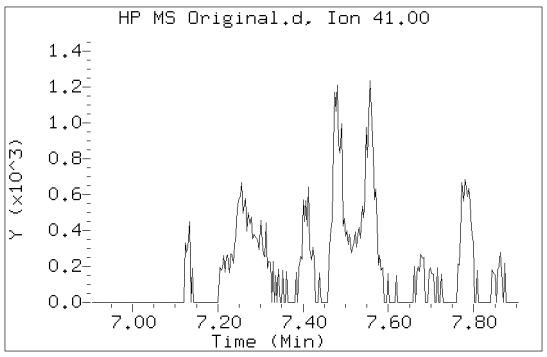
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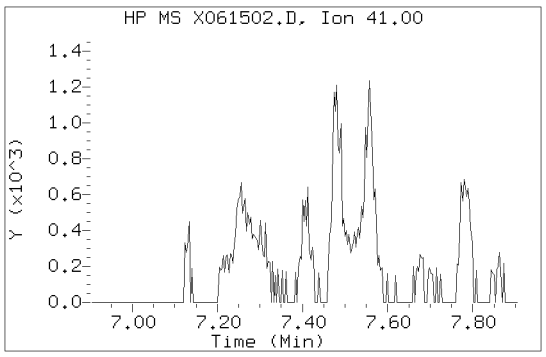
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BEFORE
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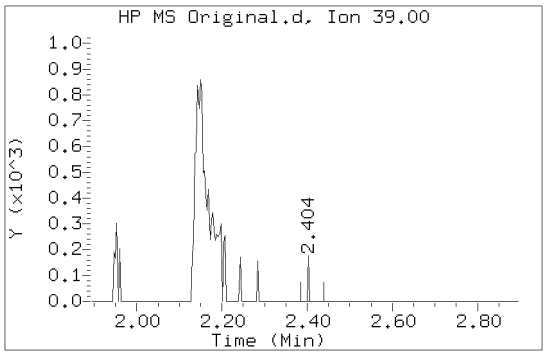
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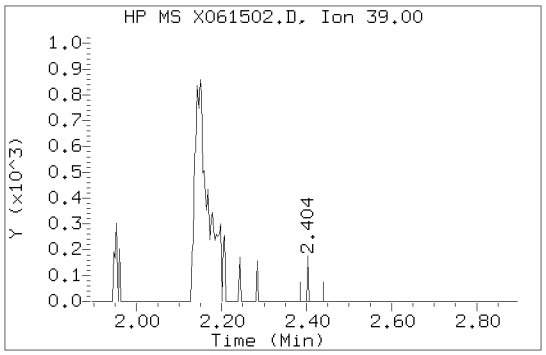
Isoprene (78-79-5)

Reason Code:

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AFTER
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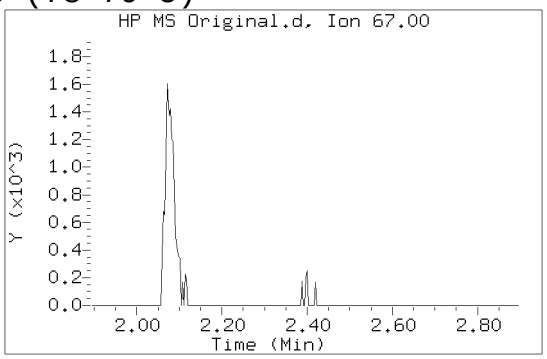
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Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

Isoprene (78-79-5)

Reason Code:

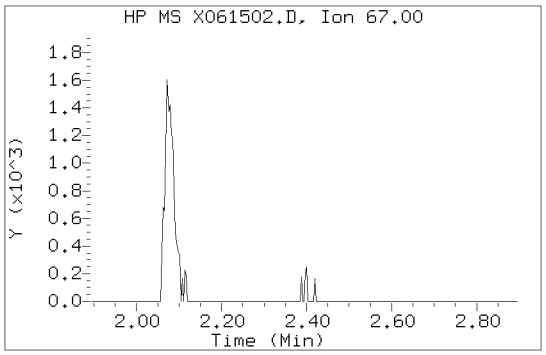
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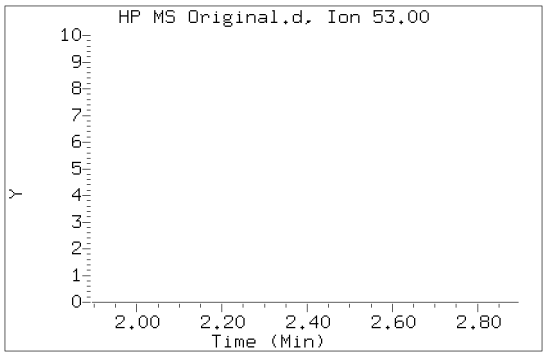
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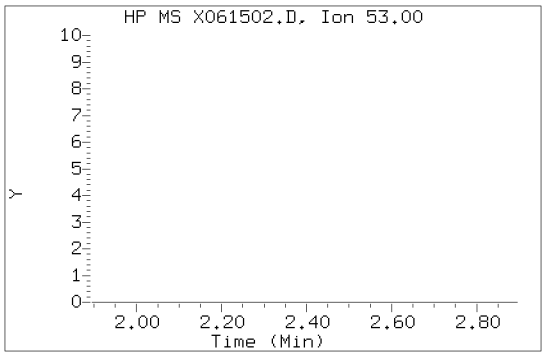
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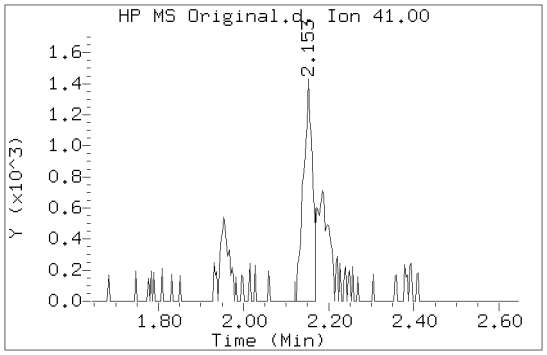


2-Chloropropene (557-98-2)

Reason Code:

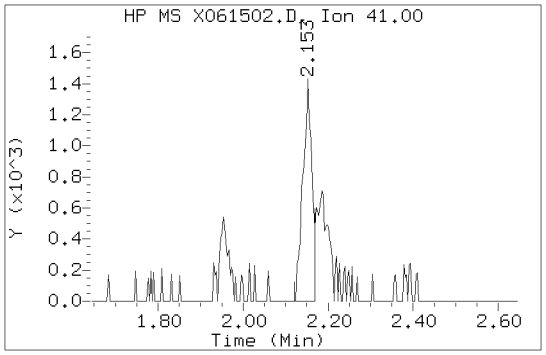
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AFTER

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12-Jul-2024
11:38
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zaid



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061503.D Page 1
Report Date: 12-Jul-2024 11:38

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061503.D
Lab Smp Id: VSTD001 Client Smp ID: VSTD001
Inj Date : 15-JUN-2024 14:24
Operator : AP Inst ID: voa7.i
Smp Info : VSTD001;VSTD001;1;2
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Meth Date : 12-Jul-2024 11:38 voa7.i Quant Type: ISTD
Cal Date : 15-JUN-2024 14:01 Cal File: X061502.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	5.129	5.129	(1.000)	122813	50.0000	
2	Dichlorodifluoromethane	85	1.294	1.294	(0.252)	945	1.00000	0.37(a)
159	Dichlorofluoromethane	67	2.072	2.072	(0.404)	2496	1.00000	0.97(aM)
3	Chloromethane	50	1.445	1.445	(0.282)	2511	1.00000	0.37(a)
5	Vinyl Chloride	62	1.535	1.535	(0.299)	1452	1.00000	0.70(a)
7	Chloroethane	64	1.901	1.901	(0.371)	994	1.00000	0.53(a)
11	1,1-Dichloroethene	96	2.589	2.589	(0.505)	872	1.00000	0.84(a)
12	Isobutyl Alcohol	43	5.573	5.573	(1.086)	5734	20.0000	9.97(a)
13	Acetonitrile	39	2.956	2.956	(0.576)	2072	10.0000	4.70(a)
15	Iodomethane	142	2.744	2.744	(0.535)	1727	2.00000	4.88(M)
16	Acrylonitrile	53	3.384	3.384	(0.660)	891	2.00000	1.15(a)
17	Methylene Chloride	84	3.097	3.097	(0.604)	3218	1.00000	0.48(a)
18	Methyl tert-butyl ether	73	3.390	3.390	(0.661)	3682	1.00000	1.33
19	Carbon Disulfide	76	2.795	2.795	(0.545)	7853	2.00000	1.45(a)
20	trans-1,2-Dichloroethene	96	3.377	3.377	(0.658)	1186	1.00000	0.63(a)
22	1,1-Dichloroethane	63	3.863	3.863	(0.753)	2823	1.00000	0.97(Ta)
23	Chloroprene	53	3.969	3.969	(0.774)	1900	1.00000	0.79(a)
24	2-Butanone	43	4.599	4.599	(0.897)	2851	2.00000	0.82(a)
25	Methacrylonitrile	41	2.149	2.149	(0.419)	1634	1.00000	0.79(a)
26	2,2-Dichloropropane	77	4.535	4.535	(0.884)	2018	1.00000	0.82(a)

27 cis-1,2-Dichloroethene	96	4.541	4.541 (0.885)	1560	1.00000	0.54(a)
28 Chloroform	83	4.901	4.901 (0.955)	3399	1.00000	0.52(a)

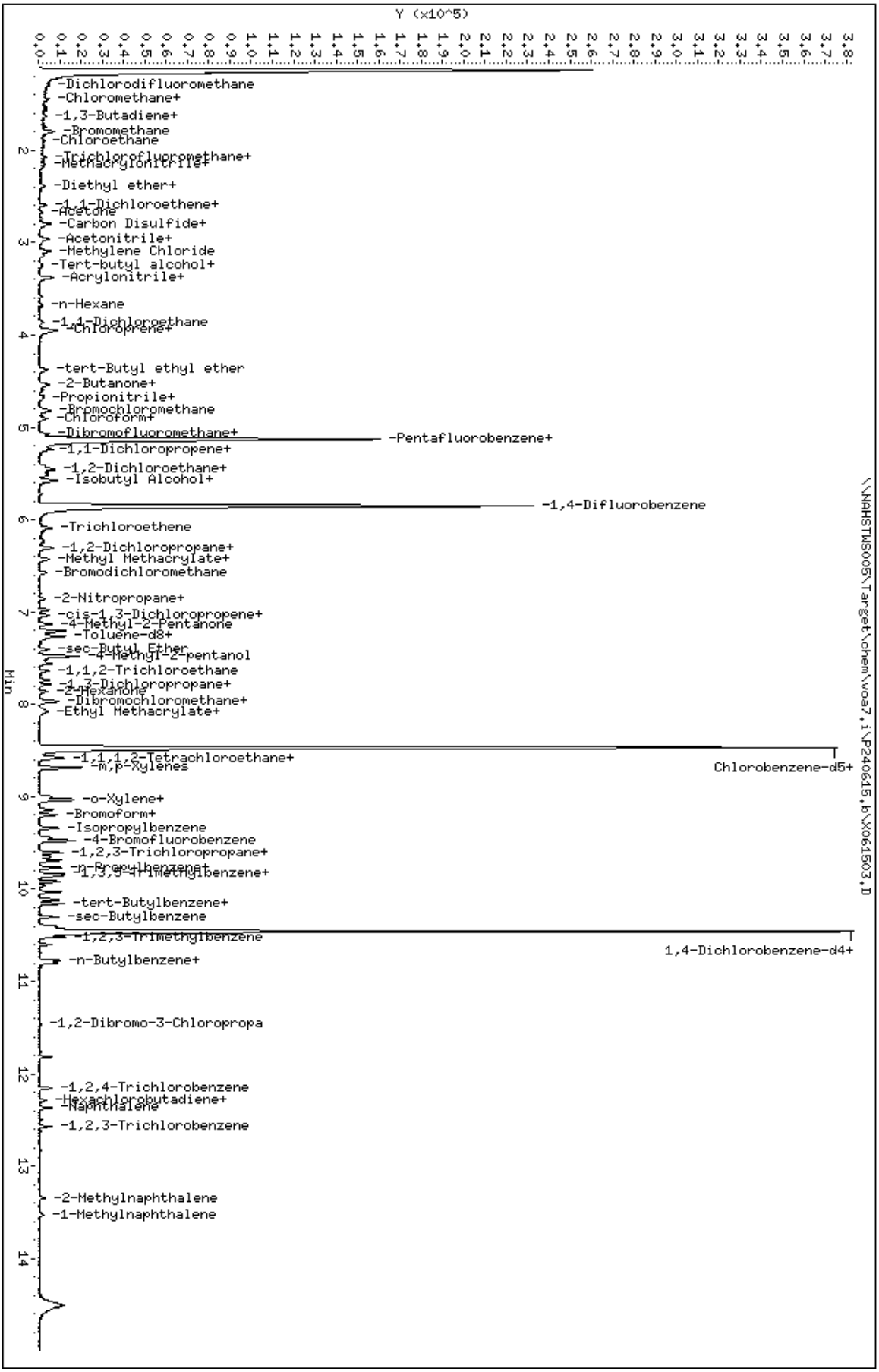
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	29 Bromochloromethane	128	4.805	4.805	(0.937)	808	1.00000	0.72(aM)
$	30 Dibromofluoromethane	113	5.075	5.075	(0.989)	1705	1.00000	0.24(a)
	31 1,1,1-Trichloroethane	97	5.072	5.072	(0.989)	1878	1.00000	0.80(a)
	32 1,1-Dichloropropene	75	5.236	5.236	(0.895)	1749	1.00000	1.00
	33 1,2-Dichloroethane	62	5.499	5.499	(0.940)	2750	1.00000	0.83(a)
	34 Carbon Tetrachloride	117	5.232	5.232	(0.894)	1790	1.00000	1.80
$	35 1,2-Dichloroethane-d4	65	5.419	5.419	(1.056)	2415	1.00000	0.56(a)
*	36 1,4-Difluorobenzene	114	5.853	5.853	(1.000)	201138	50.0000	
	37 Benzene	78	5.457	5.457	(0.932)	6318	1.00000	0.70(a)
	38 Trichloroethene	130	6.091	6.091	(1.041)	1475	1.00000	0.92(a)
	39 Bromodichloromethane	83	6.573	6.573	(1.123)	2334	1.00000	1.04(M)
	41 2-Chloroethylvinyl ether	63	6.853	6.853	(1.171)	1519	2.00000	1.42(aM)
	42 1,2-Dichloropropane	63	6.309	6.309	(1.078)	1795	1.00000	0.74(a)
	43 2-Nitropropane	43	6.801	6.801	(1.326)	593	1.00000	1.68(a)
	44 Dibromomethane	93	6.428	6.428	(1.098)	1021	1.00000	1.11
	45 4-Methyl-2-Pentanone	43	7.129	7.129	(0.842)	4091	2.00000	1.06(a)
	46 cis-1,3-Dichloropropene	75	6.975	6.975	(1.192)	2713	1.00000	1.64
*	47 Chlorobenzene-d5	117	8.467	8.467	(1.000)	190741	50.0000	
$	48 Toluene-d8	98	7.207	7.207	(0.851)	8117	1.00000	0.38(a)
	49 Ethyl Methacrylate	69	8.078	8.078	(1.380)	2257	1.00000	1.35
	50 Toluene	91	7.264	7.264	(0.858)	6541	1.00000	0.54(a)
	51 trans-1,3-Dichloropropene	75	6.975	6.975	(1.192)	2713	1.00000	1.64
	53 1,1,2-Trichloroethane	83	7.637	7.637	(0.902)	1325	1.00000	0.41(a)
	54 1,3-Dichloropropane	76	7.779	7.779	(0.919)	3036	1.00000	0.59(a)
	55 Dibromochloromethane	129	7.972	7.972	(0.942)	1658	1.00000	1.06
	56 Tetrachloroethene	164	7.737	7.737	(0.914)	913	1.00000	0.76(a)
	57 1,2-Dibromoethane	107	8.071	8.071	(0.953)	1535	1.00000	0.47(a)
	59 Chlorobenzene	112	8.493	8.493	(1.003)	4359	1.00000	0.52(a)
	60 1,1,1,2-Tetrachloroethane	131	8.563	8.563	(1.011)	1575	1.00000	1.64
	61 Ethylbenzene	106	8.589	8.589	(1.014)	1961	1.00000	0.50(a)
	62 m,p-Xylenes	106	8.682	8.682	(1.025)	5521	2.00000	1.23(a)
	63 o-Xylene	106	9.020	9.020	(1.065)	2749	1.00000	0.46(a)
	64 Styrene	104	9.039	9.039	(1.068)	4857	1.00000	0.59(a)
	66 Bromoform	173	9.206	9.206	(1.087)	1015	1.00000	1.03(T)
	67 Isopropylbenzene	105	9.335	9.335	(1.103)	6133	1.00000	0.71(a)
	68 1,1,2,2-Tetrachloroethane	83	9.605	9.605	(0.919)	2231	1.00000	0.72(aM)
$	69 4-Bromofluorobenzene	95	9.470	9.470	(1.118)	5645	1.00000	1.21
*	70 1,4-Dichlorobenzene-d4	152	10.457	10.457	(1.000)	90448	50.0000	
	71 1,2,3-Trichloropropane	75	9.650	9.650	(0.923)	2623	1.00000	0.94(a)
	72 trans-1,4-Dichloro-2-butene	53	9.657	9.657	(1.140)	625	1.00000	1.67
	73 n-Propylbenzene	91	9.689	9.689	(0.926)	7684	1.00000	1.15
	74 Bromobenzene	156	9.602	9.602	(0.918)	1940	1.00000	1.12
	75 1,3,5-Trimethylbenzene	105	9.837	9.837	(0.941)	5830	1.00000	1.40
	76 2-Chlorotoluene	91	9.766	9.766	(0.934)	5439	1.00000	0.86(a)
	77 4-Chlorotoluene	91	9.856	9.856	(0.943)	6290	1.00000	1.03
	78 tert-Butylbenzene	119	10.110	10.110	(0.967)	4454	1.00000	0.88(a)
	79 1,2,4-Trimethylbenzene	105	10.158	10.158	(0.971)	5961	1.00000	1.10
	81 sec-Butylbenzene	105	10.300	10.300	(0.985)	5578	1.00000	1.19
	82 p-Isopropyltoluene	119	10.425	10.425	(0.997)	5195	1.00000	1.21
	83 1,3-Dichlorobenzene	146	10.406	10.406	(0.995)	3358	1.00000	1.11
	84 1,4-Dichlorobenzene	146	10.476	10.476	(1.002)	3741	1.00000	0.92(a)
	87 n-Butylbenzene	91	10.769	10.769	(1.030)	4888	1.00000	1.02

88	1,2-Dichlorobenzene	146	10.801	10.801 (1.033)	3305	1.00000	1.07
89	1,2-Dibromo-3-Chloropropane	75	11.467	11.467 (1.097)	284	1.00000	1.06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
90	1,2,4-Trichlorobenzene	180	12.155	12.155	(1.162)	2045	1.00000	1.99
91	Hexachlorobutadiene	225	12.287	12.287	(1.175)	674	1.00000	1.53
92	Naphthalene	128	12.370	12.370	(1.183)	4235	1.00000	1.09
93	1,2,3-Trichlorobenzene	182	12.570	12.570	(1.202)	1577	1.00000	1.11
146	Methyl acetate	43	2.814	2.814	(0.549)	346	1.00000	(aM)
138	Freon TF	101	2.586	2.586	(0.504)	573	1.00000	0.75(Ta)
139	Diethyl ether	59	2.377	2.377	(0.463)	965	1.00000	1.07
140	1,3-Butadiene	54	1.557	1.557	(0.304)	586	1.00000	1.46(a)
141	Cyclohexane	56	5.123	5.123	(0.999)	3665	1.00000	1.04(a)
147	Methylcyclohexane	83	6.252	6.252	(1.068)	447	1.00000	2.24(M)
133	Ethyl Acrylate	55	6.229	6.229	(1.214)	3026	1.00000	0.87(aM)
136	n-Hexane	57	3.679	3.679	(0.717)	594	1.00000	1.10
142	Tetrahydrofuran	42	4.872	4.872	(0.950)	607	2.00000	4.08(M)
148	Tert-butyl alcohol	59	3.255	3.255	(0.635)	2070	20.0000	22.83
151	4-Methyl-2-pentanol	45	7.477	7.477	(0.883)	10862	20.0000	15.50(a)
166	1,2,3-Trimethylbenzene	105	10.518	10.518	(1.006)	5701	1.00000	1.22
173	3,3-Dimethyl-1-butanol	57	8.062	8.062	(0.952)	3141	20.0000	29.75(M)
174	tert-Amyl methyl ether	73	5.576	5.576	(1.087)	4784	1.00000	1.10
175	tert-Butyl ethyl ether	59	4.377	4.377	(0.853)	4050	1.00000	0.96(a)
157	2-Methylnaphthalene	142	13.345	13.345	(1.276)	1457	1.00000	1.03
156	Diisopropyl ether	45	3.953	3.953	(0.771)	4669	1.00000	0.95(Ta)
171	1-Methylnaphthalene	142	13.531	13.531	(1.294)	1422	1.00000	1.13
130	Ethyl Acetate	43	3.943	3.943	(0.769)	10732	1.00000	1.39(aM)
176	tert-Amyl alcohol	59	5.515	5.515	(1.075)	2244	20.0000	6.84
160	Epichlorohydrin	57	6.907	6.907	(1.180)	318	4.00000	4.96
161	Butyl acrylate	55	9.001	9.001	(1.063)	3946	1.00000	1.46(a)
183	Isopropyl Acetate	43	5.573	5.573	(0.952)	4776	1.00000	0.59(aA)
184	n-Amyl acetate	43	9.190	9.190	(1.085)	4173	1.00000	1.86(aAM)
185	Acetaldehyde	44	1.628	1.628	(0.317)	1282	4.00000	2.32(aAM)
186	n-Butyl acetate	43	7.969	7.969	(0.941)	3629	1.00000	0.75(aAM)
187	2-Etyhlhexyl Acrylate	55	12.316	12.316	(1.178)	362	1.00000	3.78(aAM)
188	Tetrahydrothiophene	60	7.956	7.956	(0.940)	1726	1.00000	0.98(aAM)
189	sec-Butyl Ether	57	7.412	7.412	(0.875)	1835	1.00000	(aM)
190	Isoprene	39	2.400	2.400	(0.468)	194	1.00000	0.87(aAM)
191	2-Chloropropene	41	2.149	2.149	(0.419)	2312	1.00000	1.09(aAM)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.



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Client ID: VSTD001
Sample Info: VSTD001;VSTD001;1;2
Purge Volume: 5.0
Column phase: DB624

Instrument: voa7.i
Operator: AP
Column diameter: 0.18

\\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061503.D

Page 1

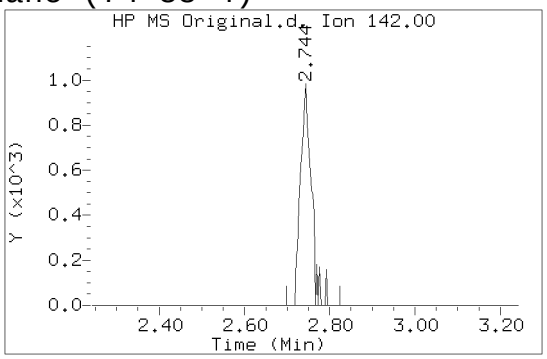
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Iodomethane (74-88-4)

Reason Code:

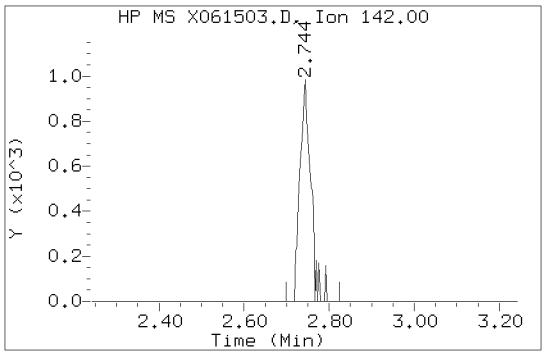
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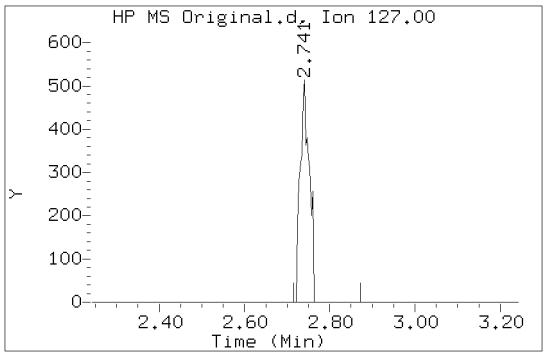
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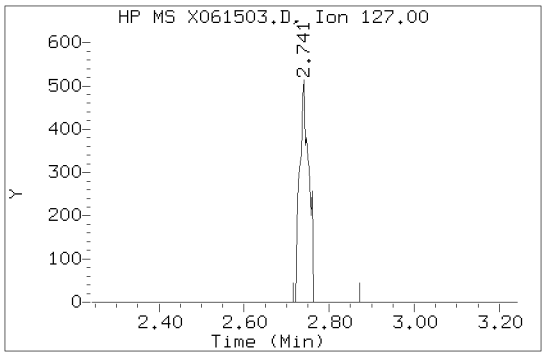
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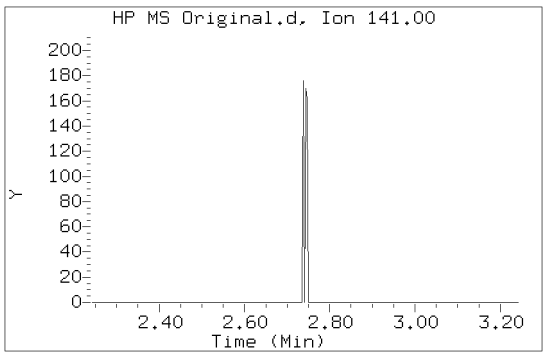
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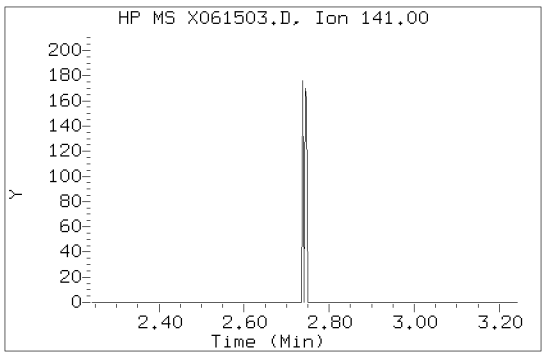
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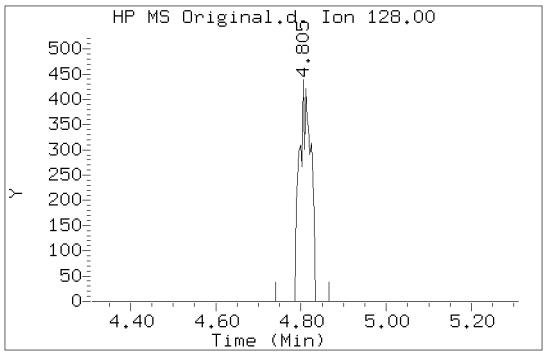


Bromochloromethane (74-97-5)

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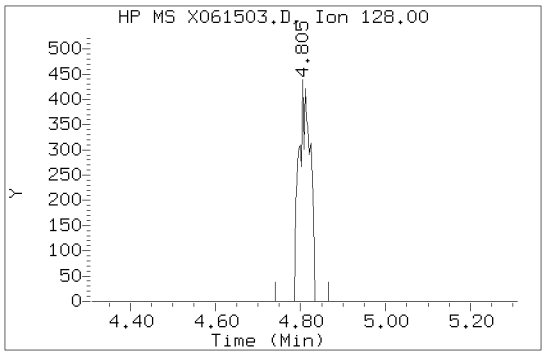
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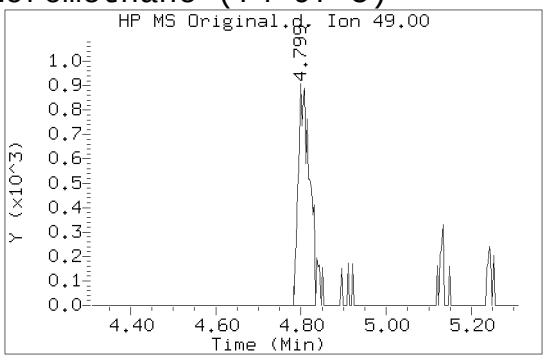
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LabSampID : VSTD001

Bromochloromethane (74-97-5)

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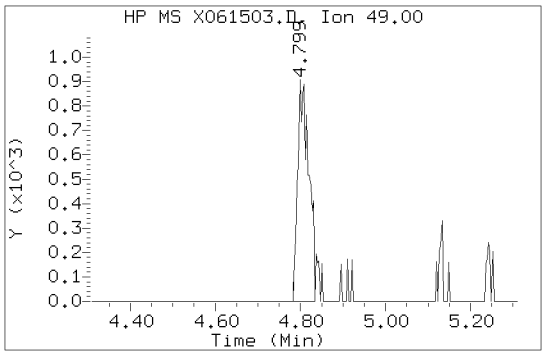
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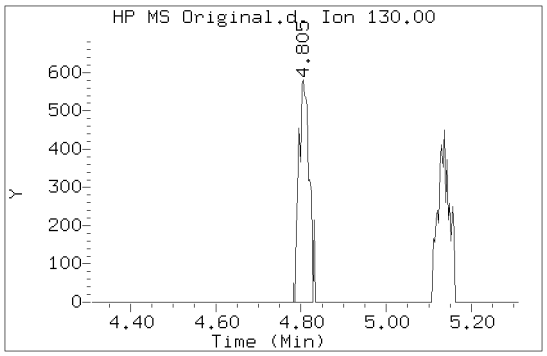
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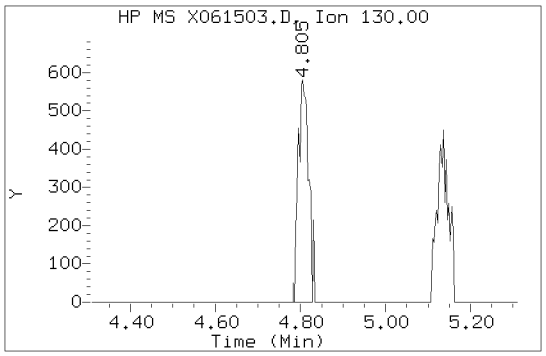
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AFTER

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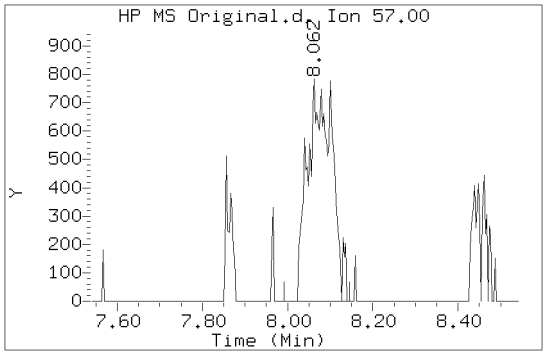


3,3-Dimethyl-1-butanol (624-95-3)

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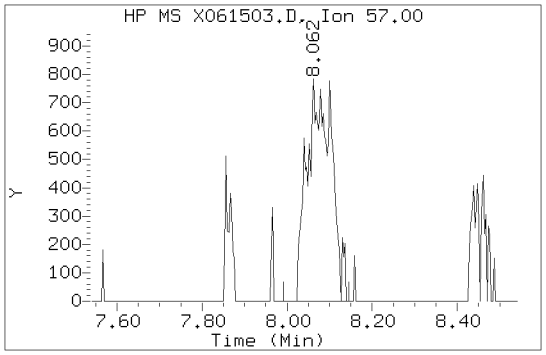
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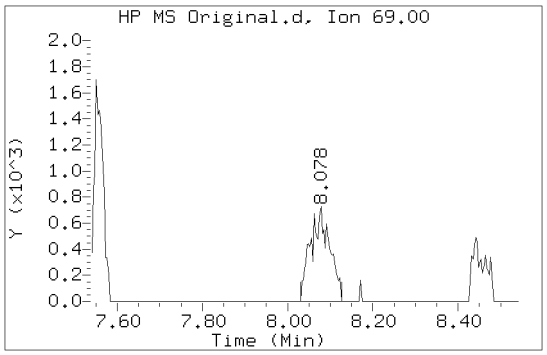
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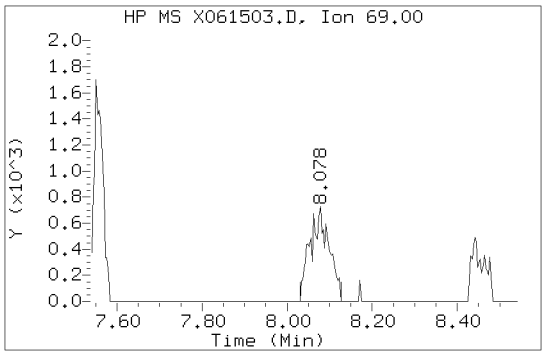
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AFTER

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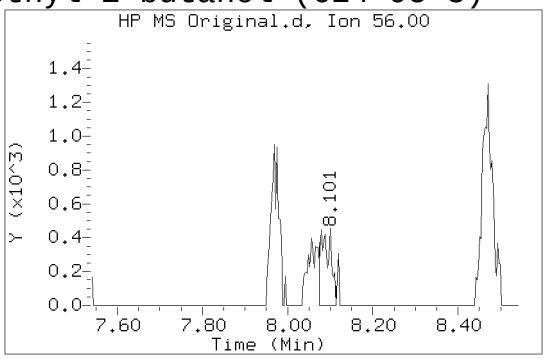
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Inj Date : 15-JUN-2024 14:24
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LabSampID : VSTD001

3,3-Dimethyl-1-butanol (624-95-3)

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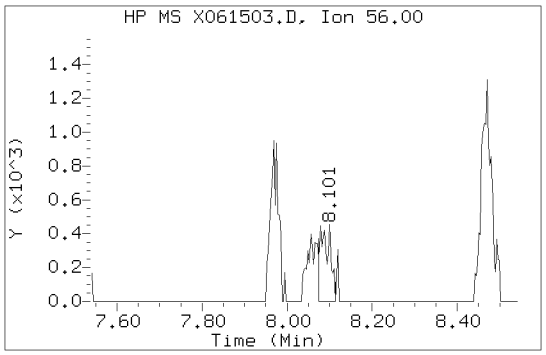
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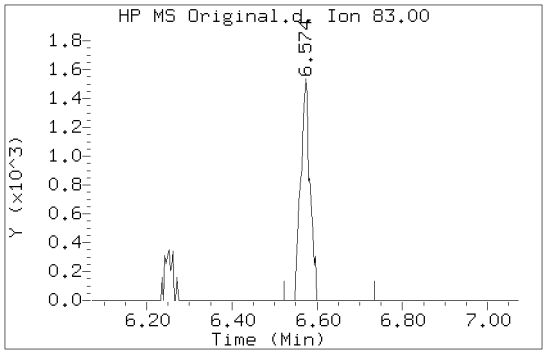


Bromodichloromethane (75-27-4)

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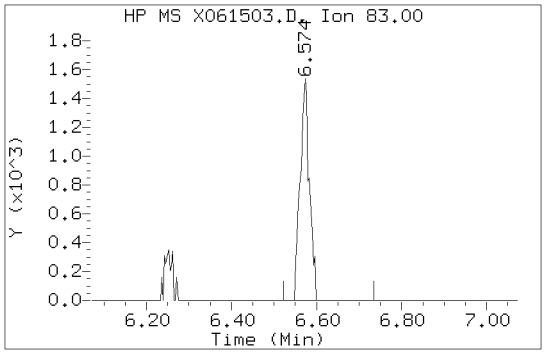
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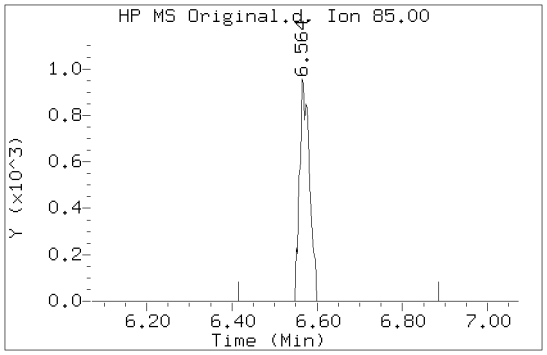
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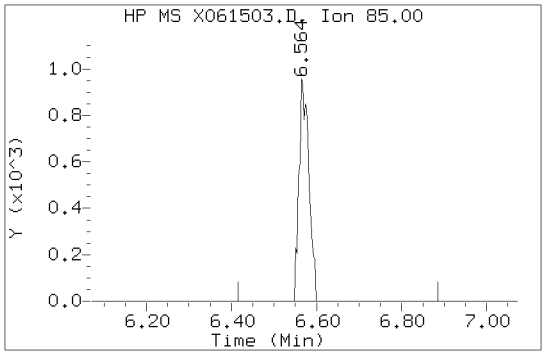
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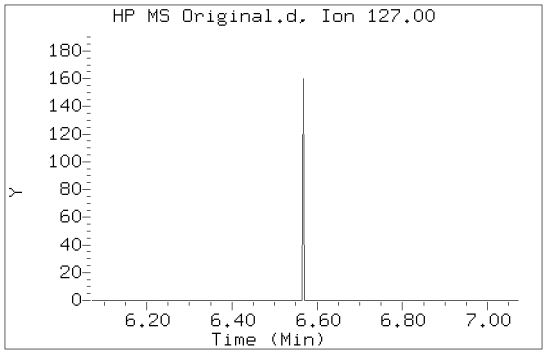
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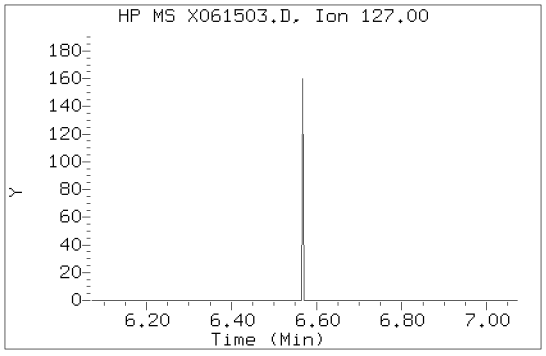
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AFTER

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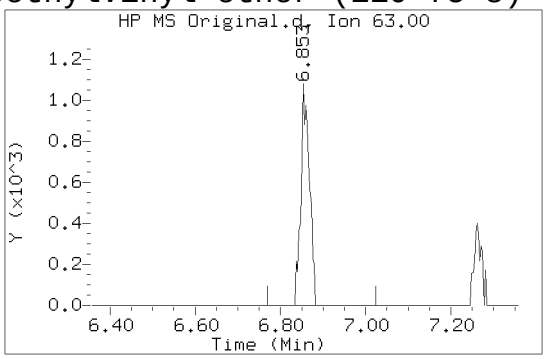
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LabSampID : VSTD001

2-Chloroethylvinyl ether (110-75-8)

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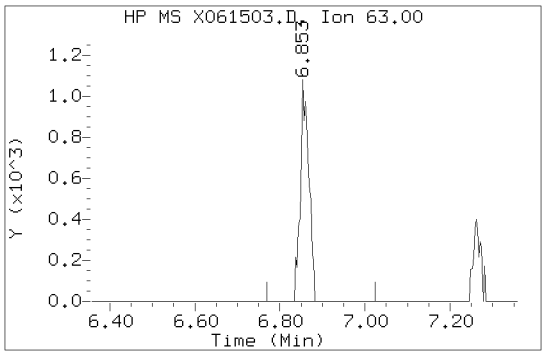
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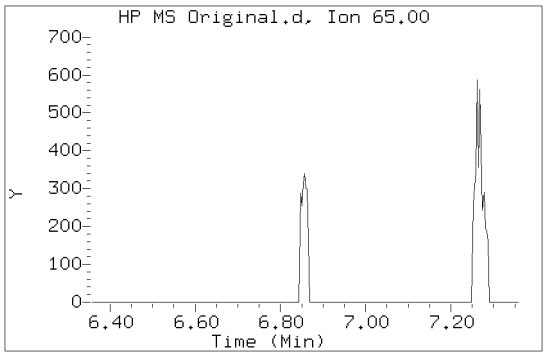
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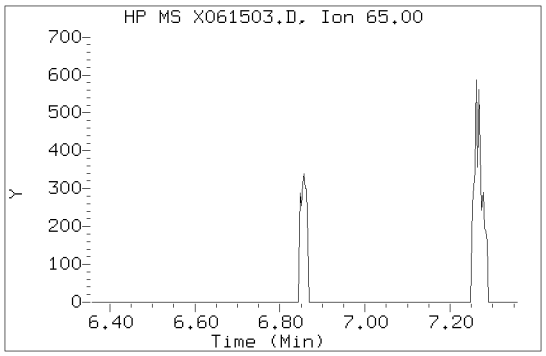
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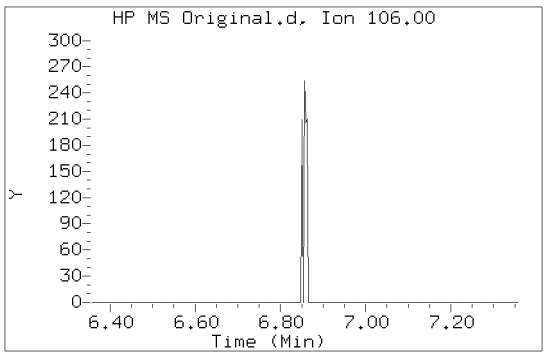
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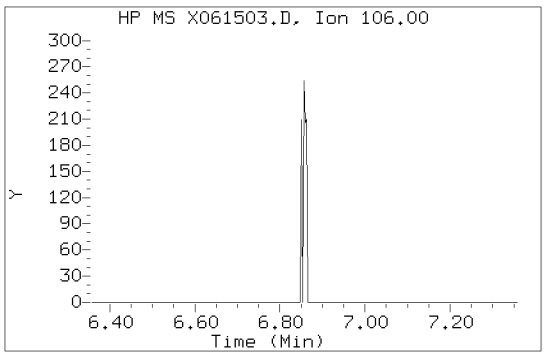
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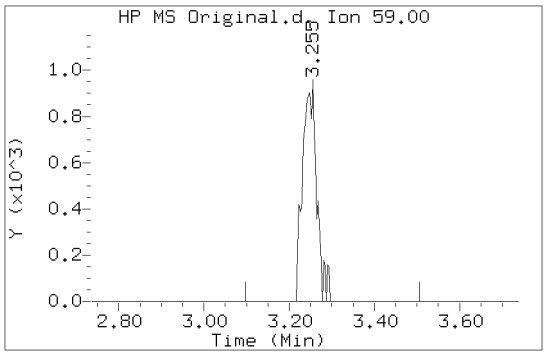


tert-Butyl formate (762-75-4)

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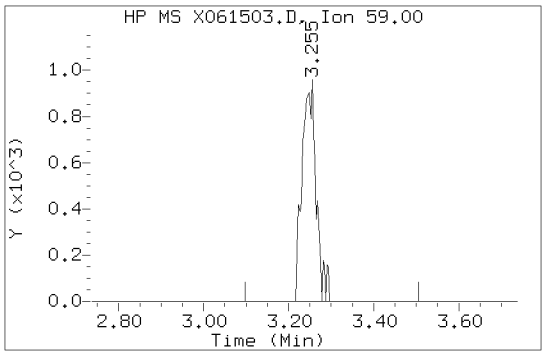
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AFTER

MASS
59
AREA
2194
HEIGHT
959
12-Jul-2024
11:38
s
zaid



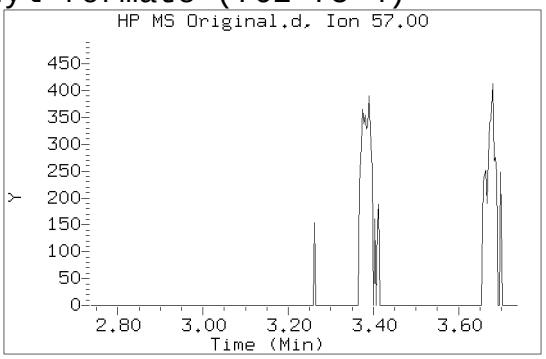
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Inj Date : 15-JUN-2024 14:24
InstruID : voa7.i
LabSampID : VSTD001

tert-Butyl formate (762-75-4)

Reason Code:

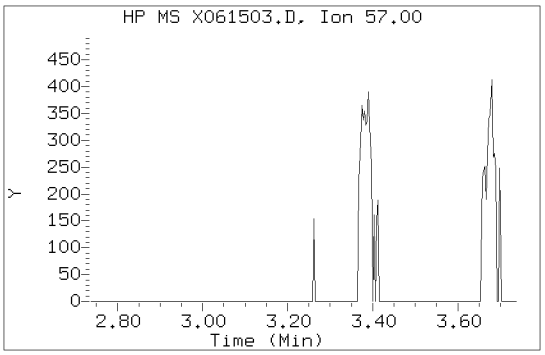
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12-Jul-2024
11:38
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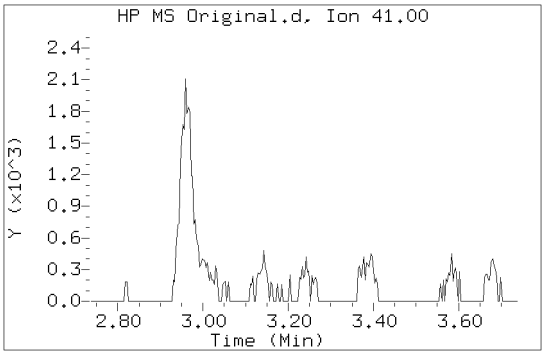
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MASS
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12-Jul-2024
11:38
s
zaid



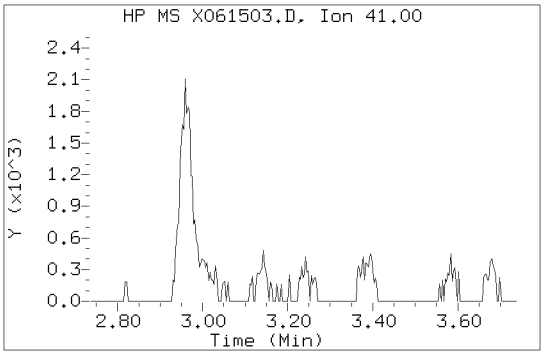
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12-Jul-2024
11:38
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zaid



AFTER

MASS
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HEIGHT
0
12-Jul-2024
11:38
s
zaid

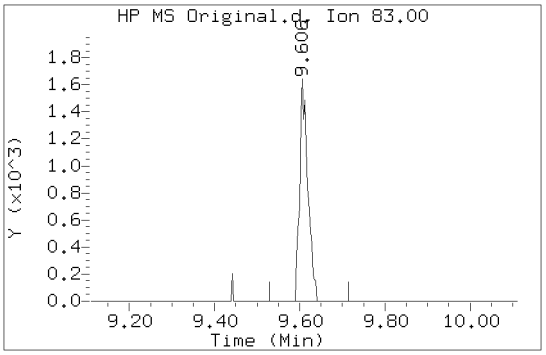


1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

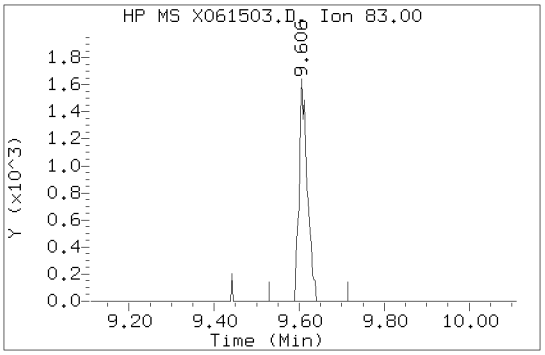
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1643
12-Jul-2024
11:38
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zaid



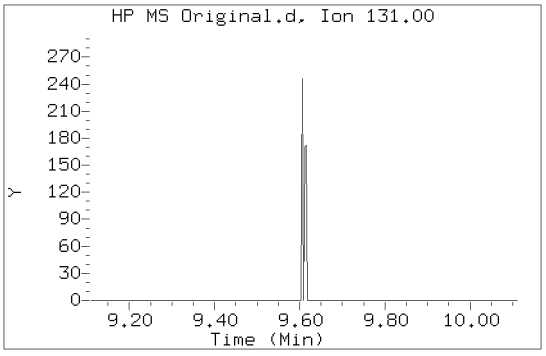
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MASS
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1643
12-Jul-2024
11:38
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zaid



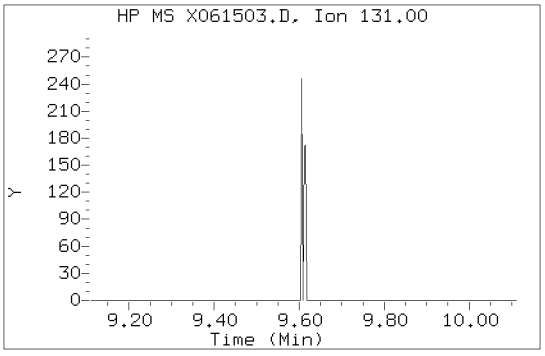
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HEIGHT
0
12-Jul-2024
11:38
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zaid



AFTER

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131
AREA
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HEIGHT
0
12-Jul-2024
11:38
s
zaid



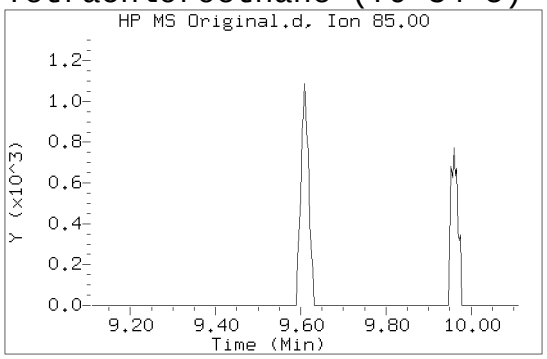
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061503.D
Inj Date : 15-JUN-2024 14:24
InstruID : voa7.i
LabSampID : VSTD001

1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

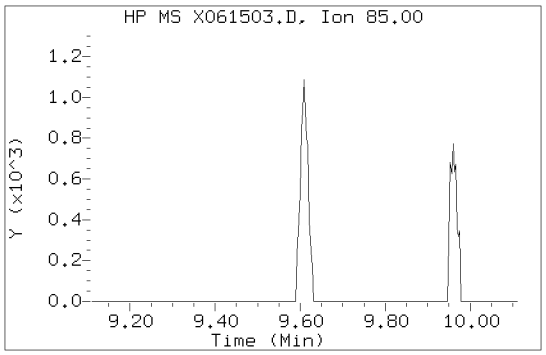
BEFORE

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AREA
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HEIGHT
0
12-Jul-2024
11:38
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zaid



AFTER

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AREA
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HEIGHT
0
12-Jul-2024
11:38
s
zaid

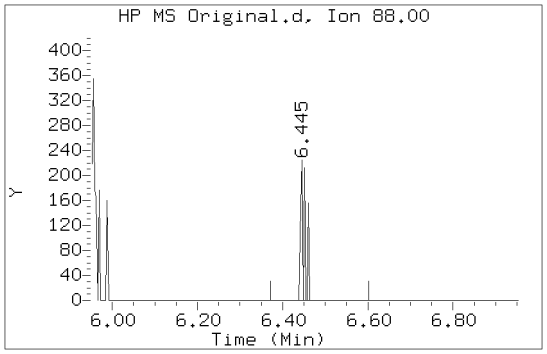


1,4-Dioxane ()

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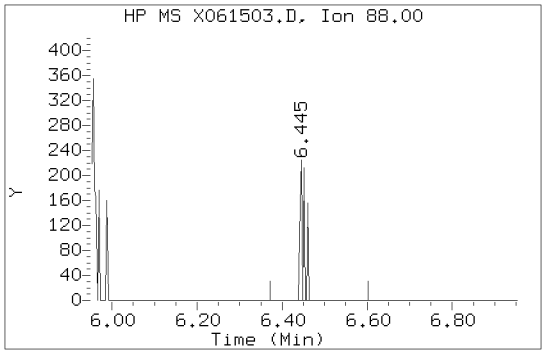
BEFORE

MASS
88
AREA
143
HEIGHT
225
12-Jul-2024
11:38
s
zaid



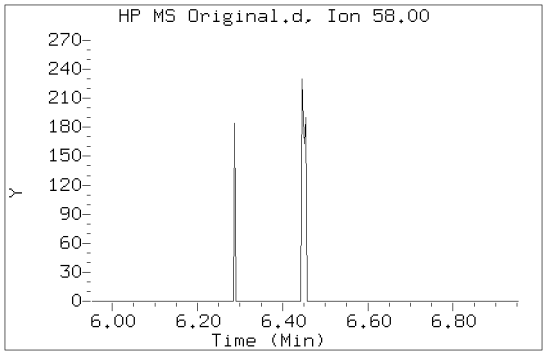
AFTER

MASS
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AREA
143
HEIGHT
225
12-Jul-2024
11:38
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zaid



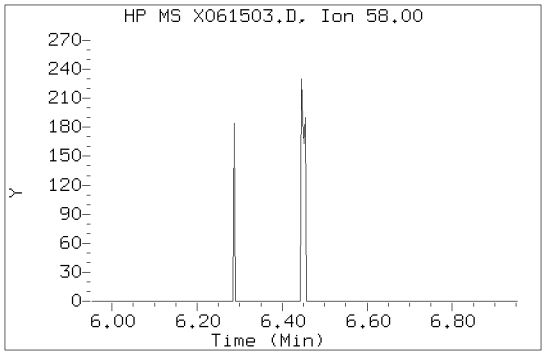
BEFORE

MASS
58
AREA
545
HEIGHT
368
12-Jul-2024
11:38
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zaid



AFTER

MASS
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AREA
545
HEIGHT
368
12-Jul-2024
11:38
s
zaid

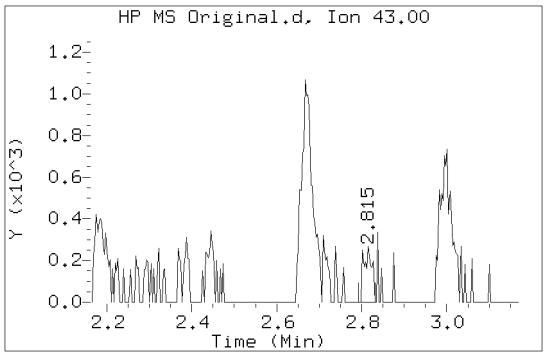


Methyl acetate (79-20-9)

Reason Code:

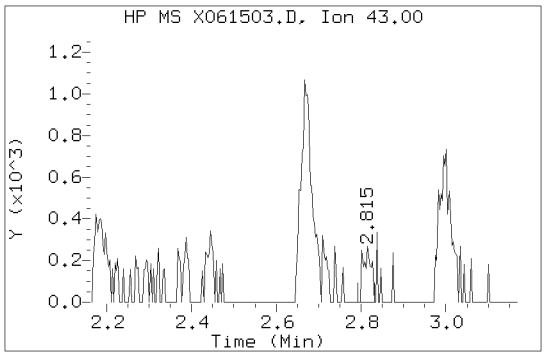
BEFORE

MASS
43
AREA
346
HEIGHT
268
12-Jul-2024
11:38
s
zaid



AFTER

MASS
43
AREA
346
HEIGHT
268
12-Jul-2024
11:38
s
zaid



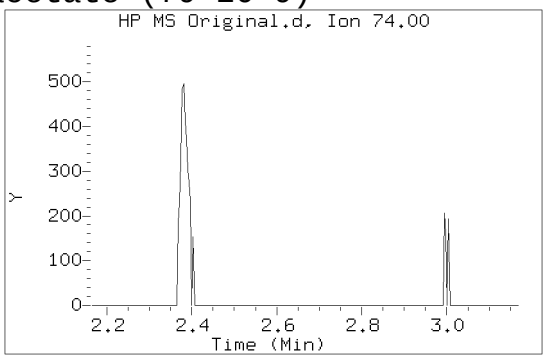
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061503.D
Inj Date : 15-JUN-2024 14:24
InstruID : voa7.i
LabSampID : VSTD001

Methyl acetate (79-20-9)

Reason Code:

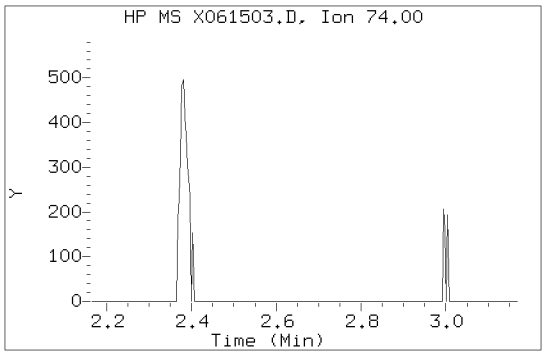
BEFORE

MASS
74
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
74
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

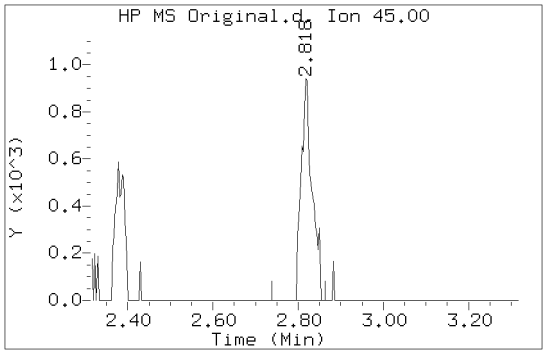


Isopropyl alcohol (67-63-0)

Reason Code:

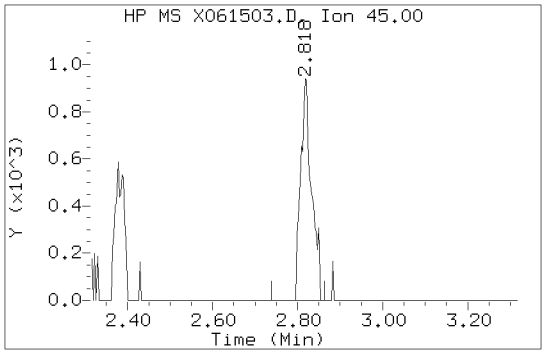
BEFORE

MASS
45
AREA
1689
HEIGHT
941
12-Jul-2024
11:38
s
zaid



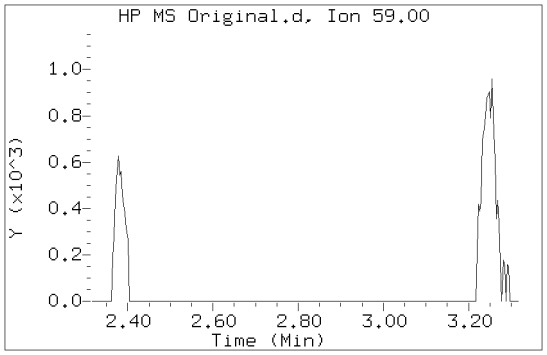
AFTER

MASS
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AREA
1689
HEIGHT
941
12-Jul-2024
11:38
s
zaid



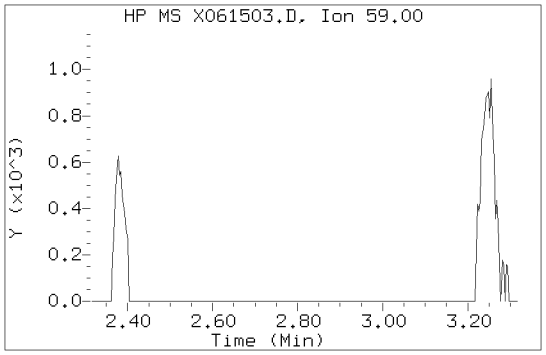
BEFORE

MASS
59
AREA
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HEIGHT
0
12-Jul-2024
11:38
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zaid



AFTER

MASS
59
AREA
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HEIGHT
0
12-Jul-2024
11:38
s
zaid

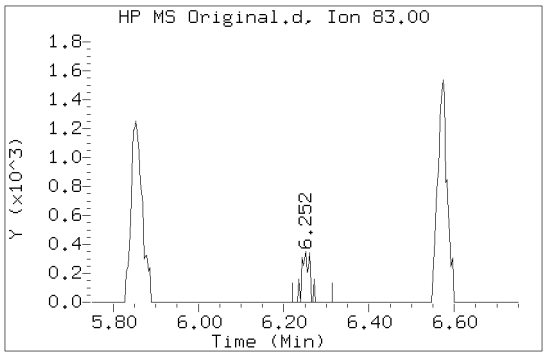


Methylcyclohexane (108-87-2)

Reason Code:

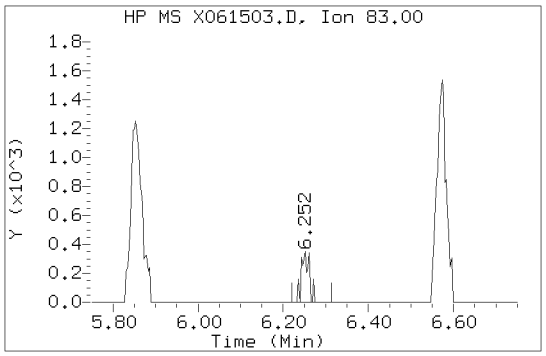
BEFORE

MASS
83
AREA
447
HEIGHT
351
12-Jul-2024
11:38
s
zaid



AFTER

MASS
83
AREA
447
HEIGHT
351
12-Jul-2024
11:38
s
zaid



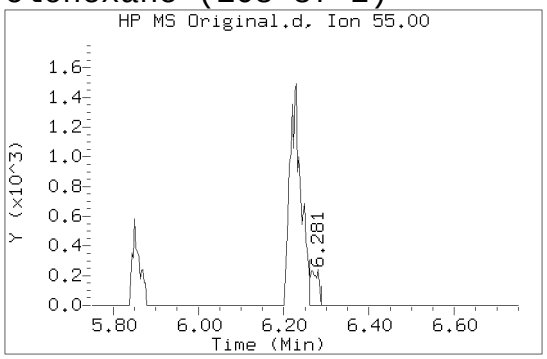
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061503.D
Inj Date : 15-JUN-2024 14:24
InstruID : voa7.i
LabSampID : VSTD001

Methylcyclohexane (108-87-2)

Reason Code:

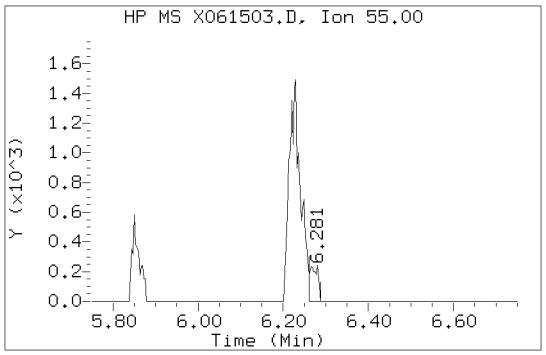
BEFORE

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AREA
312
HEIGHT
241
12-Jul-2024
11:38
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zaid



AFTER

MASS
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312
HEIGHT
241
12-Jul-2024
11:38
s
zaid

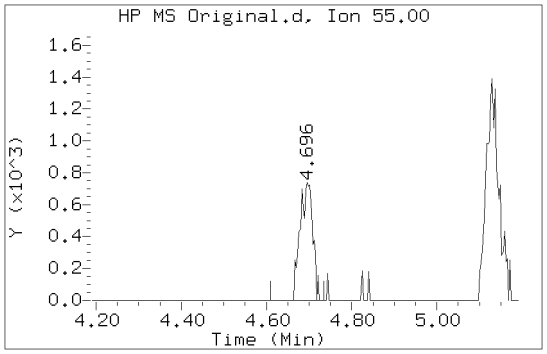


Methyl Acrylate (96-33-3)

Reason Code:

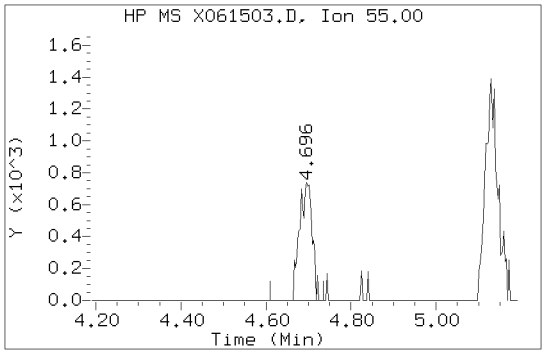
BEFORE

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AREA
1547
HEIGHT
738
12-Jul-2024
11:38
s
zaid



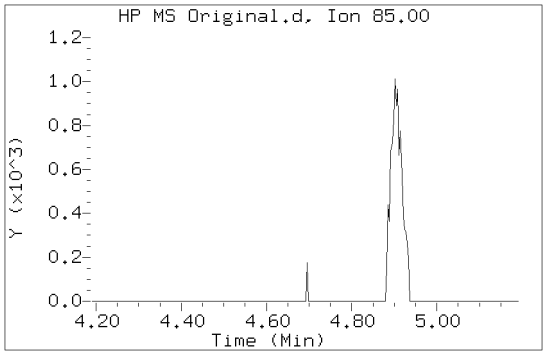
AFTER

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AREA
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HEIGHT
738
12-Jul-2024
11:38
s
zaid



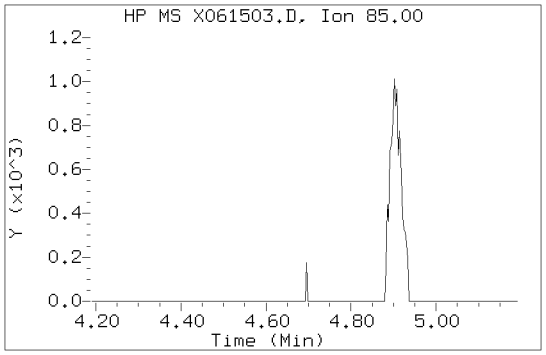
BEFORE

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HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
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AREA
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HEIGHT
0
12-Jul-2024
11:38
s
zaid

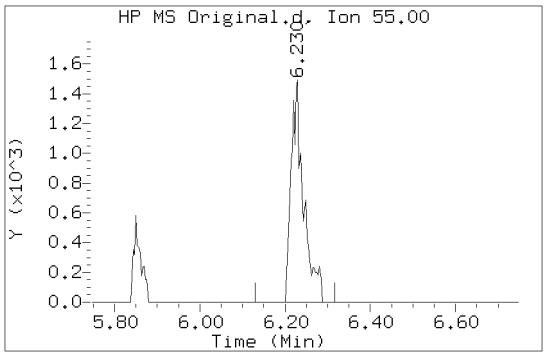


Ethyl Acrylate (140-88-5)

Reason Code:

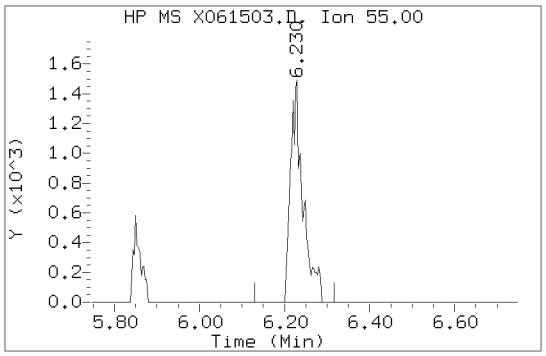
BEFORE

MASS
55
AREA
3026
HEIGHT
1493
12-Jul-2024
11:38
s
zaid



AFTER

MASS
55
AREA
3026
HEIGHT
1493
12-Jul-2024
11:38
s
zaid



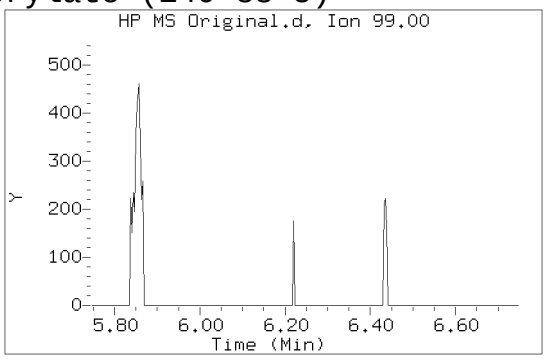
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061503.D
Inj Date : 15-JUN-2024 14:24
InstruID : voa7.i
LabSampID : VSTD001

Ethyl Acrylate (140-88-5)

Reason Code:

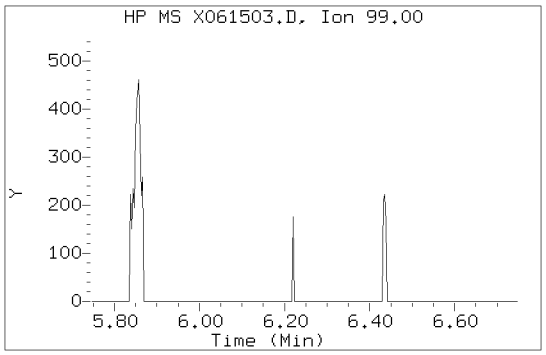
BEFORE

MASS
99
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
99
AREA
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HEIGHT
0
12-Jul-2024
11:38
s
zaid

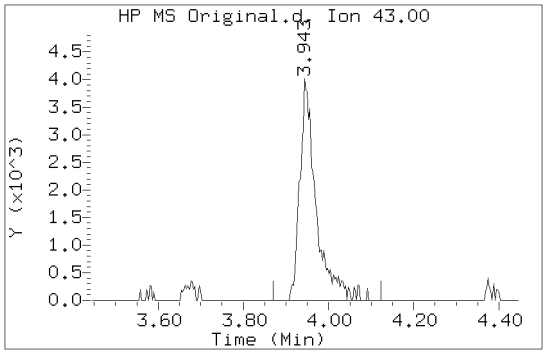


Ethyl Acetate (141-78-6)

Reason Code:

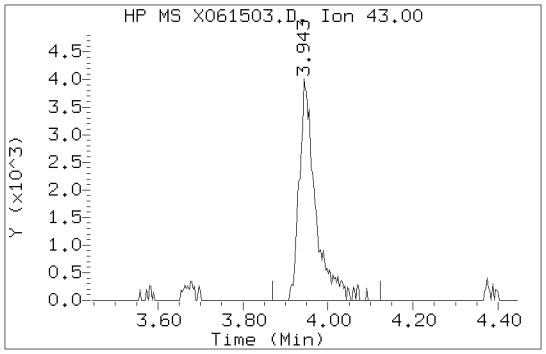
BEFORE

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43
AREA
10732
HEIGHT
4015
12-Jul-2024
11:38
s
zaid



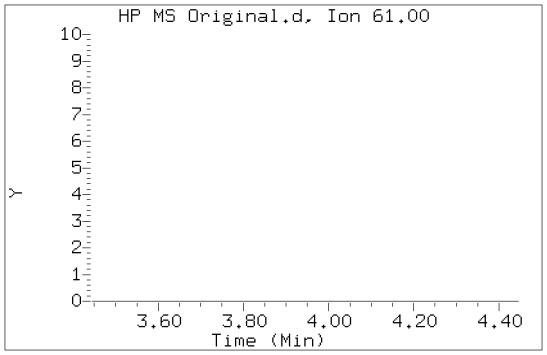
AFTER

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10732
HEIGHT
4015
12-Jul-2024
11:38
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zaid



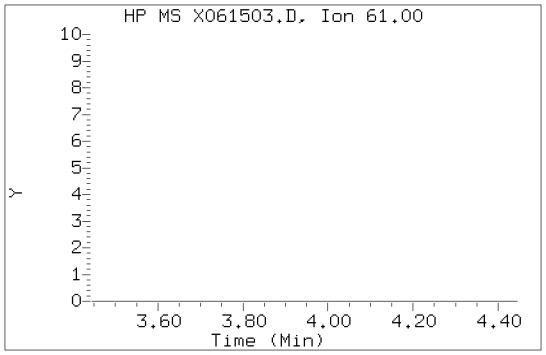
BEFORE

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HEIGHT
0
12-Jul-2024
11:38
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zaid



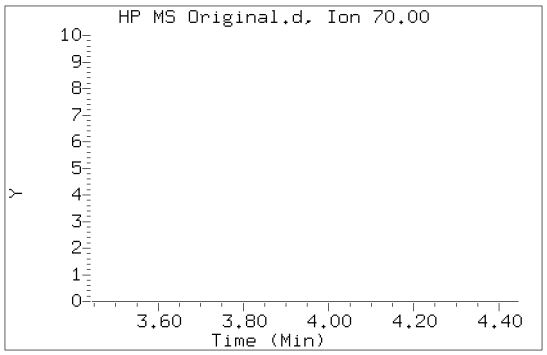
AFTER

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HEIGHT
0
12-Jul-2024
11:38
s
zaid



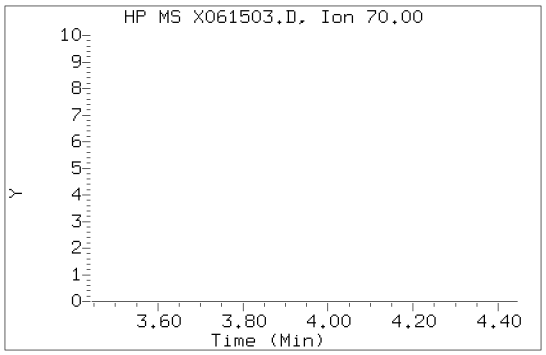
BEFORE

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AREA
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HEIGHT
0
12-Jul-2024
11:38
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zaid



AFTER

MASS
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AREA
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HEIGHT
0
12-Jul-2024
11:38
s
zaid

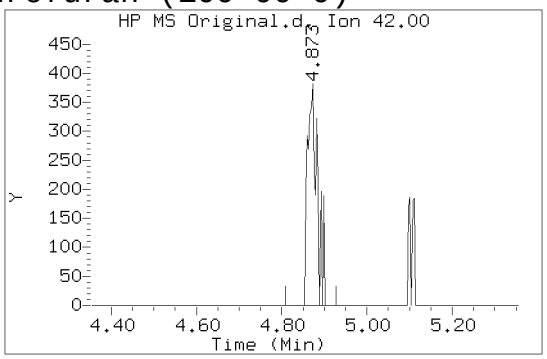


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Inj Date : 15-JUN-2024 14:24
InstruID : voa7.i
LabSampID : VSTD001

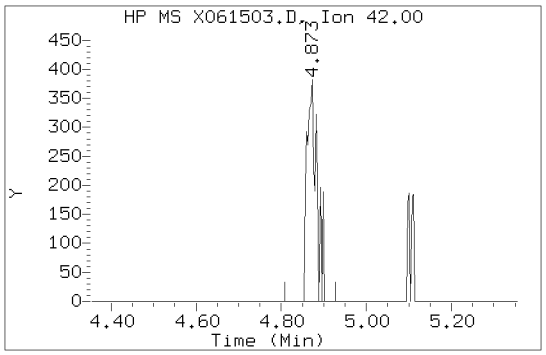
Tetrahydrofuran (109-99-9)

Reason Code:

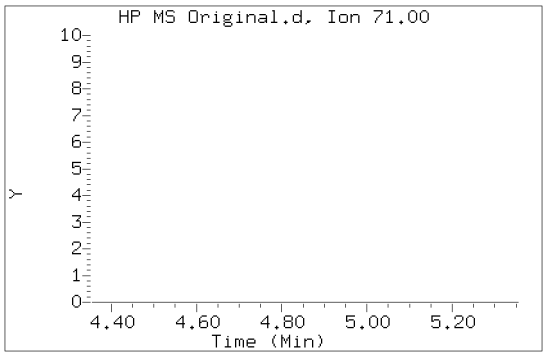
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607
HEIGHT
382
12-Jul-2024
11:38
s
zaid



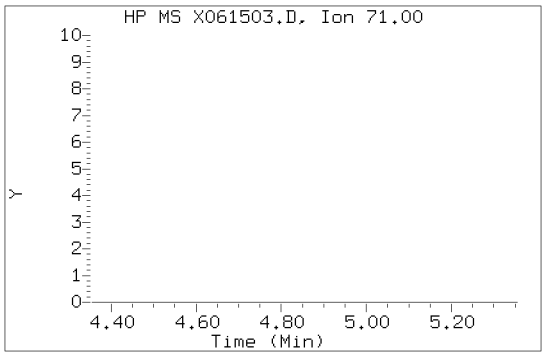
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MASS
42
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HEIGHT
382
12-Jul-2024
11:38
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zaid



BEFORE
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HEIGHT
0
12-Jul-2024
11:38
s
zaid



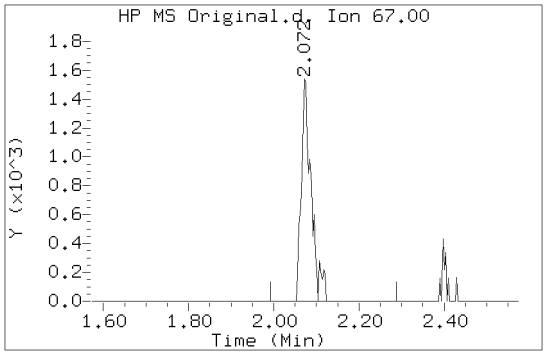
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11:38
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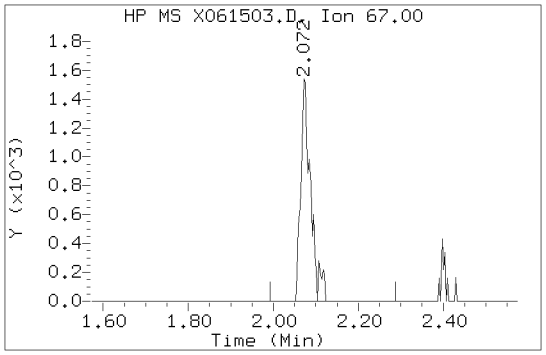
Dichlorofluoromethane (75-43-4)

Reason Code:

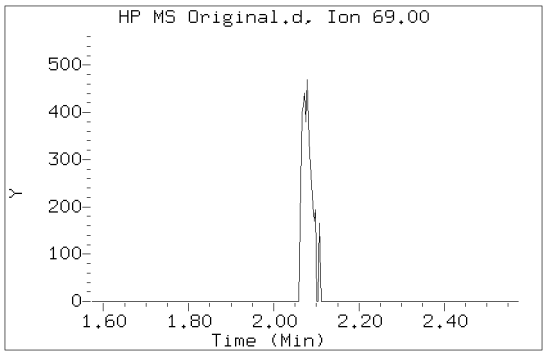
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12-Jul-2024
11:38
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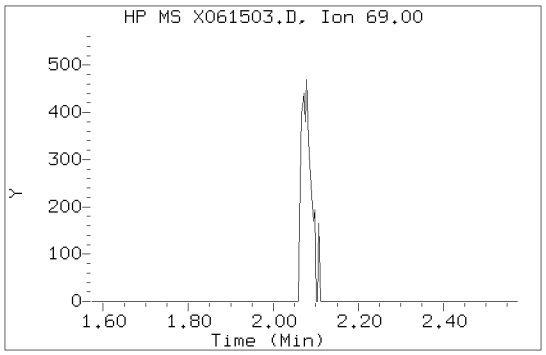
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67
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1540
12-Jul-2024
11:38
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zaid



BEFORE
MASS
69
AREA
0
HEIGHT
0
12-Jul-2024
11:38
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zaid



AFTER
MASS
69
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



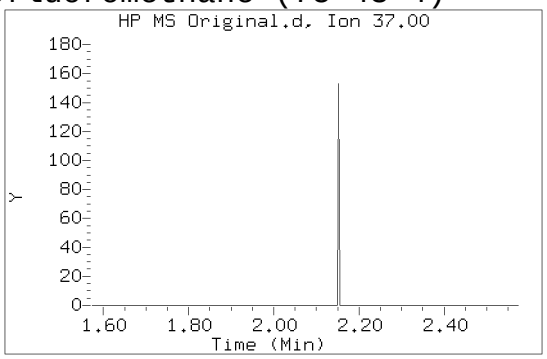
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Inj Date : 15-JUN-2024 14:24
InstruID : voa7.i
LabSampID : VSTD001

Dichlorofluoromethane (75-43-4)

Reason Code:

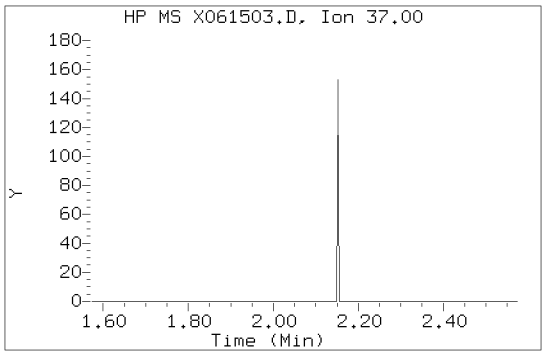
BEFORE

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HEIGHT
0
12-Jul-2024
11:38
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zaid



AFTER

MASS
37
AREA
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HEIGHT
0
12-Jul-2024
11:38
s
zaid

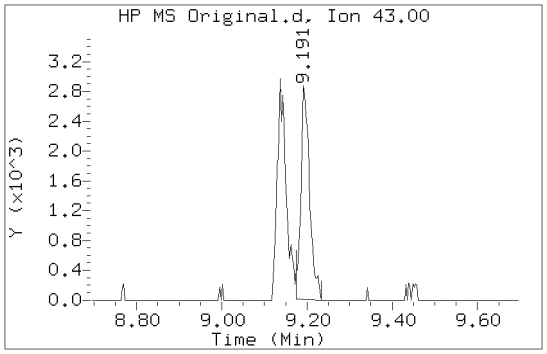


n-Amyl acetate (628-63-7)

Reason Code:

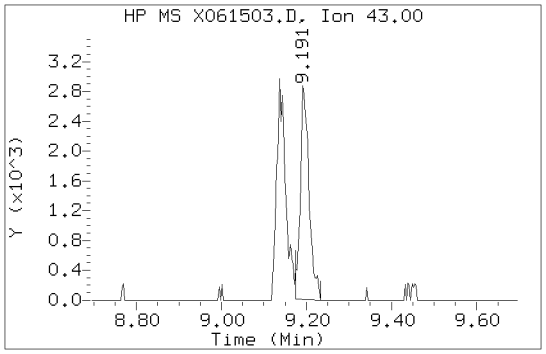
BEFORE

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AREA
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HEIGHT
2867
12-Jul-2024
11:38
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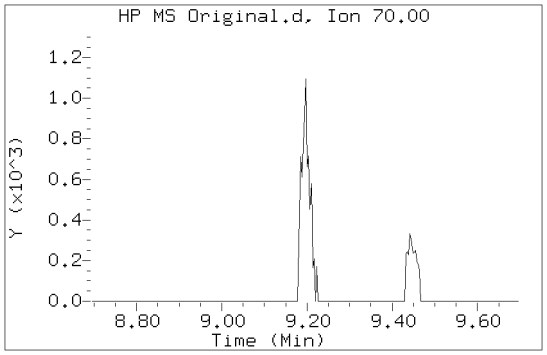
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AREA
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HEIGHT
2867
12-Jul-2024
11:38
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zaid



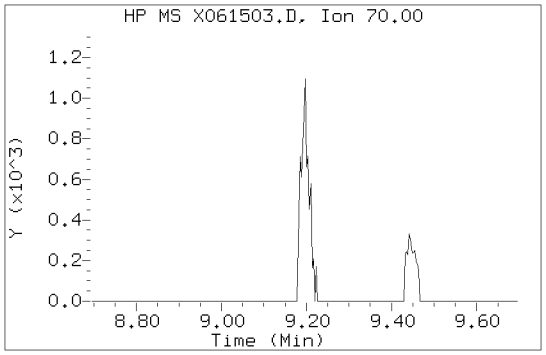
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12-Jul-2024
11:38
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zaid



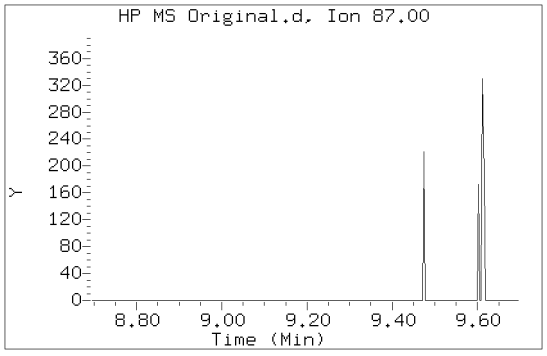
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12-Jul-2024
11:38
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zaid



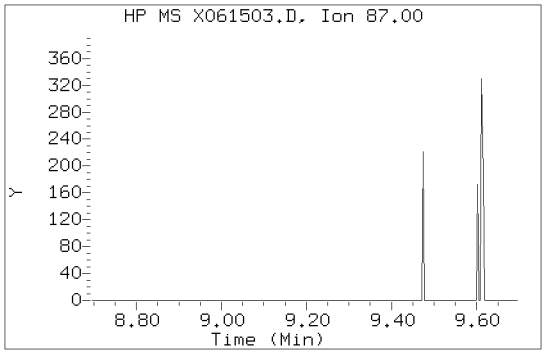
BEFORE

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HEIGHT
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12-Jul-2024
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AFTER

MASS
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AREA
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HEIGHT
0
12-Jul-2024
11:38
s
zaid



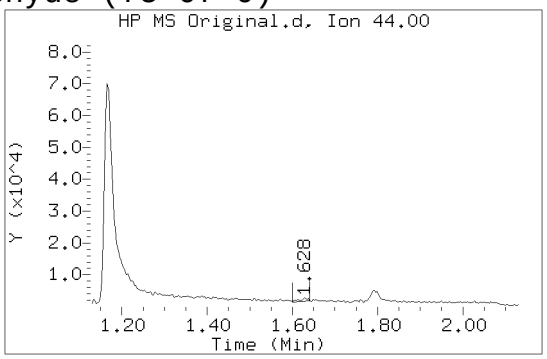
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Inj Date : 15-JUN-2024 14:24
InstruID : voa7.i
LabSampID : VSTD001

Acetaldehyde (75-07-0)

Reason Code:

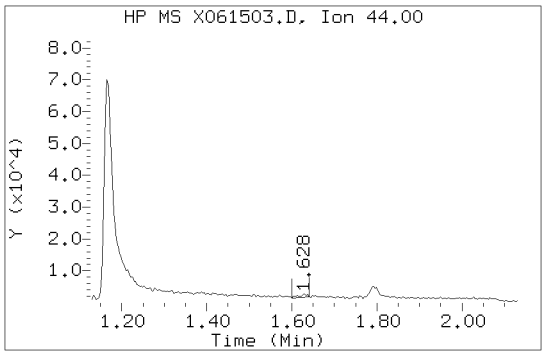
BEFORE

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980
12-Jul-2024
11:38
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zaid



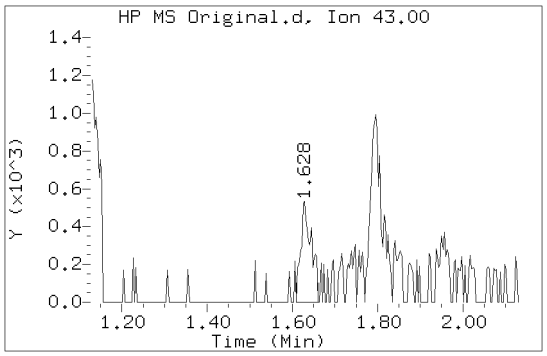
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11:38
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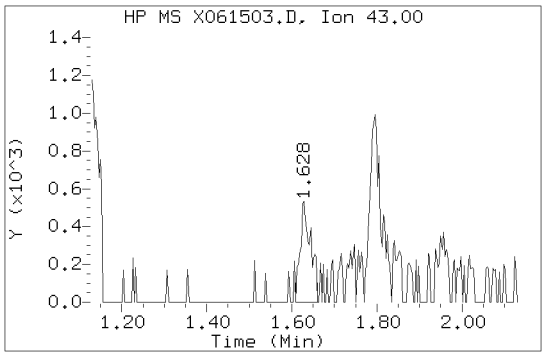
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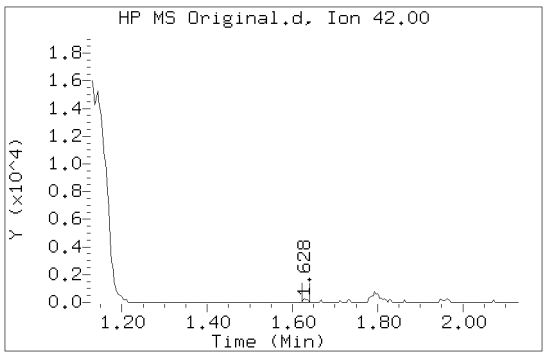
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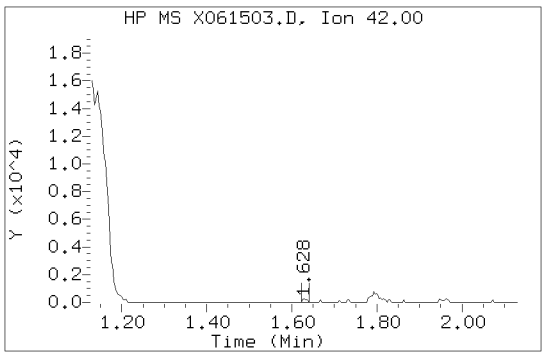
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AFTER

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11:38
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zaid

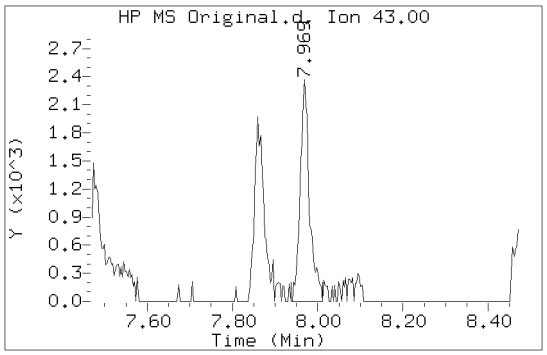


n-Butyl acetate (123-86-4)

Reason Code:

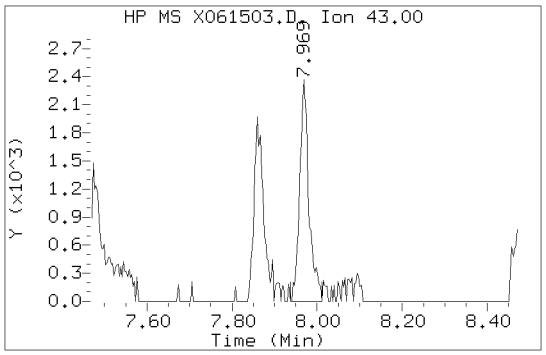
BEFORE

MASS
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HEIGHT
2367
12-Jul-2024
11:38
s
zaid



AFTER

MASS
43
AREA
3629
HEIGHT
2367
12-Jul-2024
11:38
s
zaid



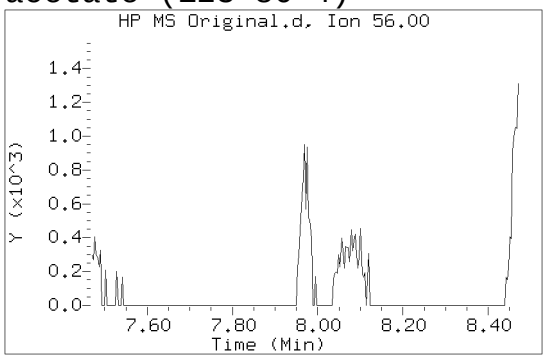
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Inj Date : 15-JUN-2024 14:24
InstruID : voa7.i
LabSampID : VSTD001

n-Butyl acetate (123-86-4)

Reason Code:

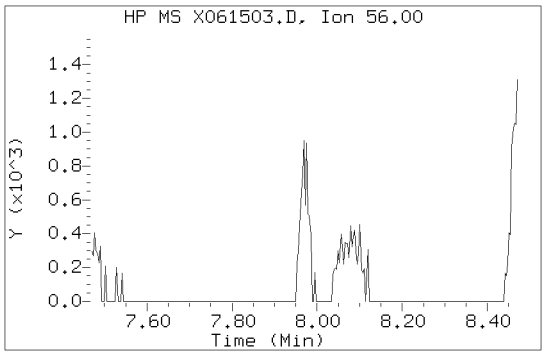
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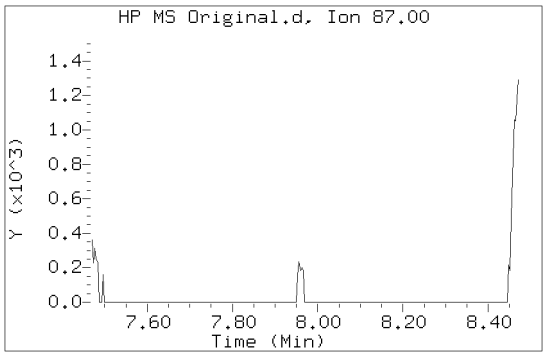
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zaid



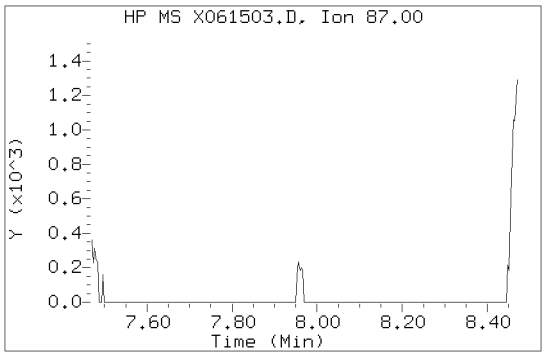
BEFORE

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12-Jul-2024
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zaid



AFTER

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HEIGHT
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11:38
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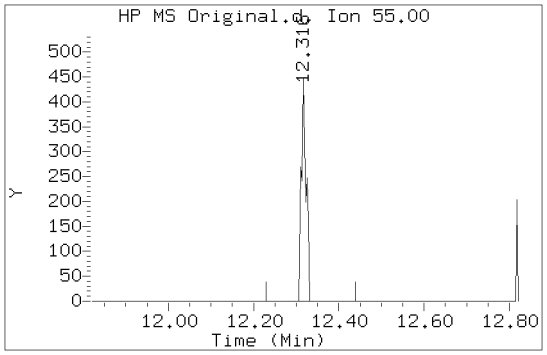


2-Etyhlhexyl Acrylate (103-11-7)

Reason Code:

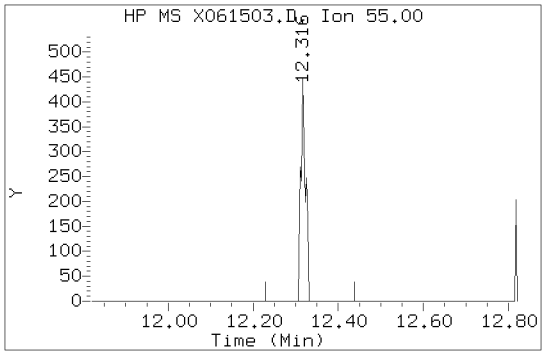
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446
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11:38
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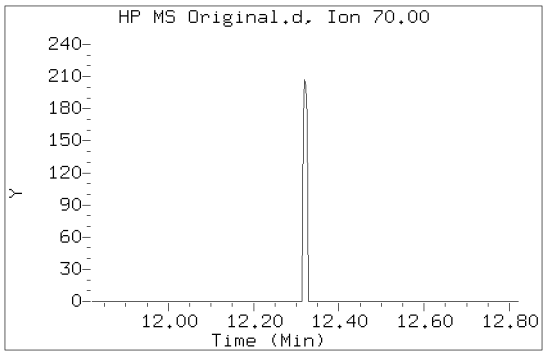
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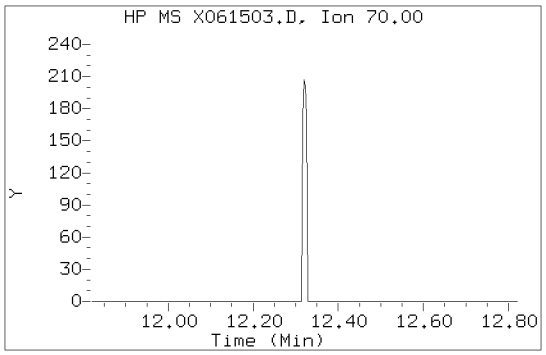
BEFORE

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12-Jul-2024
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AFTER

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HEIGHT
0
12-Jul-2024
11:38
s
zaid

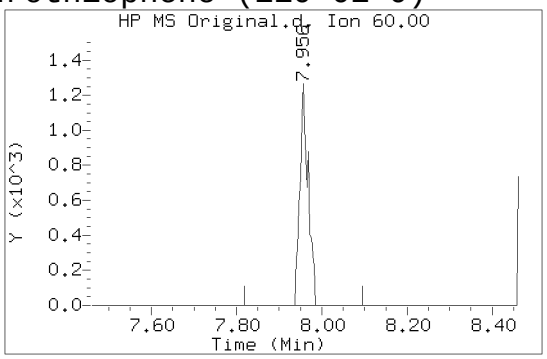


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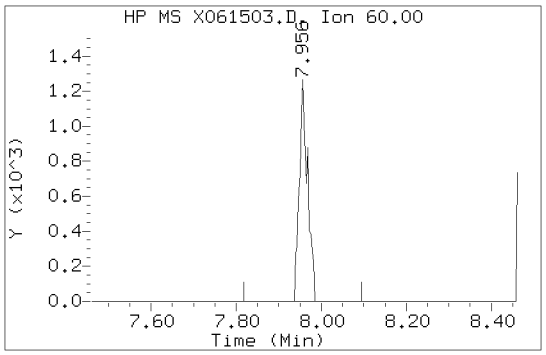
Tetrahydrothiophene (110-01-0)

Reason Code:

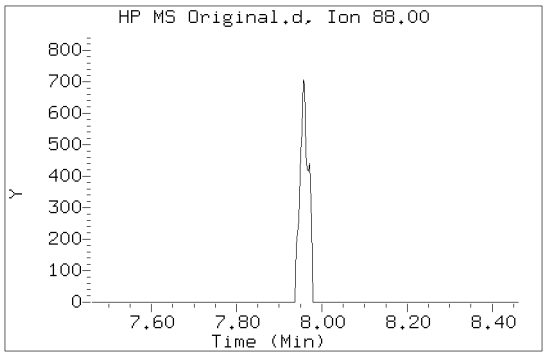
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AREA
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HEIGHT
1266
12-Jul-2024
11:38
s
zaid



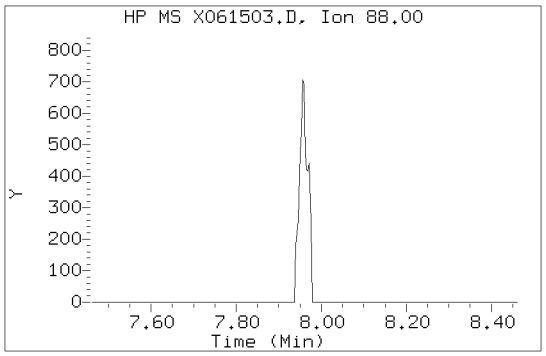
AFTER
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1266
12-Jul-2024
11:38
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zaid



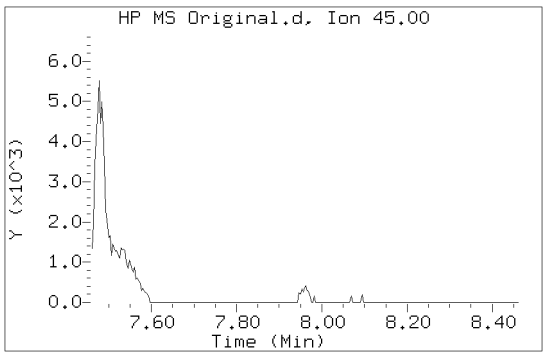
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88
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12-Jul-2024
11:38
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zaid



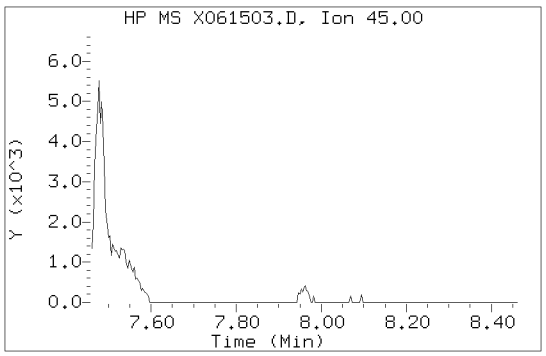
AFTER
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88
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12-Jul-2024
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zaid



BEFORE
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12-Jul-2024
11:38
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zaid



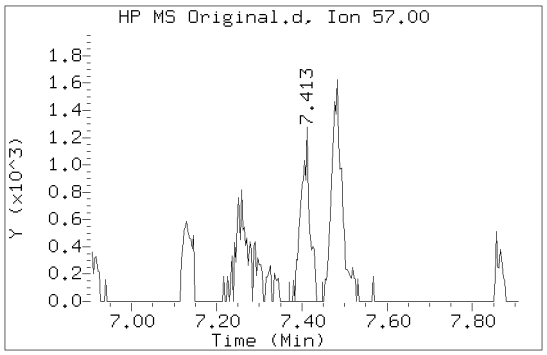
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HEIGHT
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zaid



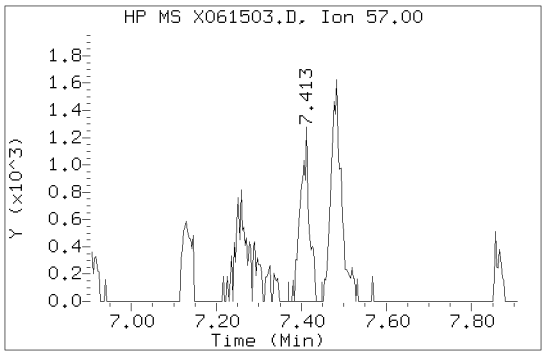
sec-Butyl Ether (6863-58-7)

Reason Code:

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1276
12-Jul-2024
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zaid



AFTER
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AREA
1835
HEIGHT
1276
12-Jul-2024
11:38
s
zaid

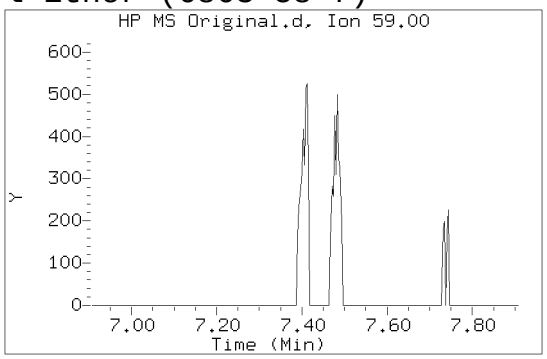


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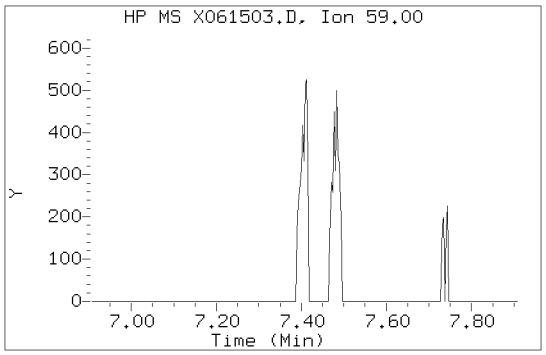
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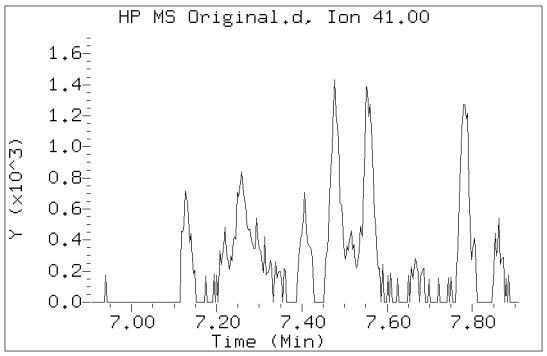
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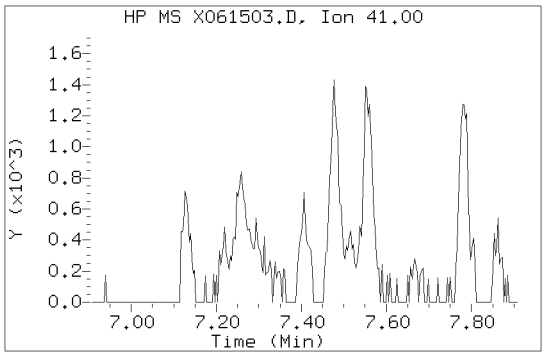
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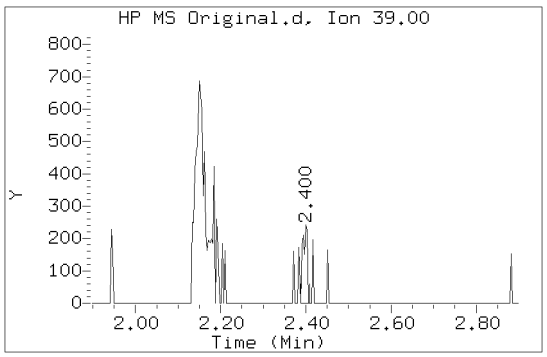
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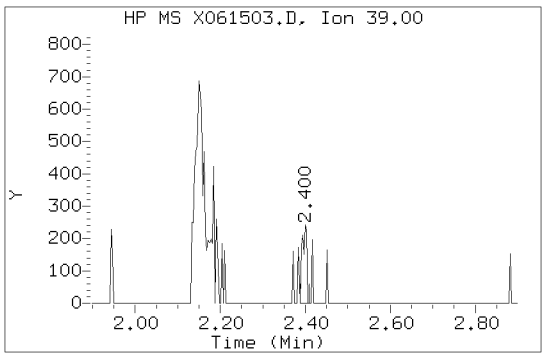
Isoprene (78-79-5)

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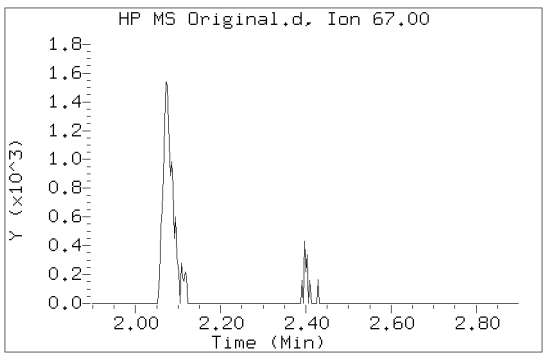
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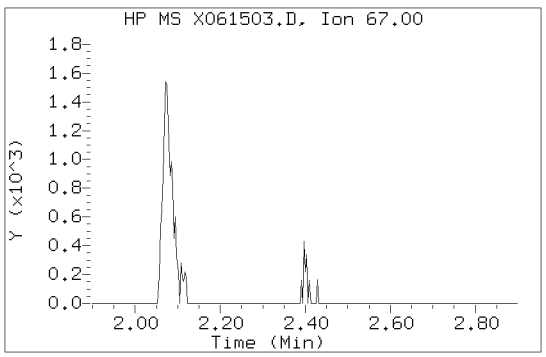
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BEFORE
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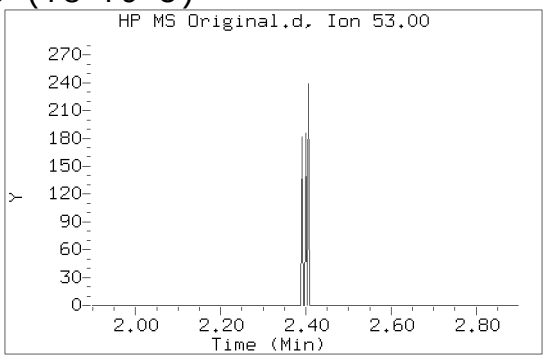
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Inj Date : 15-JUN-2024 14:24
InstruID : voa7.i
LabSampID : VSTD001

Isoprene (78-79-5)

Reason Code:

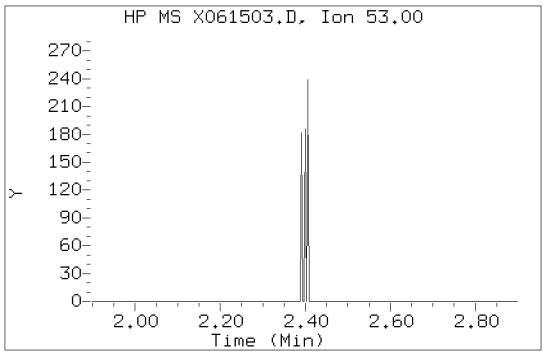
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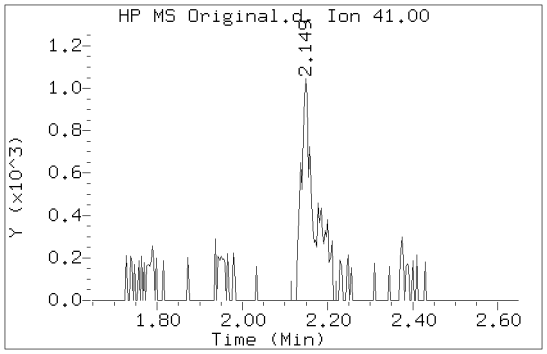


2-Chloropropene (557-98-2)

Reason Code:

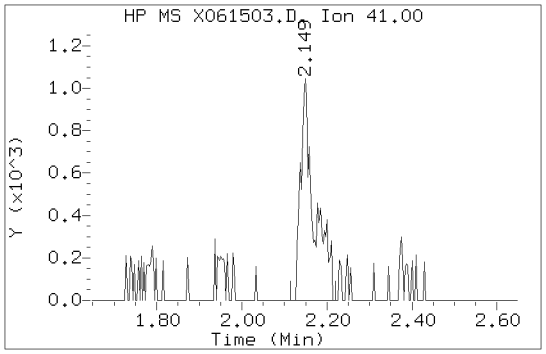
BEFORE

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AFTER

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Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061504.D Page 1
Report Date: 12-Jul-2024 11:38

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061504.D
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Inj Date : 15-JUN-2024 14:46
Operator : AP Inst ID: voa7.i
Smp Info : VSTD002;VSTD002;1;3
Misc Info : HS220328V7;WATER;0;1;
Comment   :
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Meth Date : 12-Jul-2024 11:38 voa7.i Quant Type: ISTD
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Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	5.130	5.130	(1.000)	126989	50.0000	
2 Dichlorodifluoromethane	85	1.297	1.297	(0.253)	4360	2.00000	2.90
159 Dichlorofluoromethane	67	2.078	2.078	(0.405)	5948	2.00000	2.24(M)
3 Chloromethane	50	1.448	1.448	(0.282)	6755	2.00000	2.53(a)
4 Propionitrile	54	4.670	4.670	(0.910)	5593	20.0000	23.40
5 Vinyl Chloride	62	1.535	1.535	(0.299)	5443	2.00000	2.90
6 Bromomethane	94	1.811	1.811	(0.353)	3738	2.00000	2.58
7 Chloroethane	64	1.898	1.898	(0.370)	3631	2.00000	2.94(M)
8 Trichlorofluoromethane	101	2.114	2.114	(0.412)	6842	2.00000	2.61(M)
10 Acetone	43	2.673	2.673	(0.521)	4581	4.00000	5.00(M)
11 1,1-Dichloroethene	96	2.589	2.589	(0.505)	3570	2.00000	2.88
12 Isobutyl Alcohol	43	5.573	5.573	(1.086)	13006	40.0000	44.12
13 Acetonitrile	39	2.962	2.962	(0.578)	4734	20.0000	18.04
14 Allyl Chloride	41	2.962	2.962	(0.578)	12586	2.00000	2.18
15 Iodomethane	142	2.741	2.741	(0.534)	6420	4.00000	7.56
16 Acrylonitrile	53	3.387	3.387	(0.660)	2570	4.00000	4.88
17 Methylene Chloride	84	3.088	3.088	(0.602)	5964	2.00000	2.30
18 Methyl tert-butyl ether	73	3.384	3.384	(0.660)	9601	2.00000	2.93
19 Carbon Disulfide	76	2.795	2.795	(0.545)	24820	4.00000	5.64
20 trans-1,2-Dichloroethene	96	3.380	3.380	(0.659)	3881	2.00000	2.60

21 Vinyl Acetate	43	4.663	4.663 (0.909)	5183	4.00000	4.08(M)
22 1,1-Dichloroethane	63	3.856	3.856 (0.752)	7397	2.00000	2.47

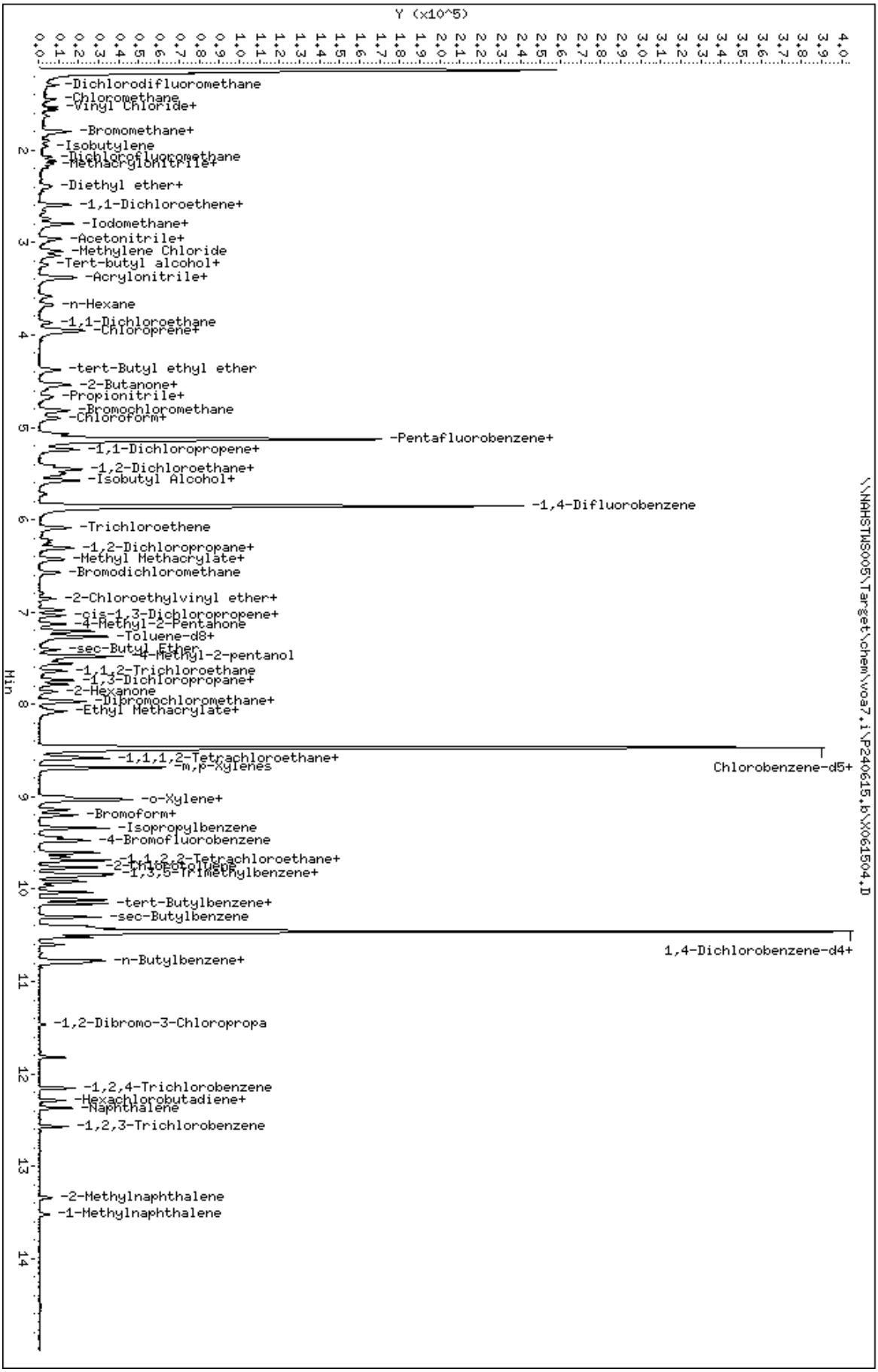
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
23	Chloroprene	53	3.966	3.966	(0.773)	6709	2.00000	2.79(a)
24	2-Butanone	43	4.593	4.593	(0.895)	5001	4.00000	4.38
25	Methacrylonitrile	41	2.149	2.149	(0.419)	3879	2.00000	1.83(a)
26	2,2-Dichloropropane	77	4.528	4.528	(0.883)	6796	2.00000	2.68
27	cis-1,2-Dichloroethene	96	4.548	4.548	(0.887)	4389	2.00000	2.39
28	Chloroform	83	4.898	4.898	(0.955)	8279	2.00000	2.31
29	Bromochloromethane	128	4.811	4.811	(0.938)	2129	2.00000	2.49
$ 30	Dibromofluoromethane	113	5.078	5.078	(0.990)	4411	2.00000	2.22
31	1,1,1-Trichloroethane	97	5.072	5.072	(0.989)	6669	2.00000	2.79
32	1,1-Dichloropropene	75	5.239	5.239	(0.895)	6316	2.00000	3.22
33	1,2-Dichloroethane	62	5.493	5.493	(0.938)	7132	2.00000	2.77
34	Carbon Tetrachloride	117	5.236	5.236	(0.895)	5848	2.00000	3.71
$ 35	1,2-Dichloroethane-d4	65	5.412	5.412	(1.055)	6311	2.00000	2.68
* 36	1,4-Difluorobenzene	114	5.853	5.853	(1.000)	207013	50.0000	
37	Benzene	78	5.457	5.457	(0.932)	17570	2.00000	2.72
38	Trichloroethene	130	6.084	6.084	(1.040)	4355	2.00000	2.91
39	Bromodichloromethane	83	6.567	6.567	(1.122)	6210	2.00000	2.69
40	Methyl Methacrylate	41	6.435	6.435	(1.254)	4678	2.00000	1.79(a)
41	2-Chloroethylvinyl ether	63	6.859	6.859	(1.172)	3297	4.00000	4.67(a)
42	1,2-Dichloropropane	63	6.306	6.306	(1.077)	5229	2.00000	2.89
43	2-Nitropropane	43	6.792	6.792	(1.324)	1657	2.00000	3.95(a)
44	Dibromomethane	93	6.416	6.416	(1.096)	2780	2.00000	3.02
45	4-Methyl-2-Pentanone	43	7.126	7.126	(0.842)	9850	4.00000	4.85
46	cis-1,3-Dichloropropene	75	6.975	6.975	(1.192)	6773	2.00000	3.38
* 47	Chlorobenzene-d5	117	8.467	8.467	(1.000)	200102	50.0000	
$ 48	Toluene-d8	98	7.207	7.207	(0.851)	16366	2.00000	2.05
49	Ethyl Methacrylate	69	8.072	8.072	(1.379)	5298	2.00000	3.05
50	Toluene	91	7.264	7.264	(0.858)	18783	2.00000	2.59
51	trans-1,3-Dichloropropene	75	6.975	6.975	(1.192)	6773	2.00000	3.38
52	2-Hexanone	43	7.859	7.859	(0.928)	6816	4.00000	3.94
53	1,1,2-Trichloroethane	83	7.637	7.637	(0.902)	3483	2.00000	2.33
54	1,3-Dichloropropane	76	7.782	7.782	(0.919)	7570	2.00000	2.45
55	Dibromochloromethane	129	7.975	7.975	(0.942)	4238	2.00000	2.58
56	Tetrachloroethene	164	7.737	7.737	(0.914)	3466	2.00000	2.98
57	1,2-Dibromoethane	107	8.072	8.072	(0.953)	3930	2.00000	2.48
58	1-Chlorohexane	55	8.467	8.467	(1.447)	6865	2.00000	2.67
59	Chlorobenzene	112	8.490	8.490	(1.003)	12490	2.00000	2.59
60	1,1,1,2-Tetrachloroethane	131	8.567	8.567	(1.012)	4146	2.00000	3.42
61	Ethylbenzene	106	8.583	8.583	(1.014)	6293	2.00000	2.65
62	m,p-Xylenes	106	8.682	8.682	(1.025)	15967	4.00000	5.35
63	o-Xylene	106	9.026	9.026	(1.066)	7810	2.00000	2.53
64	Styrene	104	9.043	9.043	(1.068)	13408	2.00000	2.56
66	Bromoform	173	9.207	9.207	(1.087)	2658	2.00000	2.57(T)
67	Isopropylbenzene	105	9.338	9.338	(1.103)	20031	2.00000	2.89
68	1,1,2,2-Tetrachloroethane	83	9.605	9.605	(0.919)	5353	2.00000	2.60
$ 69	4-Bromofluorobenzene	95	9.473	9.473	(1.119)	7721	2.00000	2.17
* 70	1,4-Dichlorobenzene-d4	152	10.457	10.457	(1.000)	96430	50.0000	
71	1,2,3-Trichloropropane	75	9.650	9.650	(0.923)	6201	2.00000	2.82
72	trans-1,4-Dichloro-2-butene	53	9.657	9.657	(1.140)	1262	2.00000	3.05
73	n-Propylbenzene	91	9.689	9.689	(0.927)	23920	2.00000	3.33
74	Bromobenzene	156	9.605	9.605	(0.919)	5157	2.00000	3.10
75	1,3,5-Trimethylbenzene	105	9.837	9.837	(0.941)	17230	2.00000	3.52

76	2-Chlorotoluene	91	9.766	9.766 (0.934)	15070	2.00000	3.00
77	4-Chlorotoluene	91	9.859	9.859 (0.943)	17334	2.00000	3.10

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
78 tert-Butylbenzene	119	10.116	10.116	(0.967)	13885	2.00000	3.04
79 1,2,4-Trimethylbenzene	105	10.158	10.158	(0.971)	16705	2.00000	3.13
81 sec-Butylbenzene	105	10.303	10.303	(0.985)	18544	2.00000	3.33
82 p-Isopropyltoluene	119	10.425	10.425	(0.997)	17126	2.00000	3.40
83 1,3-Dichlorobenzene	146	10.403	10.403	(0.995)	9329	2.00000	3.11
84 1,4-Dichlorobenzene	146	10.473	10.473	(1.002)	9700	2.00000	2.88
87 n-Butylbenzene	91	10.772	10.772	(1.030)	16170	2.00000	3.23
88 1,2-Dichlorobenzene	146	10.795	10.795	(1.032)	8741	2.00000	2.96
89 1,2-Dibromo-3-Chloropropane	75	11.464	11.464	(1.096)	751	2.00000	2.63
90 1,2,4-Trichlorobenzene	180	12.155	12.155	(1.162)	5210	2.00000	3.61
91 Hexachlorobutadiene	225	12.284	12.284	(1.175)	2304	2.00000	3.31
92 Naphthalene	128	12.370	12.370	(1.183)	10913	2.00000	2.63
93 1,2,3-Trichlorobenzene	182	12.570	12.570	(1.202)	3964	2.00000	2.63
135 1,4-Dioxane	88	6.448	6.448	(1.257)	722	40.0000	56.61(M)
146 Methyl acetate	43	2.988	2.988	(0.583)	3471	2.00000	2.51(Ta)
138 Freon TF	101	2.589	2.589	(0.505)	3581	2.00000	3.04
139 Diethyl ether	59	2.377	2.377	(0.463)	2295	2.00000	2.47
140 1,3-Butadiene	54	1.564	1.564	(0.305)	1902	2.00000	3.01(a)
141 Cyclohexane	56	5.113	5.113	(0.997)	9369	2.00000	3.54
147 Methylcyclohexane	83	6.252	6.252	(1.068)	1703	2.00000	2.81
132 n-Butanol	56	6.223	6.223	(1.213)	1394	40.0000	34.47(TM)
131 Methyl Acrylate	55	4.695	4.695	(0.915)	4529	2.00000	2.04
133 Ethyl Acrylate	55	6.223	6.223	(1.213)	7923	2.00000	2.21(M)
136 n-Hexane	57	3.679	3.679	(0.717)	4304	2.00000	3.34
142 Tetrahydrofuran	42	4.866	4.866	(0.949)	1504	4.00000	7.72
148 Tert-butyl alcohol	59	3.242	3.242	(0.632)	5708	40.0000	60.90
149 Isopropyl alcohol	45	2.818	2.818	(0.549)	4553	40.0000	42.64(M)
151 4-Methyl-2-pentanol	45	7.480	7.480	(0.883)	33216	40.0000	57.35
166 1,2,3-Trimethylbenzene	105	10.518	10.518	(1.006)	12208	2.00000	2.45
167 Ethanol	45	2.300	2.300	(0.448)	850	40.0000	51.51(T)
172 tert-Butyl formate	59	3.242	3.242	(0.632)	5791	4.00000	5.07
173 3,3-Dimethyl-1-butanol	57	8.072	8.072	(0.953)	7547	40.0000	63.30
174 tert-Amyl methyl ether	73	5.580	5.580	(1.088)	11736	2.00000	2.85
175 tert-Butyl ethyl ether	59	4.374	4.374	(0.853)	11060	2.00000	2.55
157 2-Methylnaphthalene	142	13.345	13.345	(1.276)	3328	2.00000	2.21
156 Diisopropyl ether	45	3.943	3.943	(0.769)	12927	2.00000	2.56(T)
171 1-Methylnaphthalene	142	13.521	13.521	(1.293)	3257	2.00000	2.44
130 Ethyl Acetate	43	3.943	3.943	(0.769)	25930	2.00000	3.06(aM)
176 tert-Amyl alcohol	59	5.512	5.512	(1.075)	5269	40.0000	47.10
160 Epichlorohydrin	57	6.911	6.911	(1.181)	1017	8.00000	12.59
161 Butyl acrylate	55	8.998	8.998	(1.063)	9733	2.00000	3.09(a)
182 Isobutylene	56	1.953	1.953	(0.381)	144	2.00000	1.81(aAM)
183 Isopropyl Acetate	43	5.573	5.573	(0.952)	13006	2.00000	2.56(aA)
184 n-Amyl acetate	43	9.197	9.197	(1.086)	9084	2.00000	3.28(aAM)
185 Acetaldehyde	44	1.628	1.628	(0.317)	2195	8.00000	6.65(AM)
186 n-Butyl acetate	43	7.965	7.965	(0.941)	7800	2.00000	2.47(aAM)
187 2-Etyhlhexyl Acrylate	55	12.319	12.319	(1.178)	633	2.00000	3.98(aAM)
188 Tetrahydrothiophene	60	7.962	7.962	(0.940)	4279	2.00000	2.54(aAM)
189 sec-Butyl Ether	57	7.406	7.406	(0.875)	3772	2.00000	0.48(aAM)
190 Isoprene	39	2.406	2.406	(0.469)	1099	2.00000	3.16(aAM)
191 2-Chloropropene	41	2.149	2.149	(0.419)	3879	2.00000	1.77(aA)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
    exceeded maximum amount.
M - Compound response manually integrated.

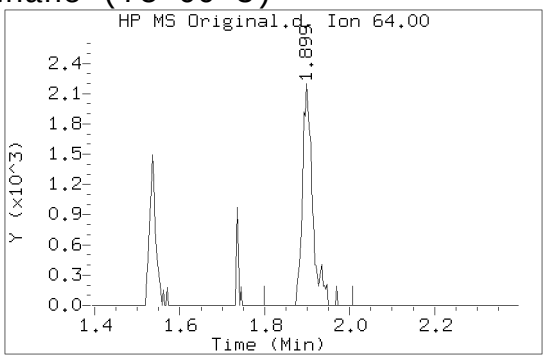

Y (x10^5)
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride+
-Bromomethane+
-Isobutylene
-Dichlorofluoromethane
-Methacrylonitrile+
-Diethyl ether+
-1,1-Dichloroethene+
-Iodomethane+
-Acetonitrile+
-Methylene Chloride
-Tert-butyl alcohol+
-Acrylonitrile+
-n-Hexane
-1,1-Dichloroethane
-Chloroprene+
-tert-Butyl ethyl ether
-2-Butanone+
-Propionitrile+
-Bromochloromethane
-Chloroform+
-Pentafluorobenzene+
-1,1-Dichloropropene+
-1,2-Dichloroethane+
-Isobutyl Alcohol+
-1,4-Difluorobenzene
-Trichloroethene
-1,2-Dichloropropane+
-Methyl Methacrylate+
-Bromodichloromethane
-2-Chloroethylvinyl ether+
-cis-1,3-Dichloropropene+
-4-Methyl-2-Pentanone
-Toluene-d8+
-sec-Butyl Ether
-4-Methyl-2-pentanol
-1,1,2-Trichloroethane
-1,3-Dichloropropane+
-2-Hexanone
-Dibromochloromethane+
-Ethyl Methacrylate+
-1,1,1,2-Tetrachloroethane+
-m,p-Xylenes
Chlorobenzene-d5+
-o-Xylene+
-Bromoform+
-Isopropylbenzene
-4-Bromofluorobenzene
-1,1,2,2-Tetrachloroethane+
-2-Chlorotoluene
-1,3,5-Trimethylbenzene+
-tert-Butylbenzene+
-sec-Butylbenzene
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-1,2-Dibromo-3-Chloropropa
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene+
-Naphthalene
-1,2,3-Trichlorobenzene
-2-Methylnaphthalene
-1-Methylnaphthalene
Min
\\NAHSTWS005\Target\chem\voa7,i\P240615,b\X061504,D
Data File: \\NAHSTWS005\Target\chem\voa7,i\P240615,b\X061504,D
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Client ID: VSTD002
Sample Info: VSTD002,VSTD002,1,3
Purge Volume: 5.0
Column phase: DB624
Instrument: voa7,i
Operator: AP
Column diameter: 0.18
Page 1

Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061504.D
Inj Date : 15-JUN-2024 14:46
InstruID : voa7.i
LabSampID : VSTD002

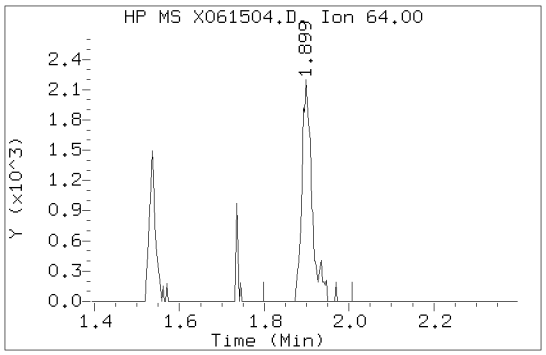
Chloroethane (75-00-3)

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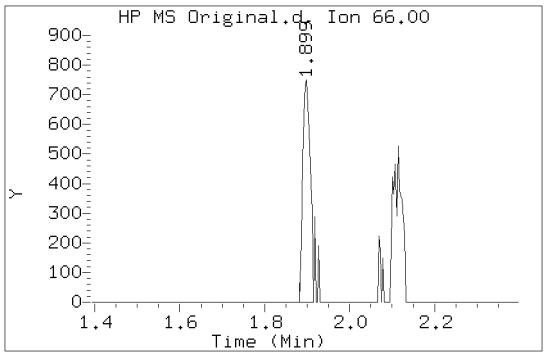
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11:38
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zaid



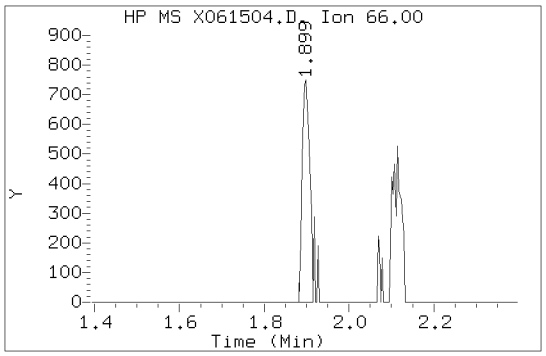
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BEFORE
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11:38
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zaid



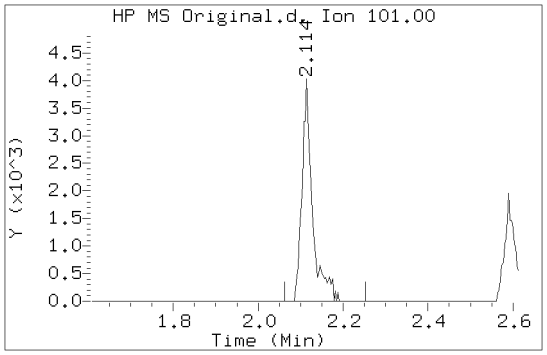
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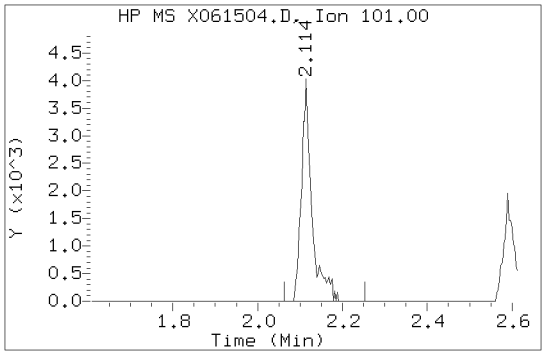
Trichlorofluoromethane (75-69-4)

Reason Code:

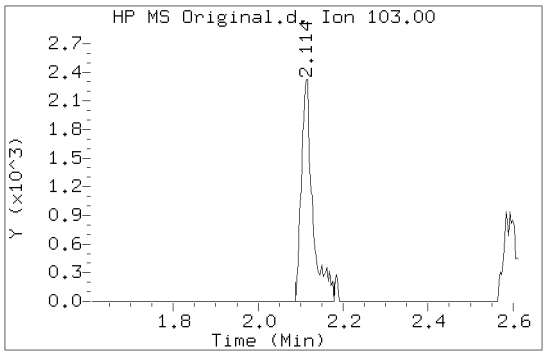
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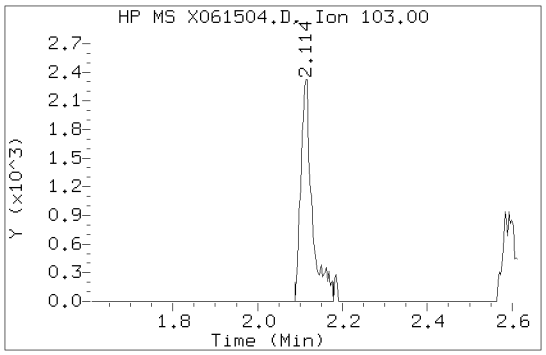
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12-Jul-2024
11:38
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BEFORE
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AREA
4287
HEIGHT
2322
12-Jul-2024
11:38
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zaid



AFTER
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103
AREA
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HEIGHT
2322
12-Jul-2024
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zaid

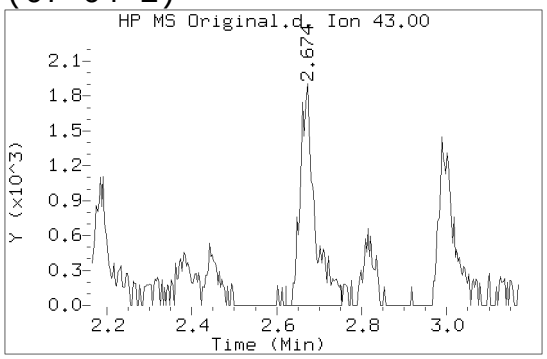


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InstruID : voa7.i
LabSampID : VSTD002

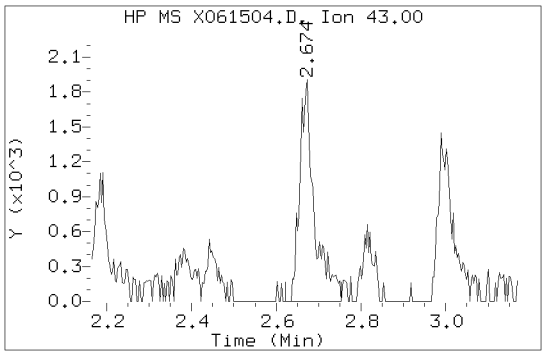
Acetone (67-64-1)

Reason Code:

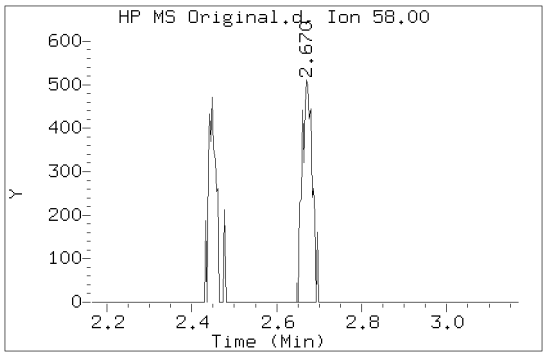
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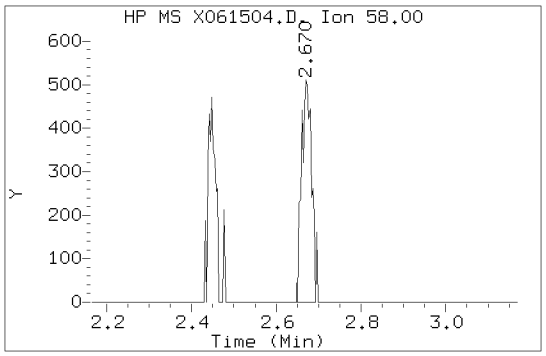
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HEIGHT
1906
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11:38
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BEFORE
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820
HEIGHT
511
12-Jul-2024
11:38
s
zaid



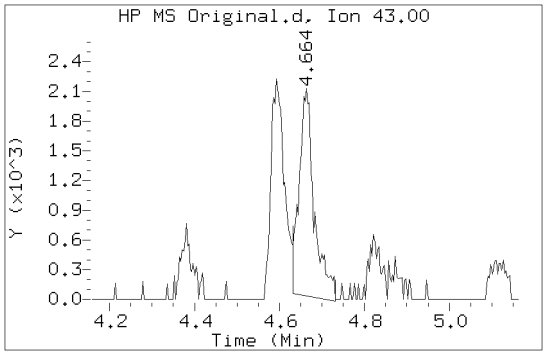
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511
12-Jul-2024
11:38
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zaid



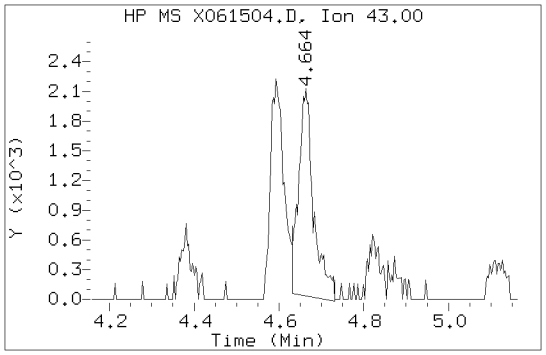
Vinyl Acetate (108-05-4)

Reason Code:

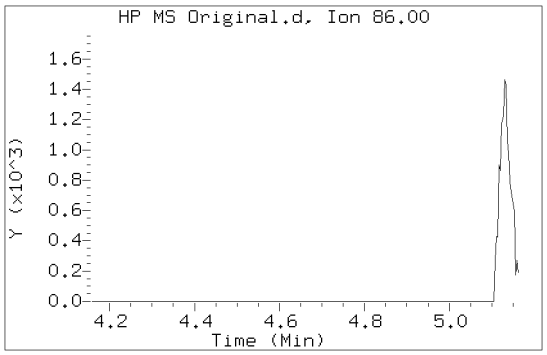
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11:38
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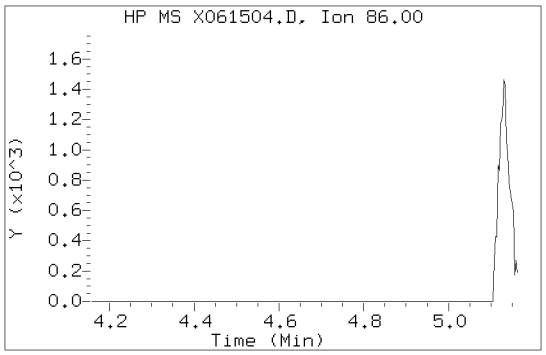
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2094
12-Jul-2024
11:38
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zaid



BEFORE
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AREA
0
HEIGHT
0
12-Jul-2024
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zaid



AFTER
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AREA
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HEIGHT
0
12-Jul-2024
11:38
s
zaid



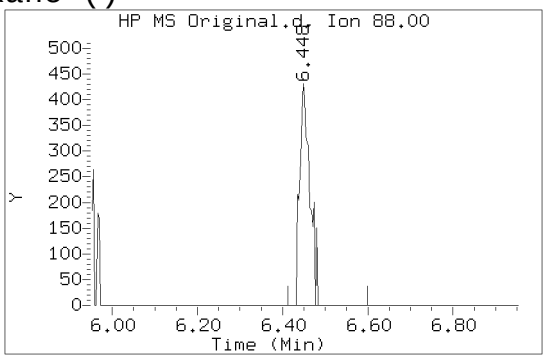
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Inj Date : 15-JUN-2024 14:46
InstruID : voa7.i
LabSampID : VSTD002

1,4-Dioxane ()

Reason Code:

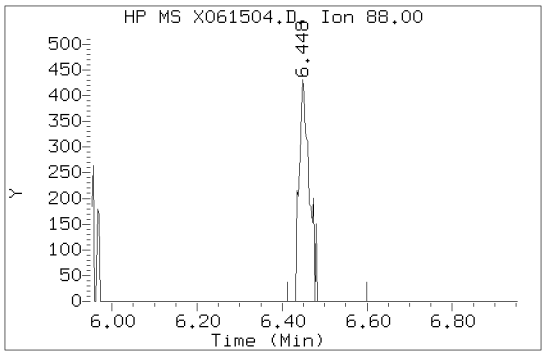
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11:38
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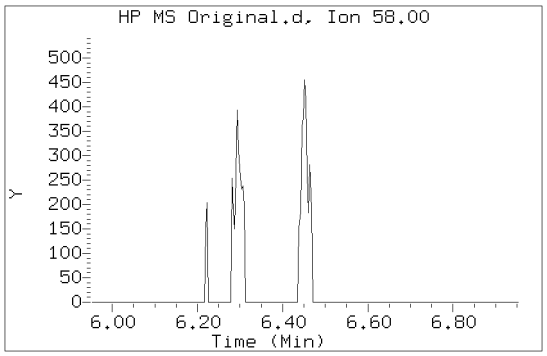
AFTER

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11:38
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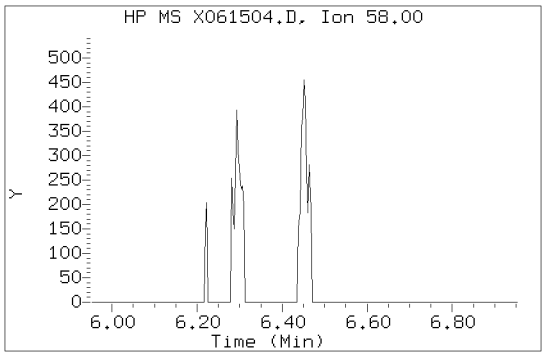
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HEIGHT
310
12-Jul-2024
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AFTER

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11:38
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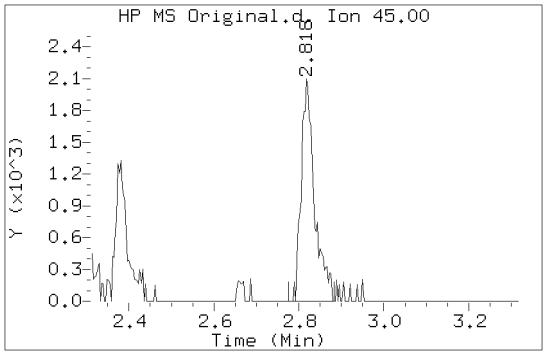


Isopropyl alcohol (67-63-0)

Reason Code:

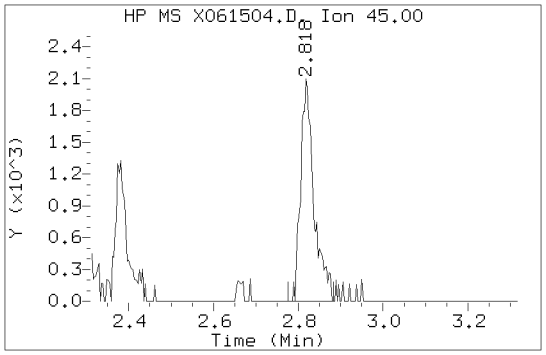
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11:38
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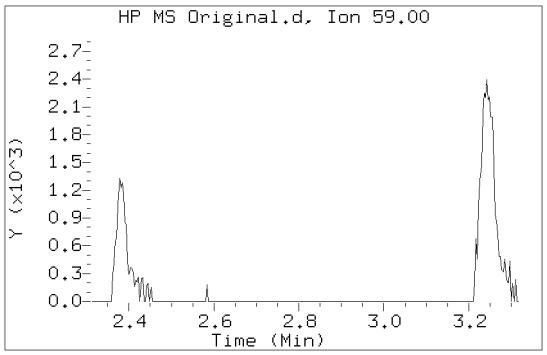
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11:38
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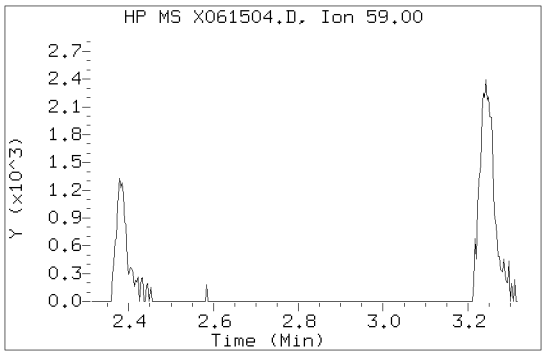
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AFTER

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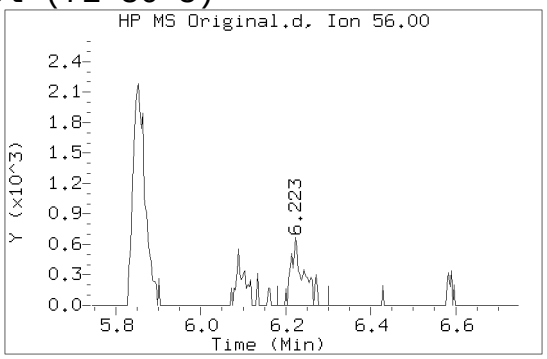


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Inj Date : 15-JUN-2024 14:46
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LabSampID : VSTD002

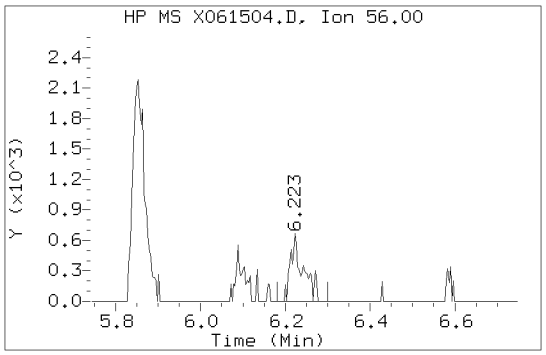
n-Butanol (71-36-3)

Reason Code:

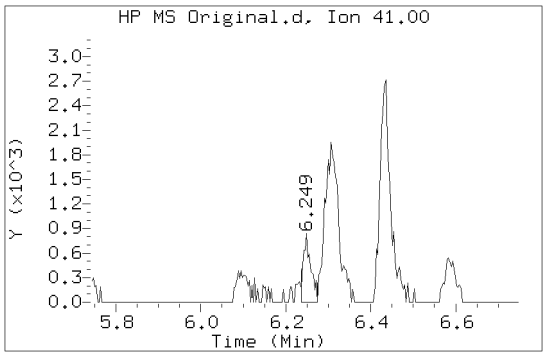
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672
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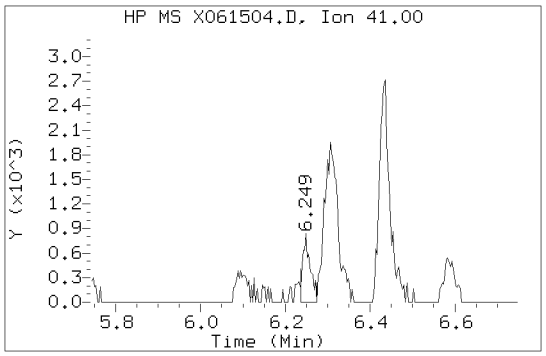
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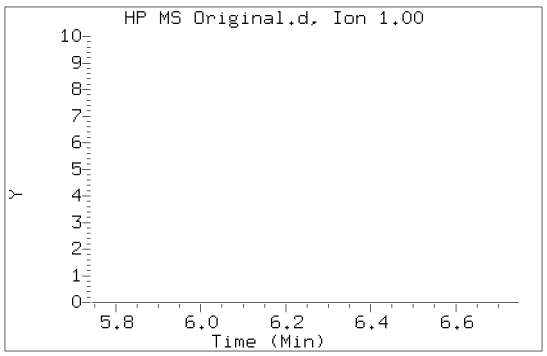
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HEIGHT
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12-Jul-2024
11:38
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zaid



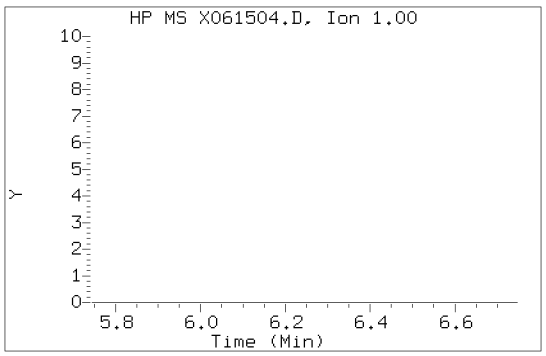
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HEIGHT
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12-Jul-2024
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BEFORE
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HEIGHT
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11:38
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zaid



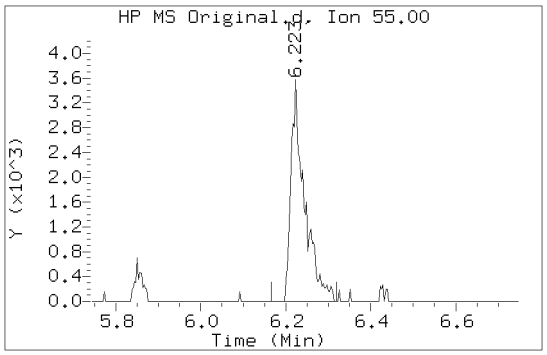
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HEIGHT
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12-Jul-2024
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zaid



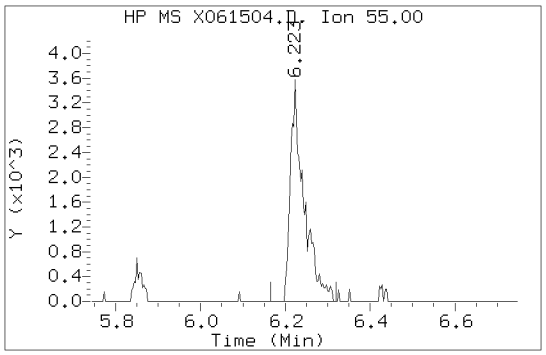
Ethyl Acrylate (140-88-5)

Reason Code:

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HEIGHT
3575
12-Jul-2024
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AFTER
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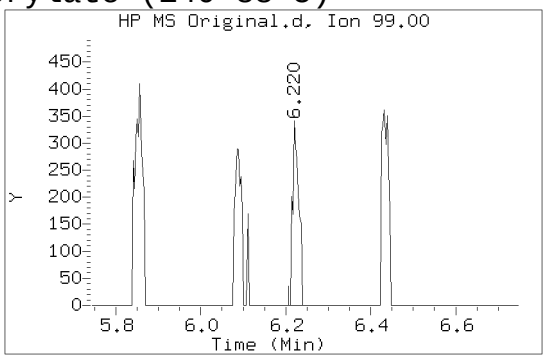
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061504.D
Inj Date : 15-JUN-2024 14:46
InstruID : voa7.i
LabSampID : VSTD002

Ethyl Acrylate (140-88-5)

Reason Code:

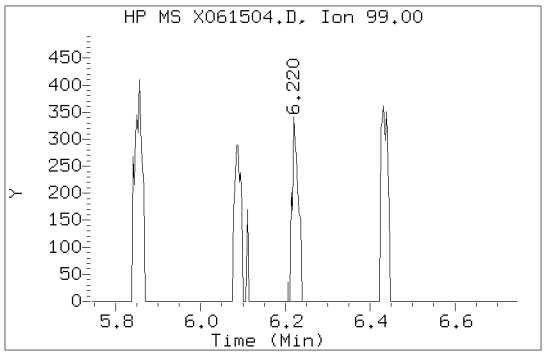
BEFORE

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AREA
347
HEIGHT
342
12-Jul-2024
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AFTER

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342
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11:38
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zaid

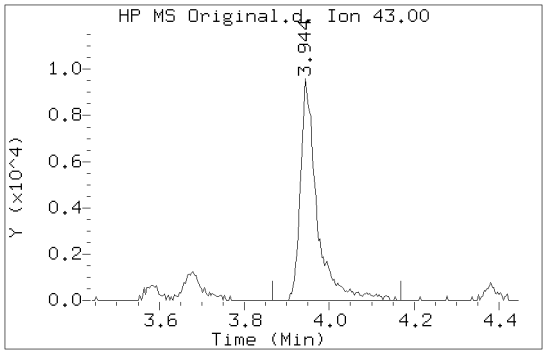


Ethyl Acetate (141-78-6)

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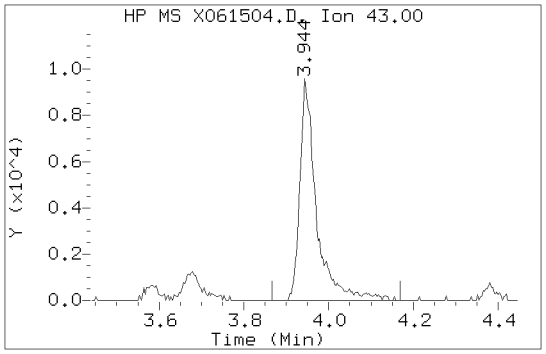
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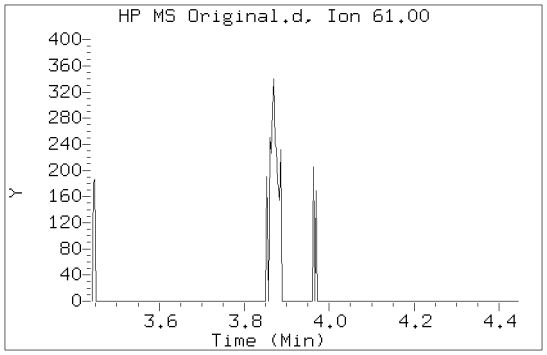
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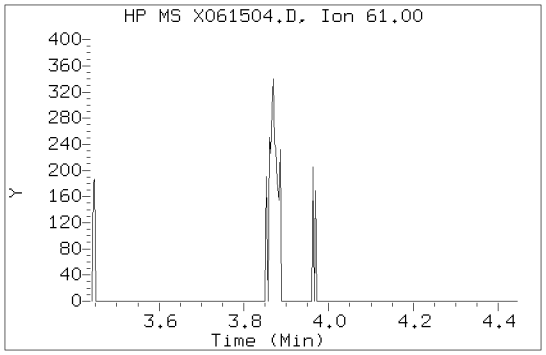
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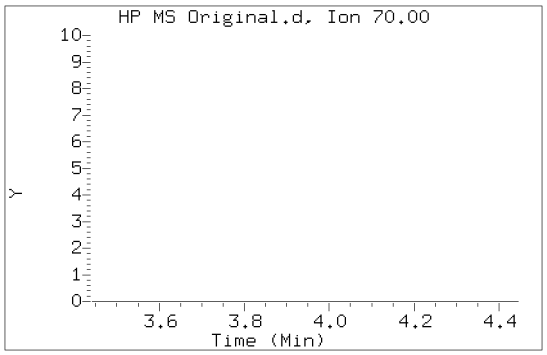
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HEIGHT
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zaid



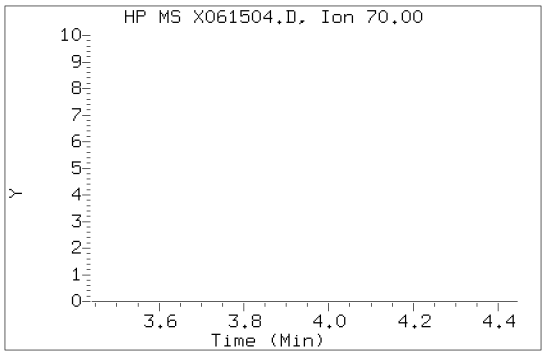
BEFORE

MASS
70
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HEIGHT
0
12-Jul-2024
11:38
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zaid



AFTER

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AREA
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HEIGHT
0
12-Jul-2024
11:38
s
zaid



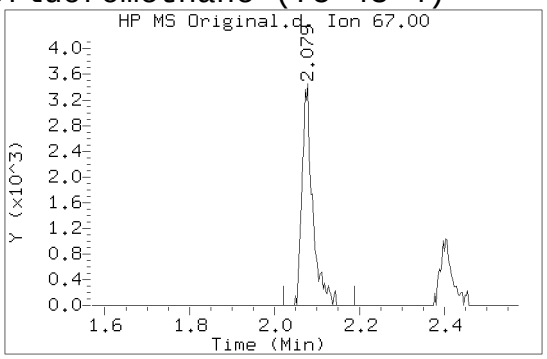
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Inj Date : 15-JUN-2024 14:46
InstruID : voa7.i
LabSampID : VSTD002

Dichlorofluoromethane (75-43-4)

Reason Code:

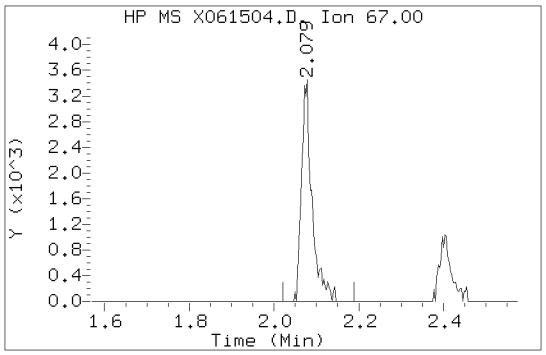
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67
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3453
12-Jul-2024
11:38
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zaid



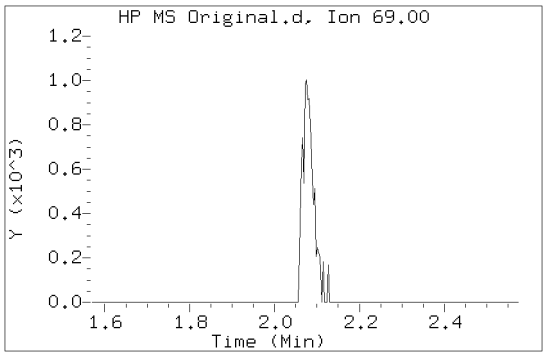
AFTER

MASS
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11:38
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zaid



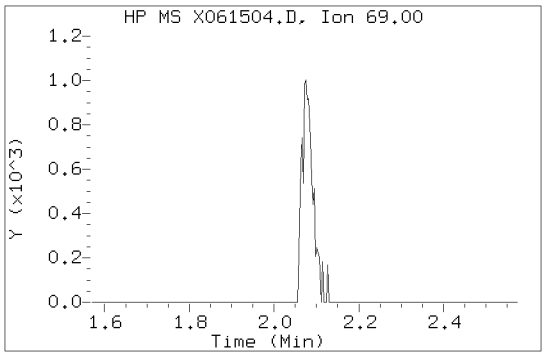
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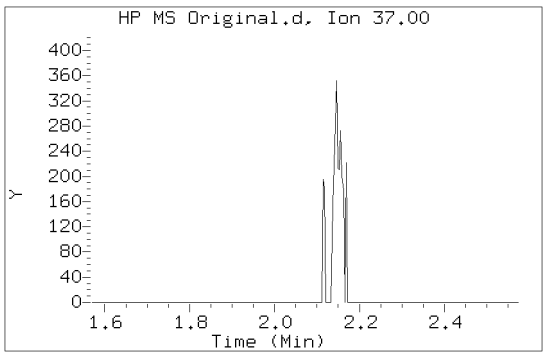
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11:38
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zaid



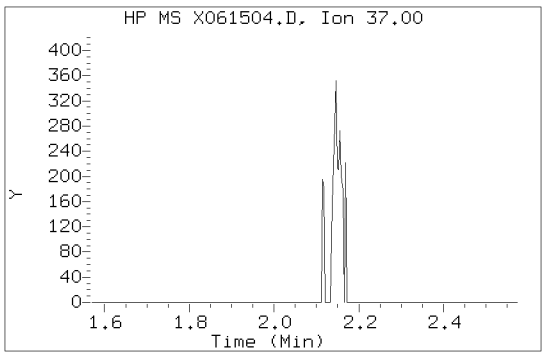
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12-Jul-2024
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AFTER

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11:38
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zaid

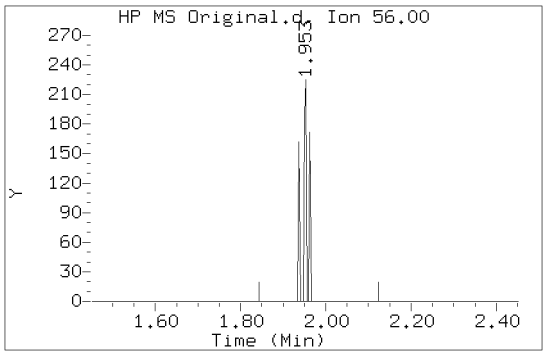


Isobutylene (115-11-7)

Reason Code:

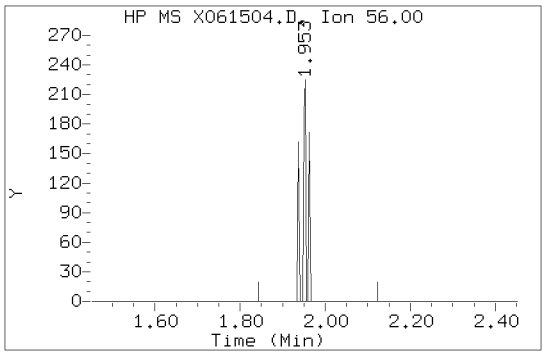
BEFORE

MASS
56
AREA
144
HEIGHT
225
12-Jul-2024
11:38
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zaid



AFTER

MASS
56
AREA
144
HEIGHT
225
12-Jul-2024
11:38
s
zaid

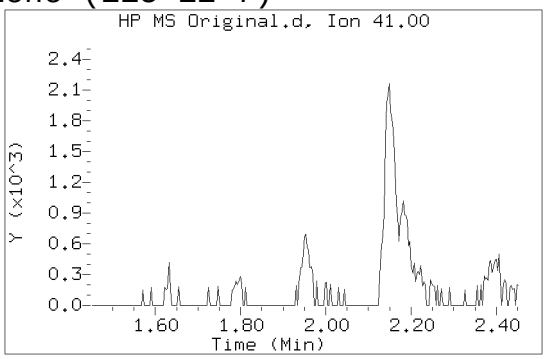


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Inj Date : 15-JUN-2024 14:46
InstruID : voa7.i
LabSampID : VSTD002

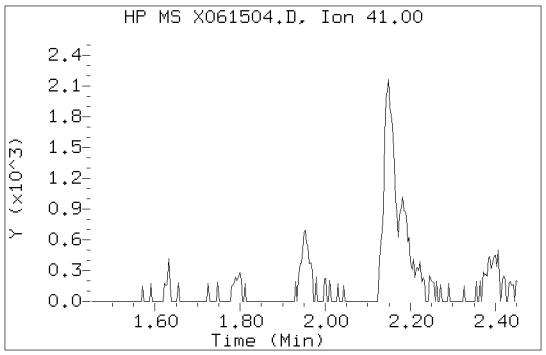
Isobutylene (115-11-7)

Reason Code:

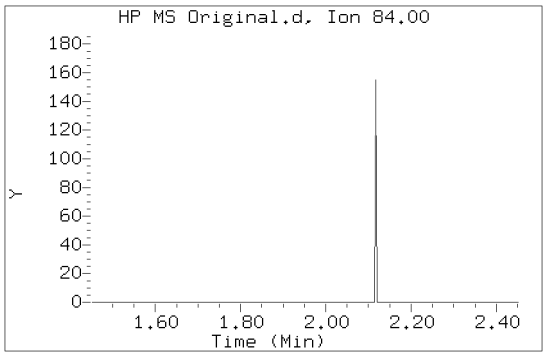
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HEIGHT
0
12-Jul-2024
11:38
s
zaid



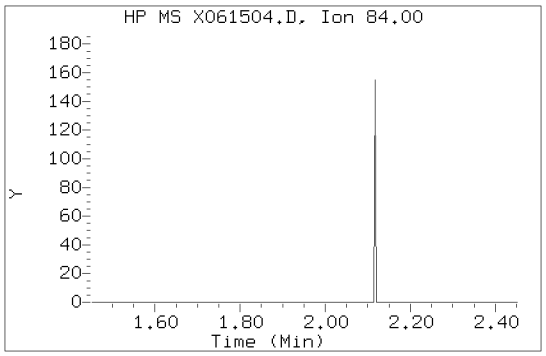
AFTER
MASS
41
AREA
0
HEIGHT
0
12-Jul-2024
11:38
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zaid



BEFORE
MASS
84
AREA
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HEIGHT
0
12-Jul-2024
11:38
s
zaid



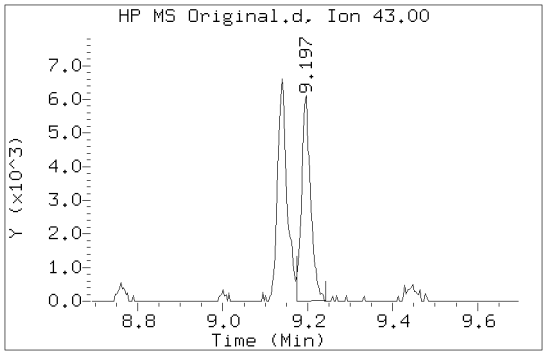
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HEIGHT
0
12-Jul-2024
11:38
s
zaid



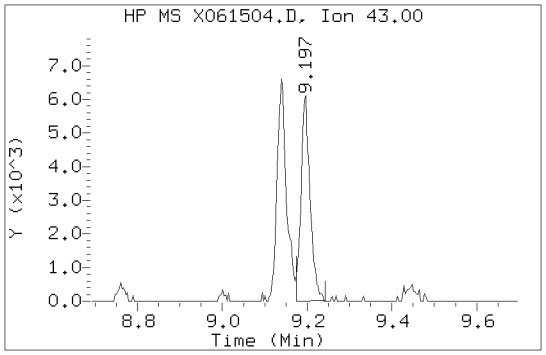
n-Amyl acetate (628-63-7)

Reason Code:

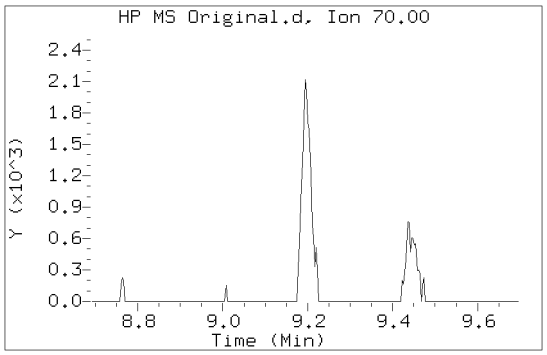
BEFORE
MASS
43
AREA
9084
HEIGHT
6100
12-Jul-2024
11:38
s
zaid



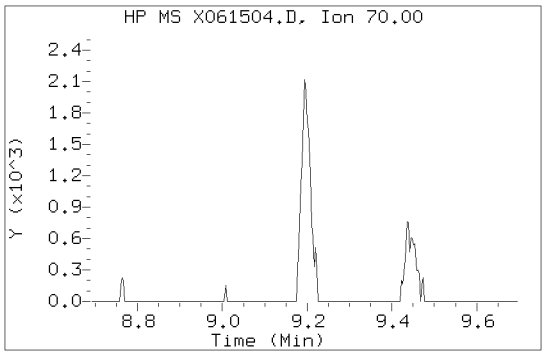
AFTER
MASS
43
AREA
9084
HEIGHT
6100
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
70
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER
MASS
70
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



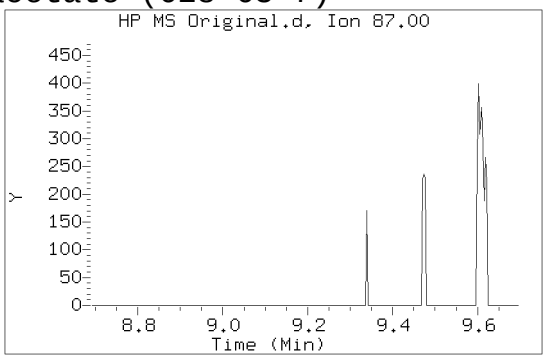
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Inj Date : 15-JUN-2024 14:46
InstruID : voa7.i
LabSampID : VSTD002

n-Amyl acetate (628-63-7)

Reason Code:

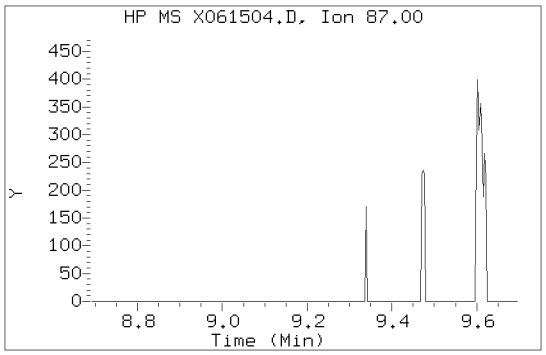
BEFORE

MASS
87
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
87
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

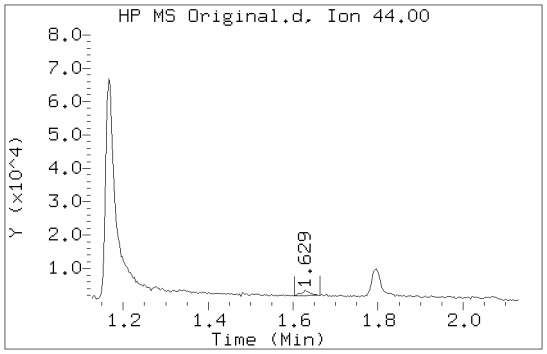


Acetaldehyde (75-07-0)

Reason Code:

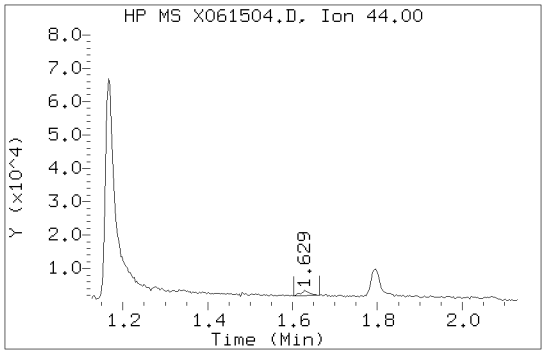
BEFORE

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1619
12-Jul-2024
11:38
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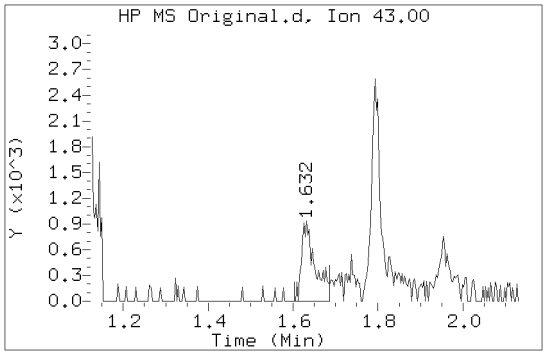
AFTER

MASS
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AREA
2195
HEIGHT
1619
12-Jul-2024
11:38
s
zaid



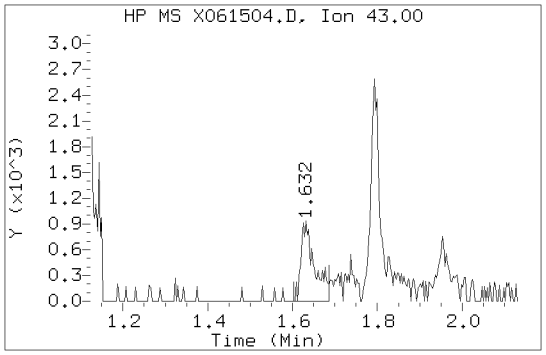
BEFORE

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934
12-Jul-2024
11:38
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zaid



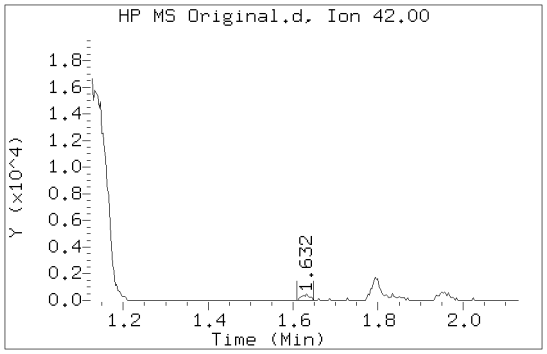
AFTER

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HEIGHT
934
12-Jul-2024
11:38
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zaid



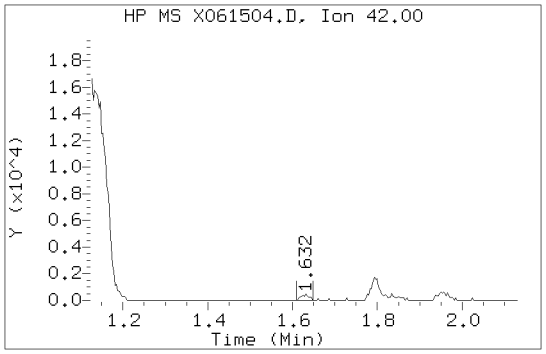
BEFORE

MASS
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HEIGHT
477
12-Jul-2024
11:38
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AFTER

MASS
42
AREA
566
HEIGHT
477
12-Jul-2024
11:38
s
zaid

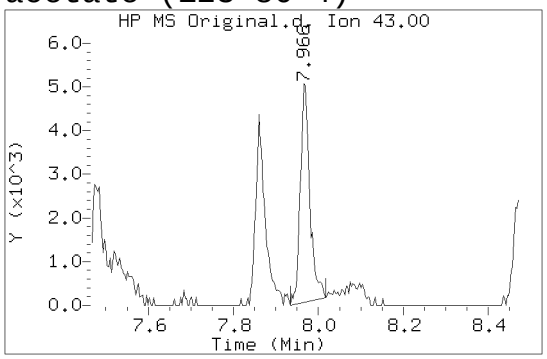


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Inj Date : 15-JUN-2024 14:46
InstruID : voa7.i
LabSampID : VSTD002

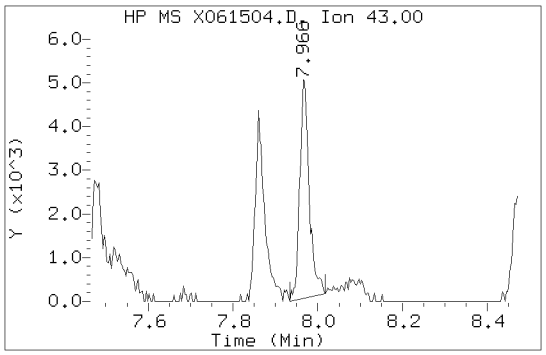
n-Butyl acetate (123-86-4)

Reason Code:

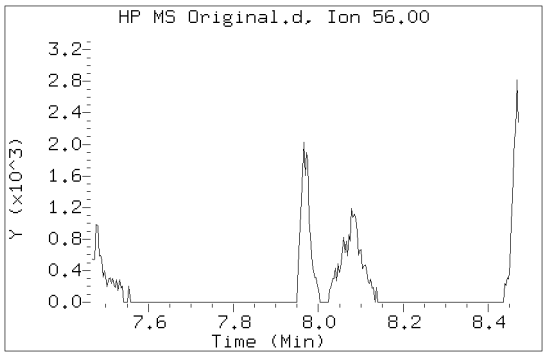
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12-Jul-2024
11:38
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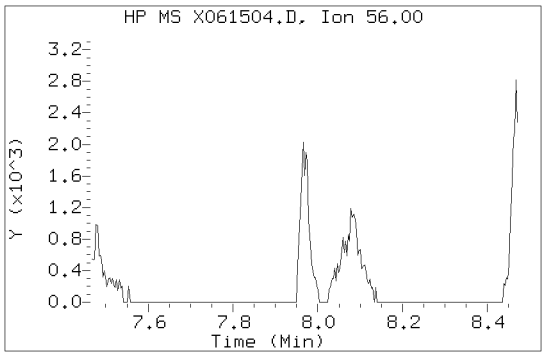
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AREA
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HEIGHT
5002
12-Jul-2024
11:38
s
zaid



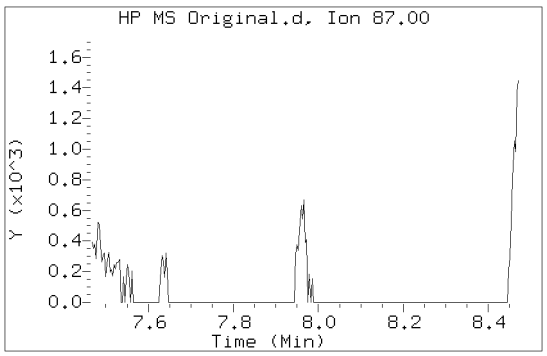
BEFORE
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12-Jul-2024
11:38
s
zaid



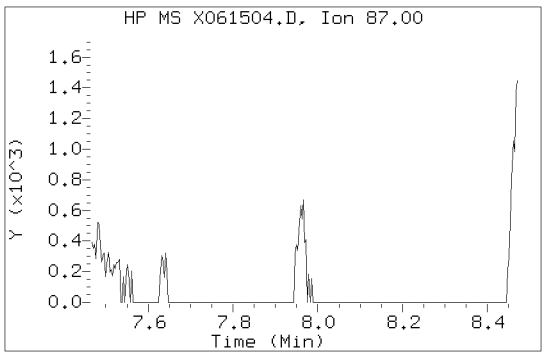
AFTER
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56
AREA
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HEIGHT
0
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
87
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



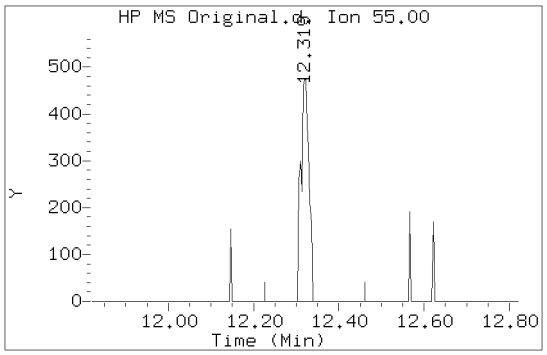
AFTER
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HEIGHT
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12-Jul-2024
11:38
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zaid



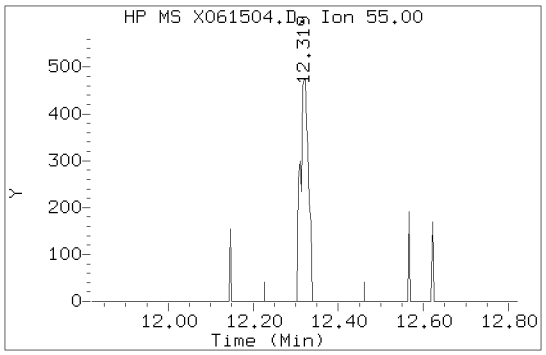
2-Etyhlhexyl Acrylate (103-11-7)

Reason Code:

BEFORE
MASS
55
AREA
633
HEIGHT
473
12-Jul-2024
11:38
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zaid



AFTER
MASS
55
AREA
633
HEIGHT
473
12-Jul-2024
11:38
s
zaid

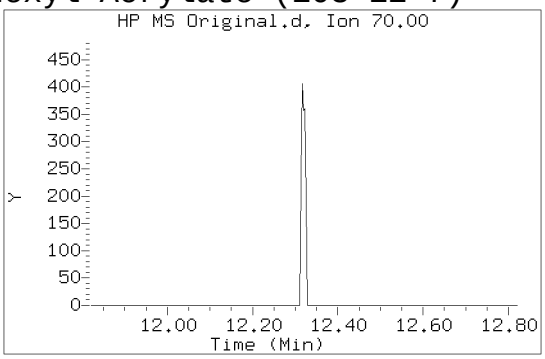


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Inj Date : 15-JUN-2024 14:46
InstruID : voa7.i
LabSampID : VSTD002

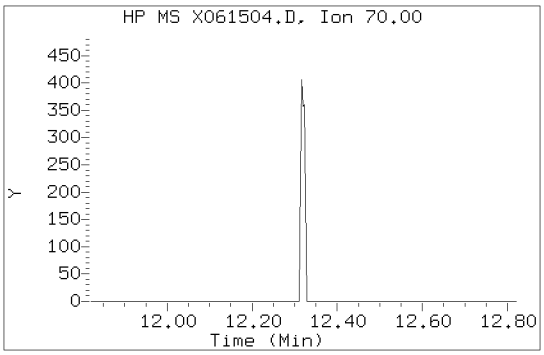
2-Etyhlhexyl Acrylate (103-11-7)

Reason Code:

BEFORE
MASS
70
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



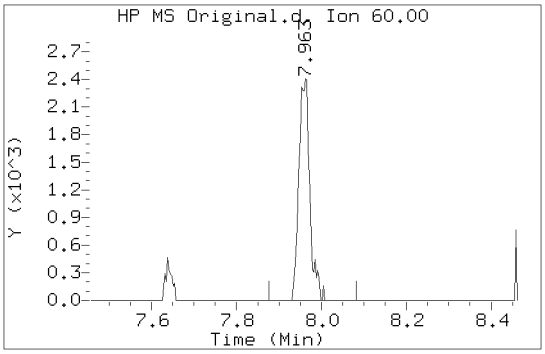
AFTER
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AREA
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HEIGHT
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12-Jul-2024
11:38
s
zaid



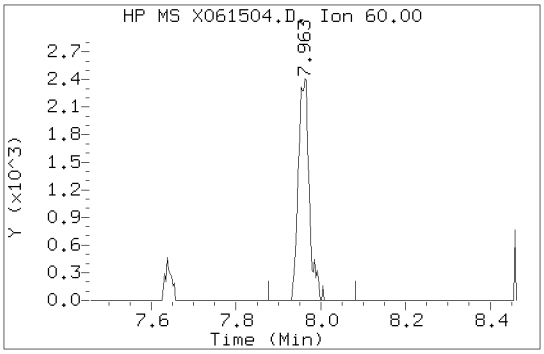
Tetrahydrothiophene (110-01-0)

Reason Code:

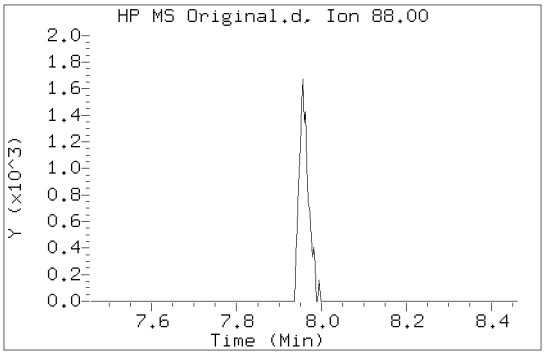
BEFORE
MASS
60
AREA
4279
HEIGHT
2408
12-Jul-2024
11:38
s
zaid



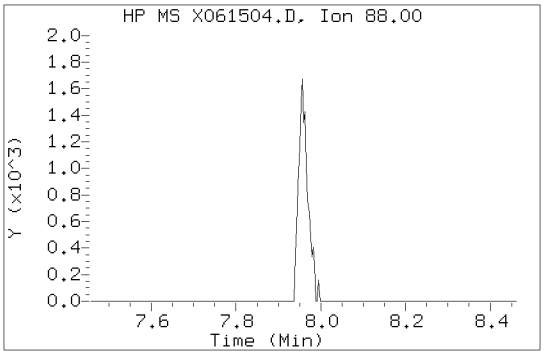
AFTER
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AREA
4279
HEIGHT
2408
12-Jul-2024
11:38
s
zaid



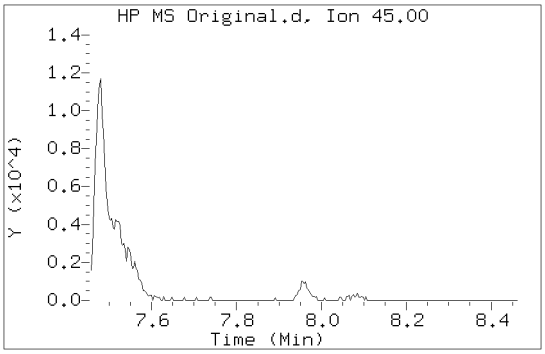
BEFORE
MASS
88
AREA
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HEIGHT
0
12-Jul-2024
11:38
s
zaid



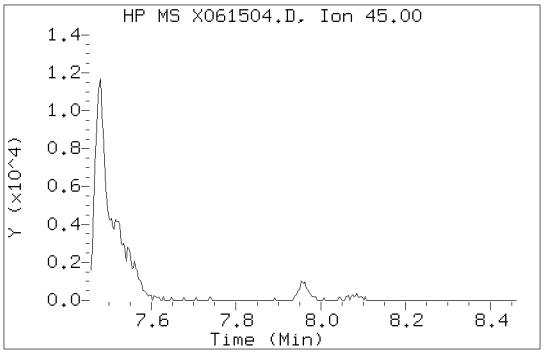
AFTER
MASS
88
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
45
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER
MASS
45
AREA
0
HEIGHT
0
12-Jul-2024
11:38
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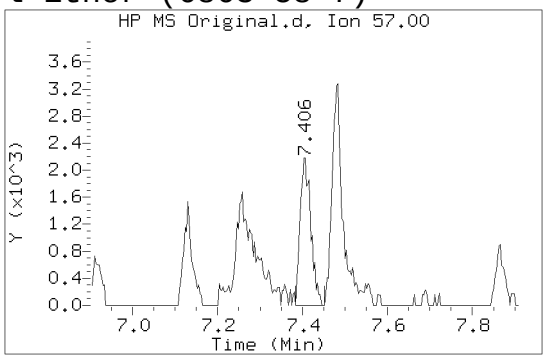


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Inj Date : 15-JUN-2024 14:46
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LabSampID : VSTD002

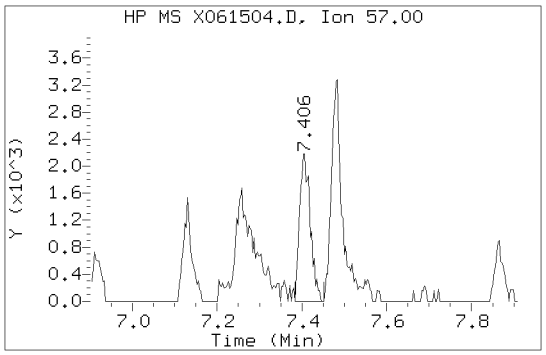
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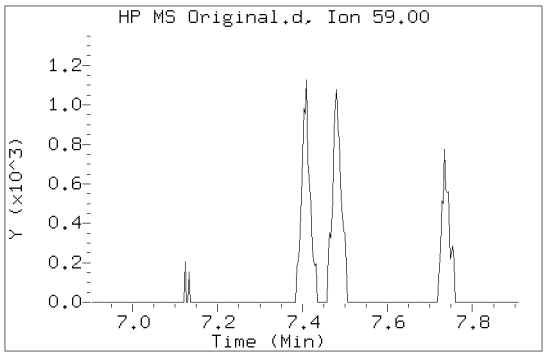
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12-Jul-2024
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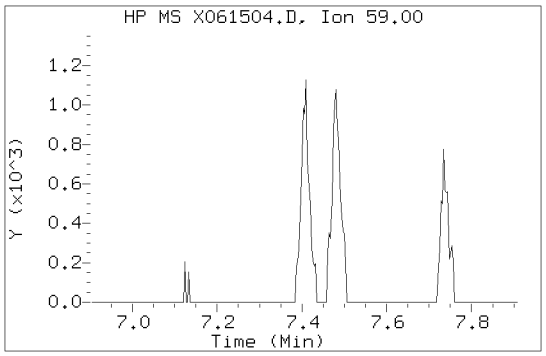
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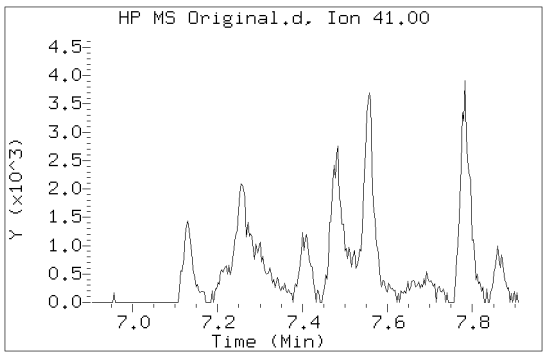
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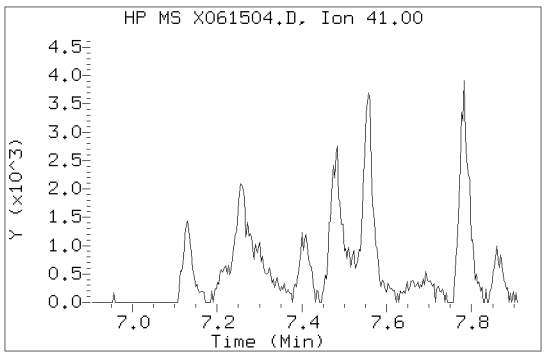
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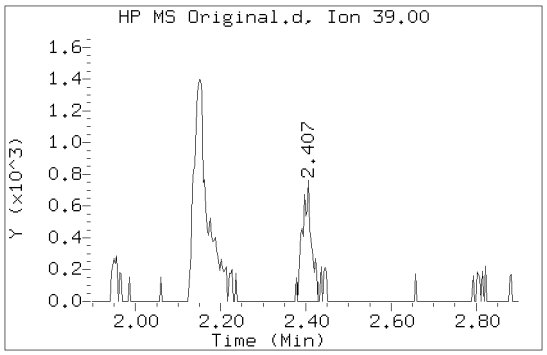
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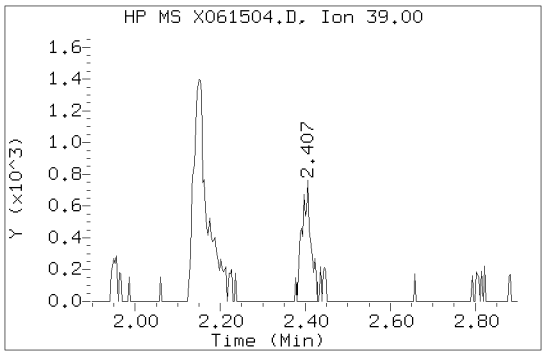
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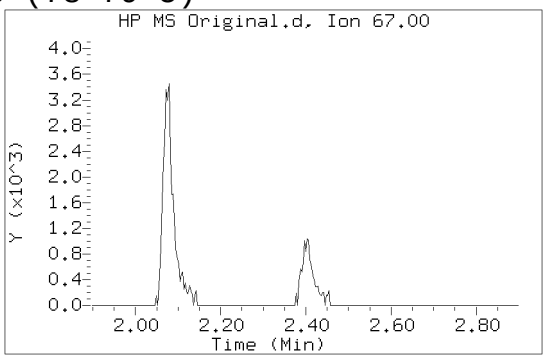
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LabSampID : VSTD002

Isoprene (78-79-5)

Reason Code:

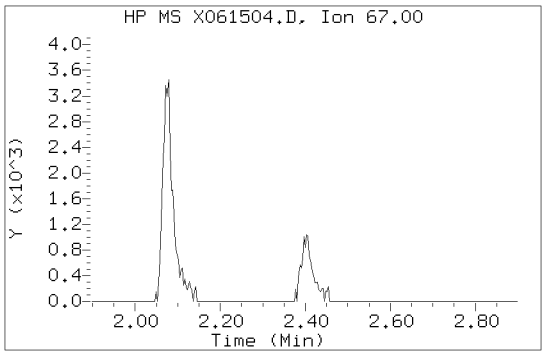
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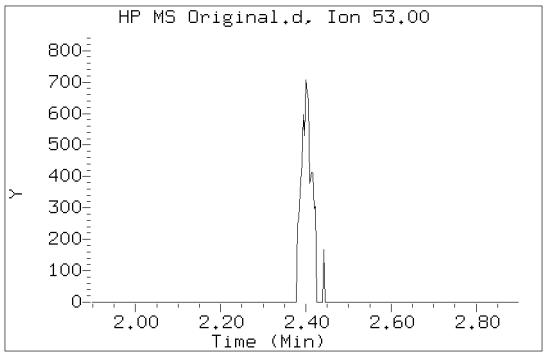
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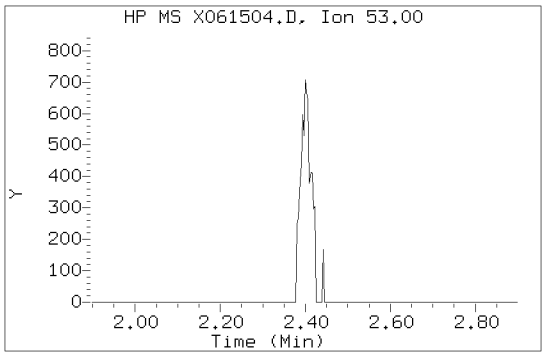
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AFTER

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HEIGHT
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12-Jul-2024
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Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061505.D Page 1
Report Date: 12-Jul-2024 11:38

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061505.D
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Inj Date : 15-JUN-2024 15:09
Operator : AP Inst ID: voa7.i
Smp Info : VSTD005;VSTD005;1;4
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240615.b\8260W.m
Meth Date : 12-Jul-2024 11:38 voa7.i Quant Type: ISTD
Cal Date : 15-JUN-2024 14:46 Cal File: X061504.D
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
* 1 Pentafluorobenzene	168	5.133	5.133	(1.000)	125535	50.0000	
2 Dichlorodifluoromethane	85	1.297	1.297	(0.253)	7225	5.00000	5.11
159 Dichlorofluoromethane	67	2.072	2.072	(0.404)	13800	5.00000	5.27
3 Chloromethane	50	1.448	1.448	(0.282)	11605	5.00000	5.13
4 Propionitrile	54	4.670	4.670	(0.910)	8704	50.0000	42.47
5 Vinyl Chloride	62	1.535	1.535	(0.299)	9844	5.00000	5.43
6 Bromomethane	94	1.808	1.808	(0.352)	5926	5.00000	4.98
7 Chloroethane	64	1.898	1.898	(0.370)	6277	5.00000	5.46
8 Trichlorofluoromethane	101	2.110	2.110	(0.411)	13237	5.00000	5.45
9 Acrolein	56	2.522	2.522	(0.491)	323	10.0000	9.13
10 Acetone	43	2.670	2.670	(0.520)	6604	10.0000	10.04
11 1,1-Dichloroethene	96	2.593	2.593	(0.505)	6851	5.00000	5.44
12 Isobutyl Alcohol	43	5.570	5.570	(1.085)	23318	100.000	95.18
13 Acetonitrile	39	2.966	2.966	(0.578)	10962	50.0000	50.76
14 Allyl Chloride	41	2.959	2.959	(0.577)	21819	5.00000	4.55
15 Iodomethane	142	2.744	2.744	(0.535)	13007	10.0000	11.46
16 Acrylonitrile	53	3.384	3.384	(0.659)	3482	10.0000	7.03
17 Methylene Chloride	84	3.091	3.091	(0.602)	9761	5.00000	5.00
18 Methyl tert-butyl ether	73	3.384	3.384	(0.659)	18018	5.00000	5.31
19 Carbon Disulfide	76	2.795	2.795	(0.545)	45001	10.0000	10.83

20 trans-1,2-Dichloroethene	96	3.377	3.377 (0.658)	7190	5.00000	5.11
21 Vinyl Acetate	43	4.660	4.660 (0.908)	9154	10.0000	9.96(M)

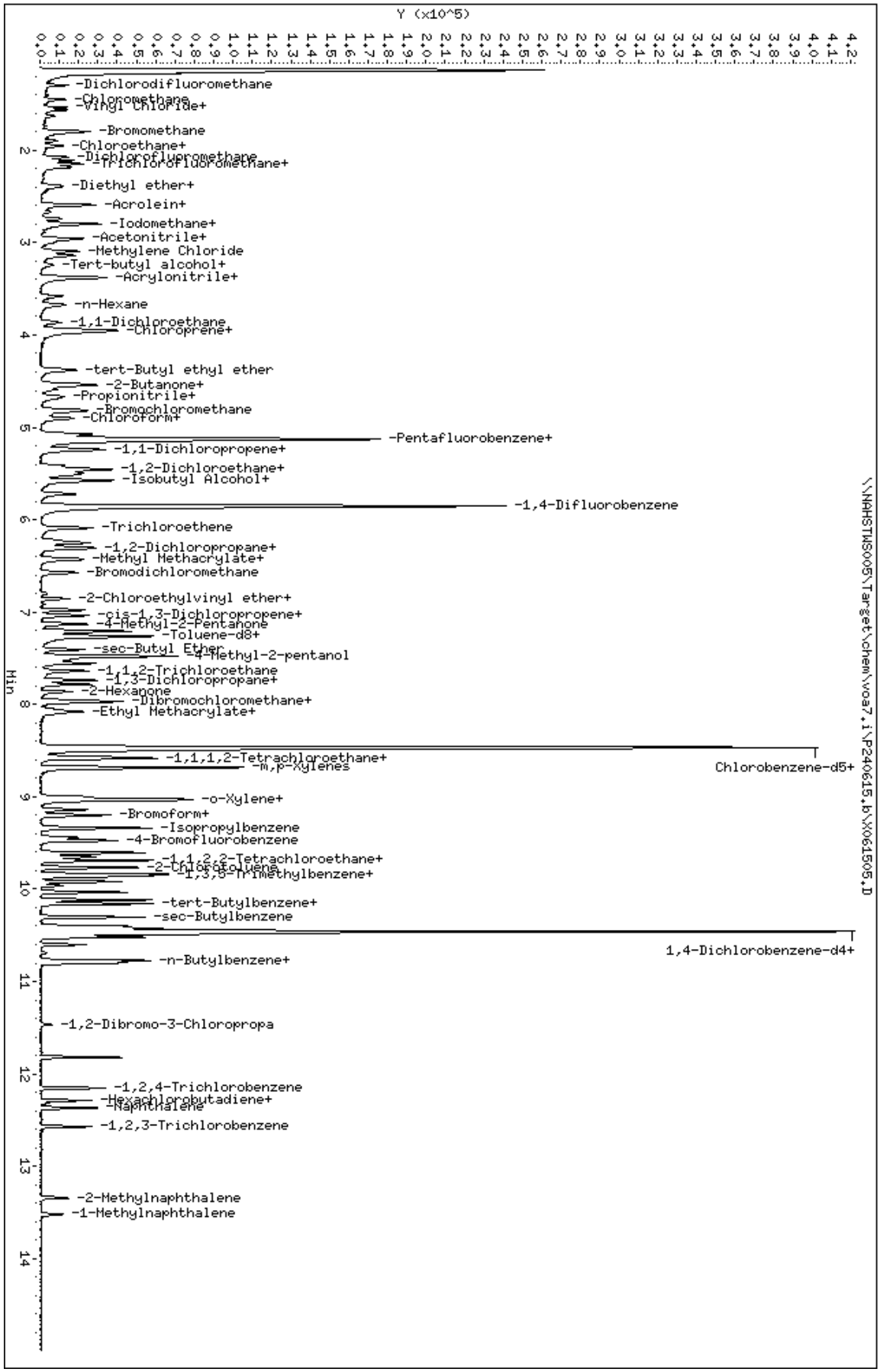
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
22	1,1-Dichloroethane	63	3.859	3.859	(0.752)	14844	5.00000	5.02
23	Chloroprene	53	3.969	3.969	(0.773)	12691	5.00000	5.38
24	2-Butanone	43	4.599	4.599	(0.896)	8477	10.0000	10.57
25	Methacrylonitrile	41	2.146	2.146	(0.418)	11271	5.00000	5.38
26	2,2-Dichloropropane	77	4.531	4.531	(0.883)	12743	5.00000	5.08
27	cis-1,2-Dichloroethene	96	4.544	4.544	(0.885)	8496	5.00000	5.19
28	Chloroform	83	4.904	4.904	(0.956)	14700	5.00000	4.78
29	Bromochloromethane	128	4.811	4.811	(0.937)	3897	5.00000	4.97
$ 30	Dibromofluoromethane	113	5.075	5.075	(0.989)	7541	5.00000	4.64
31	1,1,1-Trichloroethane	97	5.072	5.072	(0.988)	11751	5.00000	4.98
32	1,1-Dichloropropene	75	5.245	5.245	(0.896)	11612	5.00000	5.87
33	1,2-Dichloroethane	62	5.490	5.490	(0.938)	12357	5.00000	5.16
34	Carbon Tetrachloride	117	5.236	5.236	(0.895)	10309	5.00000	5.88
$ 35	1,2-Dichloroethane-d4	65	5.416	5.416	(1.055)	9398	5.00000	4.46
* 36	1,4-Difluorobenzene	114	5.853	5.853	(1.000)	205490	50.0000	
37	Benzene	78	5.458	5.458	(0.932)	31340	5.00000	5.29
38	Trichloroethene	130	6.088	6.088	(1.040)	8145	5.00000	5.62
39	Bromodichloromethane	83	6.570	6.570	(1.122)	11228	5.00000	4.90
40	Methyl Methacrylate	41	6.432	6.432	(1.253)	8143	5.00000	4.50
41	2-Chloroethylvinyl ether	63	6.859	6.859	(1.172)	5890	10.0000	9.59
42	1,2-Dichloropropane	63	6.310	6.310	(1.078)	8231	5.00000	4.83
43	2-Nitropropane	43	6.802	6.802	(1.325)	2378	5.00000	5.59
44	Dibromomethane	93	6.416	6.416	(1.096)	4876	5.00000	5.37
45	4-Methyl-2-Pentanone	43	7.129	7.129	(0.842)	18025	10.0000	10.51
46	cis-1,3-Dichloropropene	75	6.978	6.978	(1.192)	12123	5.00000	5.76
* 47	Chlorobenzene-d5	117	8.467	8.467	(1.000)	198496	50.0000	
$ 48	Toluene-d8	98	7.203	7.203	(0.851)	25974	5.00000	4.14
49	Ethyl Methacrylate	69	8.078	8.078	(1.380)	8382	5.00000	4.84
50	Toluene	91	7.265	7.265	(0.858)	32403	5.00000	4.97
51	trans-1,3-Dichloropropene	75	6.978	6.978	(1.192)	12123	5.00000	5.76
52	2-Hexanone	43	7.863	7.863	(0.929)	11468	10.0000	8.76
53	1,1,2-Trichloroethane	83	7.637	7.637	(0.902)	6253	5.00000	4.91
54	1,3-Dichloropropane	76	7.782	7.782	(0.919)	13167	5.00000	4.88
55	Dibromochloromethane	129	7.978	7.978	(0.942)	7802	5.00000	4.79
56	Tetrachloroethene	164	7.740	7.740	(0.914)	6024	5.00000	5.28
57	1,2-Dibromoethane	107	8.068	8.068	(0.953)	6959	5.00000	5.14
58	1-Chlorohexane	55	8.467	8.467	(1.447)	9909	5.00000	4.95
59	Chlorobenzene	112	8.493	8.493	(1.003)	22124	5.00000	5.17
60	1,1,1,2-Tetrachloroethane	131	8.563	8.563	(1.011)	7002	5.00000	5.50
61	Ethylbenzene	106	8.586	8.586	(1.014)	11221	5.00000	5.18
62	m,p-Xylenes	106	8.682	8.682	(1.025)	27245	10.0000	9.99
63	o-Xylene	106	9.023	9.023	(1.066)	13725	5.00000	5.06
64	Styrene	104	9.039	9.039	(1.068)	23337	5.00000	4.96
66	Bromoform	173	9.207	9.207	(1.087)	4925	5.00000	4.80
67	Isopropylbenzene	105	9.338	9.338	(1.103)	33644	5.00000	5.12
68	1,1,2,2-Tetrachloroethane	83	9.608	9.608	(0.919)	9701	5.00000	5.26
$ 69	4-Bromofluorobenzene	95	9.473	9.473	(1.119)	12049	5.00000	4.54
* 70	1,4-Dichlorobenzene-d4	152	10.457	10.457	(1.000)	97733	50.0000	
71	1,2,3-Trichloropropane	75	9.647	9.647	(0.923)	11078	5.00000	5.44
72	trans-1,4-Dichloro-2-butene	53	9.653	9.653	(1.140)	2178	5.00000	5.19
73	n-Propylbenzene	91	9.689	9.689	(0.927)	40578	5.00000	5.57
74	Bromobenzene	156	9.602	9.602	(0.918)	8991	5.00000	5.48

75	1,3,5-Trimethylbenzene	105	9.837	9.837 (0.941)	29207	5.00000	5.75
76	2-Chlorotoluene	91	9.766	9.766 (0.934)	25653	5.00000	5.37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
77	4-Chlorotoluene	91	9.859	9.859	(0.943)	30030	5.00000	5.49
78	tert-Butylbenzene	119	10.116	10.116	(0.967)	24227	5.00000	5.41
79	1,2,4-Trimethylbenzene	105	10.155	10.155	(0.971)	28869	5.00000	5.44
81	sec-Butylbenzene	105	10.303	10.303	(0.985)	32307	5.00000	5.59
82	p-Isopropyltoluene	119	10.425	10.425	(0.997)	28883	5.00000	5.54
83	1,3-Dichlorobenzene	146	10.403	10.403	(0.995)	16526	5.00000	5.53
84	1,4-Dichlorobenzene	146	10.477	10.477	(1.002)	17198	5.00000	5.37
87	n-Butylbenzene	91	10.772	10.772	(1.030)	26108	5.00000	5.17
88	1,2-Dichlorobenzene	146	10.798	10.798	(1.033)	14740	5.00000	5.06
89	1,2-Dibromo-3-Chloropropane	75	11.460	11.460	(1.096)	1305	5.00000	4.51
90	1,2,4-Trichlorobenzene	180	12.155	12.155	(1.162)	9039	5.00000	5.61
91	Hexachlorobutadiene	225	12.290	12.290	(1.175)	4213	5.00000	5.40
92	Naphthalene	128	12.367	12.367	(1.183)	19723	5.00000	4.70
93	1,2,3-Trichlorobenzene	182	12.573	12.573	(1.202)	7315	5.00000	4.79
135	1,4-Dioxane	88	6.451	6.451	(1.257)	1050	100.000	90.21(M)
146	Methyl acetate	43	2.998	2.998	(0.584)	5521	5.00000	4.61(a)
138	Freon TF	101	2.593	2.593	(0.505)	6709	5.00000	5.51
139	Diethyl ether	59	2.377	2.377	(0.463)	4126	5.00000	4.50
140	1,3-Butadiene	54	1.564	1.564	(0.305)	3822	5.00000	5.37
141	Cyclohexane	56	5.113	5.113	(0.996)	14123	5.00000	5.75
147	Methylcyclohexane	83	6.245	6.245	(1.067)	9878	5.00000	6.65
132	n-Butanol	56	6.255	6.255	(1.219)	4028	100.000	100.76(T)
131	Methyl Acrylate	55	4.692	4.692	(0.914)	7951	5.00000	4.63
133	Ethyl Acrylate	55	6.245	6.245	(1.217)	18272	5.00000	5.17
136	n-Hexane	57	3.676	3.676	(0.716)	7851	5.00000	5.55
142	Tetrahydrofuran	42	4.866	4.866	(0.948)	2220	10.0000	10.80
148	Tert-butyl alcohol	59	3.242	3.242	(0.632)	9103	100.000	98.25
149	Isopropyl alcohol	45	2.818	2.818	(0.549)	7128	100.000	85.32(M)
151	4-Methyl-2-pentanol	45	7.477	7.477	(0.883)	52716	100.000	95.57
166	1,2,3-Trimethylbenzene	105	10.518	10.518	(1.006)	25001	5.00000	4.96
167	Ethanol	45	2.300	2.300	(0.448)	1493	100.000	113.43
172	tert-Butyl formate	59	3.242	3.242	(0.632)	9103	10.0000	9.52
173	3,3-Dimethyl-1-butanol	57	8.088	8.088	(0.955)	9707	100.000	80.94
174	tert-Amyl methyl ether	73	5.573	5.573	(1.086)	20716	5.00000	5.24
175	tert-Butyl ethyl ether	59	4.384	4.384	(0.854)	20056	5.00000	4.68
157	2-Methylnaphthalene	142	13.345	13.345	(1.276)	7014	5.00000	4.59
156	Diisopropyl ether	45	3.950	3.950	(0.769)	24035	5.00000	4.82(T)
171	1-Methylnaphthalene	142	13.525	13.525	(1.293)	5970	5.00000	4.42
130	Ethyl Acetate	43	3.943	3.943	(0.768)	44597	5.00000	5.22(T)
176	tert-Amyl alcohol	59	5.512	5.512	(1.074)	7972	100.000	85.26
160	Epichlorohydrin	57	6.917	6.917	(1.182)	1794	20.0000	21.33
161	Butyl acrylate	55	8.998	8.998	(1.063)	16083	5.00000	4.99(a)
182	Isobutylene	56	1.950	1.950	(0.380)	901	5.00000	5.37(AM)
183	Isopropyl Acetate	43	5.570	5.570	(0.952)	23318	5.00000	5.11(A)
184	n-Amyl acetate	43	9.194	9.194	(1.086)	16091	5.00000	5.43(AM)
185	Acetaldehyde	44	1.625	1.625	(0.317)	4414	20.0000	17.97(AM)
186	n-Butyl acetate	43	7.969	7.969	(0.941)	12732	5.00000	4.63(aAM)
187	2-Etyhlhexyl Acrylate	55	12.319	12.319	(1.178)	1446	5.00000	4.61(aAM)
188	Tetrahydrothiophene	60	7.959	7.959	(0.940)	7400	5.00000	4.56(aAM)
189	sec-Butyl Ether	57	7.406	7.406	(0.875)	8224	5.00000	4.03(aAM)
190	Isoprene	39	2.403	2.403	(0.468)	2371	5.00000	6.46(AM)
191	2-Chloropropene	41	2.146	2.146	(0.418)	11271	5.00000	5.21(A)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061505.D
Date : 15-JUN-2024 15:09
Client ID: VSTD005
Sample Info: VSTD005;VSTD005;1;4
Purge Volume: 5.0
Column phase: DB624

Instrument: voa7.i
Operator: AP
Column diameter: 0.18

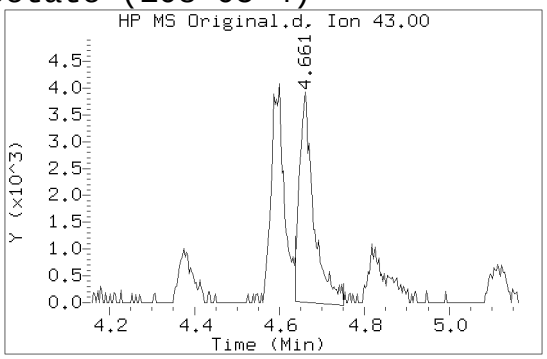
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Inj Date : 15-JUN-2024 15:09
InstruID : voa7.i
LabSampID : VSTD005

Vinyl Acetate (108-05-4)

Reason Code:

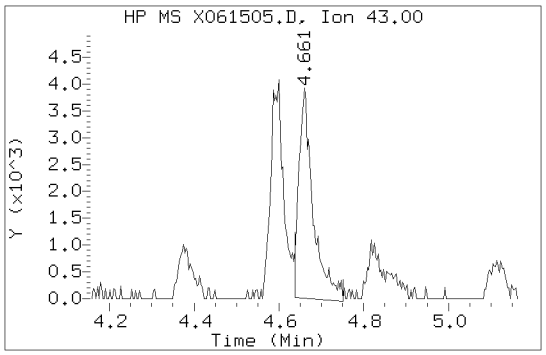
BEFORE

MASS
43
AREA
9154
HEIGHT
3923
12-Jul-2024
11:38
s
zaid



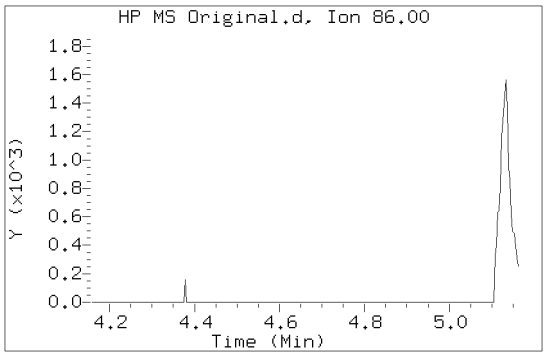
AFTER

MASS
43
AREA
9154
HEIGHT
3923
12-Jul-2024
11:38
s
zaid



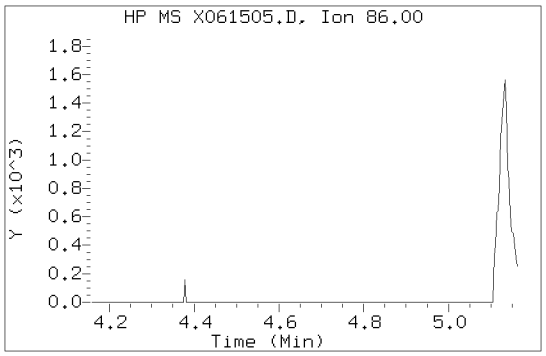
BEFORE

MASS
86
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
86
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

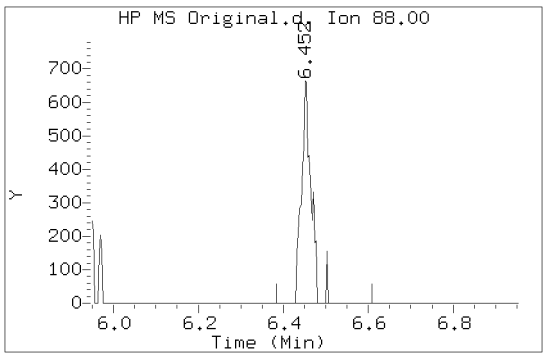


1,4-Dioxane ()

Reason Code:

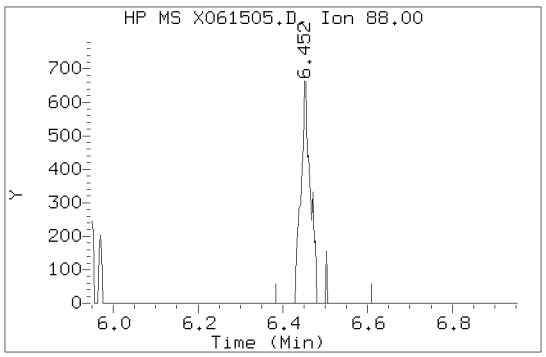
BEFORE

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1050
HEIGHT
664
12-Jul-2024
11:38
s
zaid



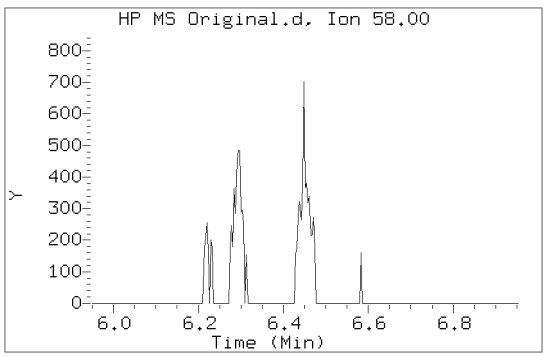
AFTER

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11:38
s
zaid



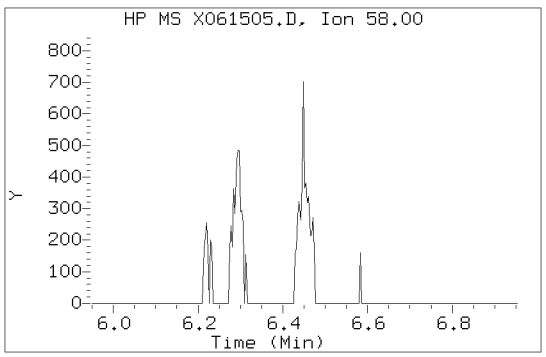
BEFORE

MASS
58
AREA
286
HEIGHT
387
12-Jul-2024
11:38
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zaid



AFTER

MASS
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AREA
286
HEIGHT
387
12-Jul-2024
11:38
s
zaid

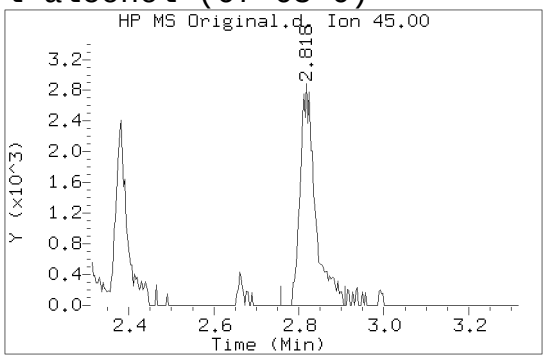


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InstruID : voa7.i
LabSampID : VSTD005

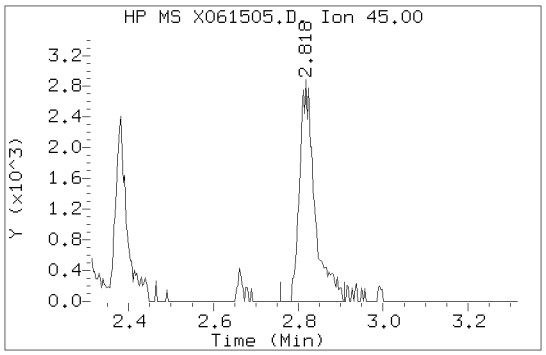
Isopropyl alcohol (67-63-0)

Reason Code:

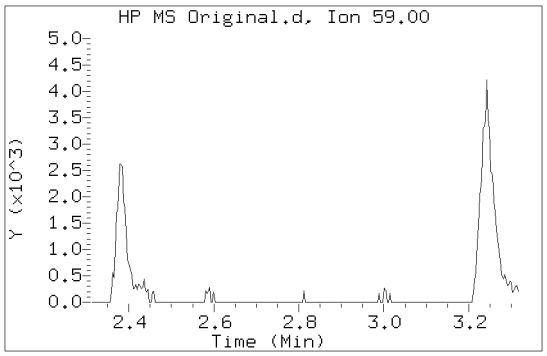
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45
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7128
HEIGHT
2886
12-Jul-2024
11:38
s
zaid



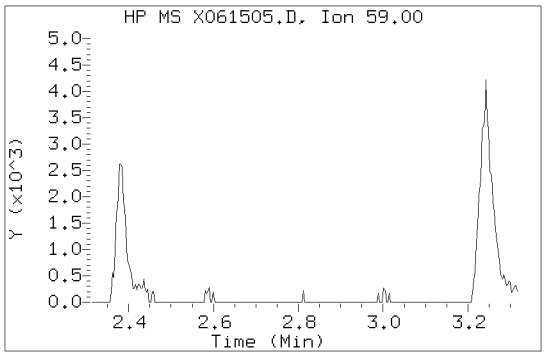
AFTER
MASS
45
AREA
7128
HEIGHT
2886
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
59
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



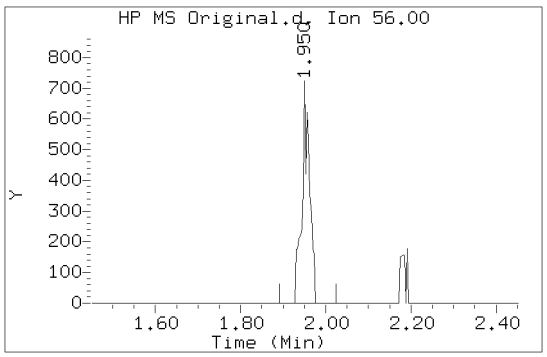
AFTER
MASS
59
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



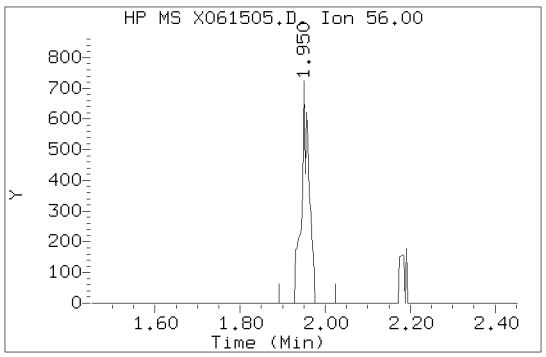
Isobutylene (115-11-7)

Reason Code:

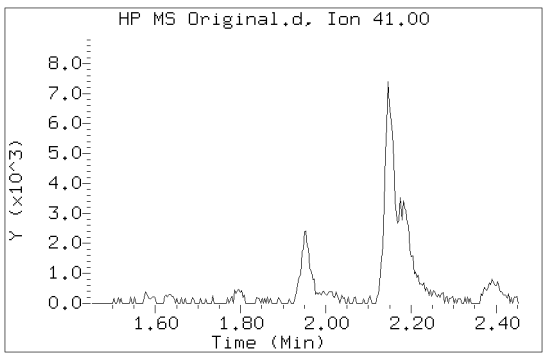
BEFORE
MASS
56
AREA
901
HEIGHT
724
12-Jul-2024
11:38
s
zaid



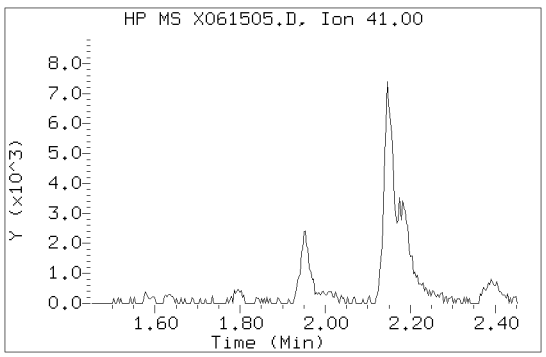
AFTER
MASS
56
AREA
901
HEIGHT
724
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
41
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER
MASS
41
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



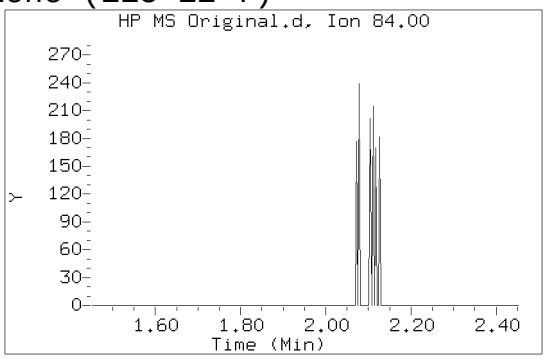
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Inj Date : 15-JUN-2024 15:09
InstruID : voa7.i
LabSampID : VSTD005

Isobutylene (115-11-7)

Reason Code:

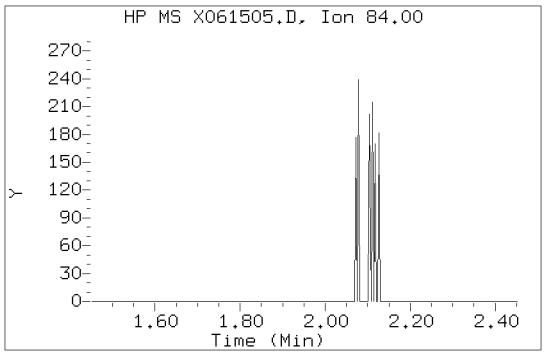
BEFORE

MASS
84
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
84
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

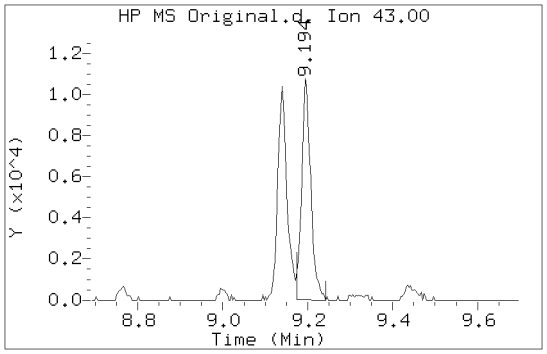


n-Amyl acetate (628-63-7)

Reason Code:

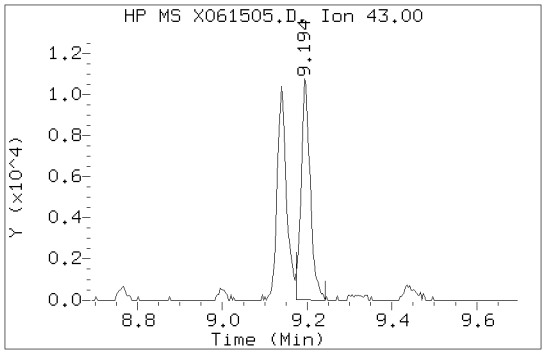
BEFORE

MASS
43
AREA
16091
HEIGHT
10789
12-Jul-2024
11:38
s
zaid



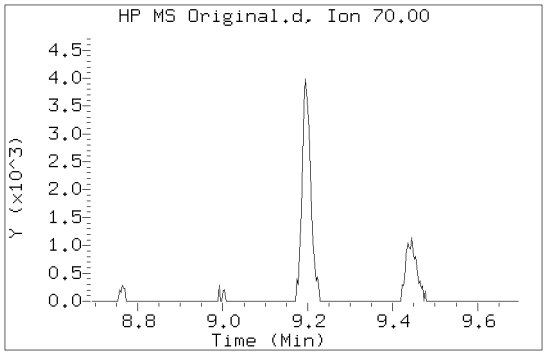
AFTER

MASS
43
AREA
16091
HEIGHT
10789
12-Jul-2024
11:38
s
zaid



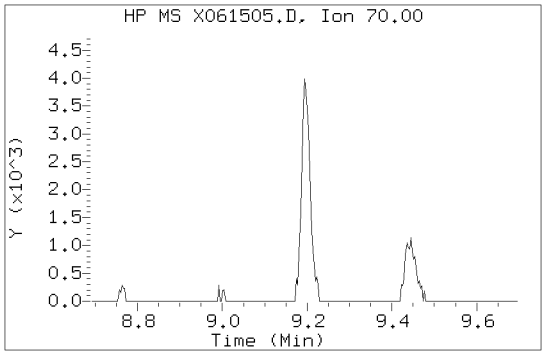
BEFORE

MASS
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AREA
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HEIGHT
0
12-Jul-2024
11:38
s
zaid



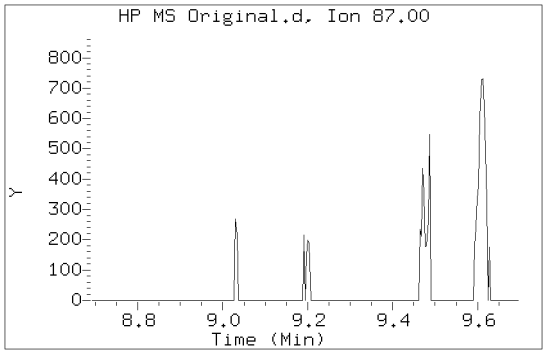
AFTER

MASS
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AREA
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HEIGHT
0
12-Jul-2024
11:38
s
zaid



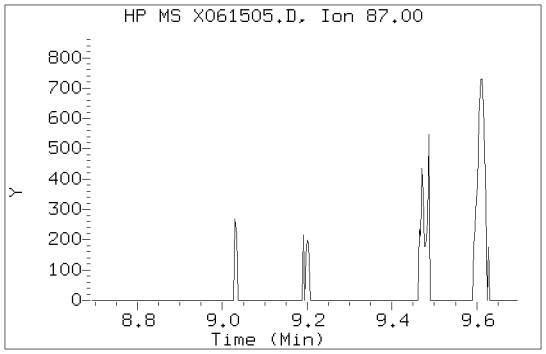
BEFORE

MASS
87
AREA
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HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
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AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



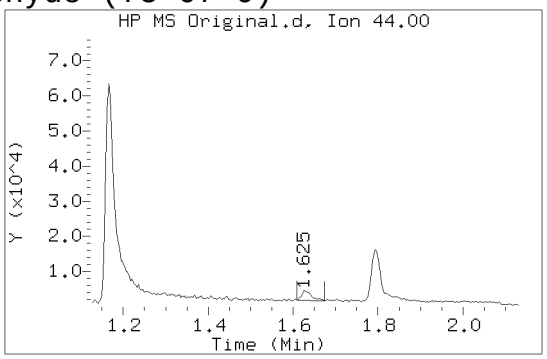
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Inj Date : 15-JUN-2024 15:09
InstruID : voa7.i
LabSampID : VSTD005

Acetaldehyde (75-07-0)

Reason Code:

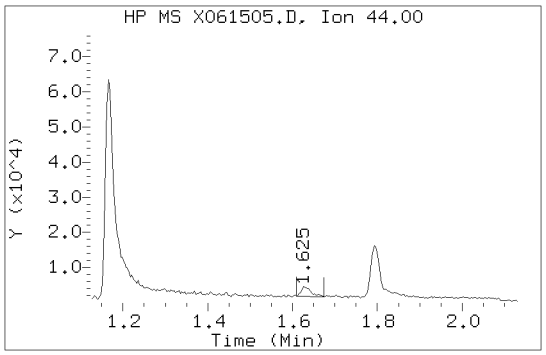
BEFORE

MASS
44
AREA
4414
HEIGHT
2737
12-Jul-2024
11:38
s
zaid



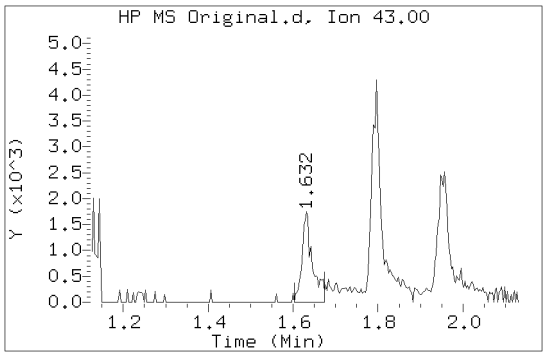
AFTER

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HEIGHT
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12-Jul-2024
11:38
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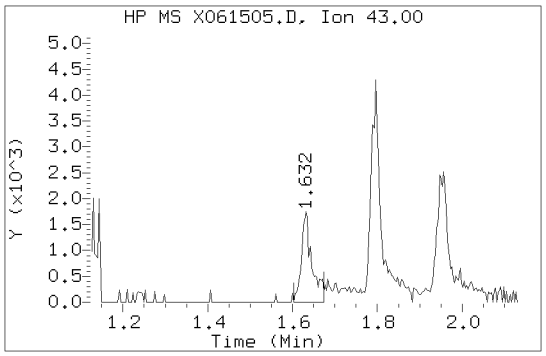
BEFORE

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zaid



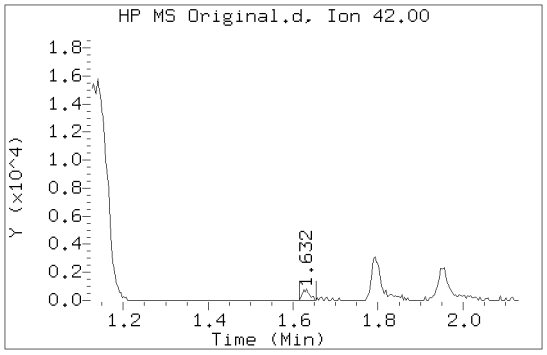
AFTER

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3011
HEIGHT
1750
12-Jul-2024
11:38
s
zaid



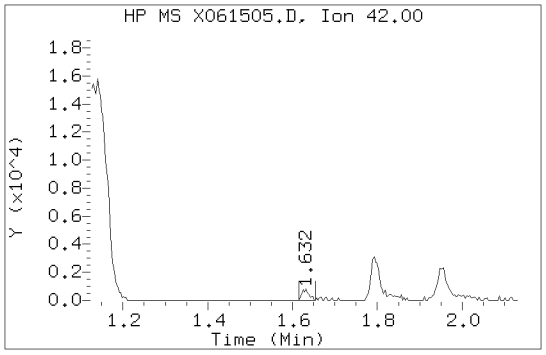
BEFORE

MASS
42
AREA
919
HEIGHT
809
12-Jul-2024
11:38
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zaid



AFTER

MASS
42
AREA
919
HEIGHT
809
12-Jul-2024
11:38
s
zaid

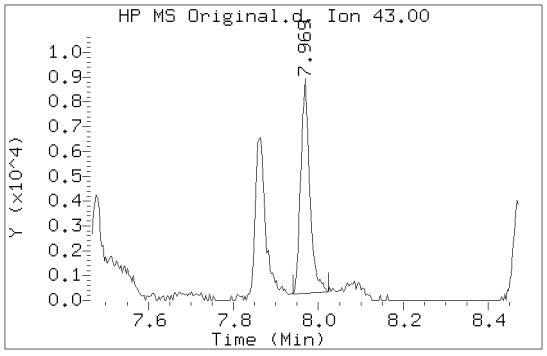


n-Butyl acetate (123-86-4)

Reason Code:

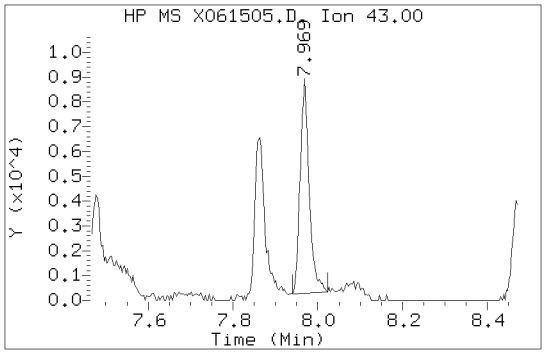
BEFORE

MASS
43
AREA
12732
HEIGHT
8653
12-Jul-2024
11:38
s
zaid



AFTER

MASS
43
AREA
12732
HEIGHT
8653
12-Jul-2024
11:38
s
zaid



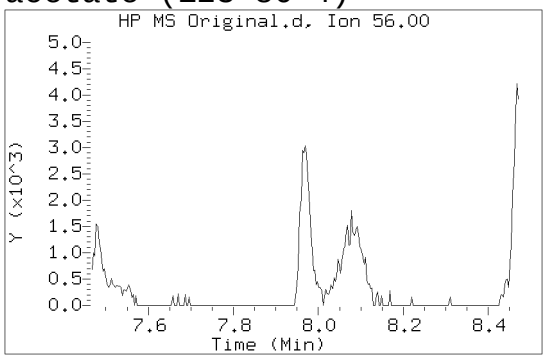
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Inj Date : 15-JUN-2024 15:09
InstruID : voa7.i
LabSampID : VSTD005

n-Butyl acetate (123-86-4)

Reason Code:

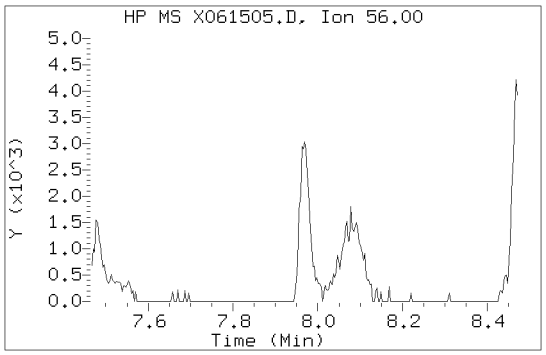
BEFORE

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AREA
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HEIGHT
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12-Jul-2024
11:38
s
zaid



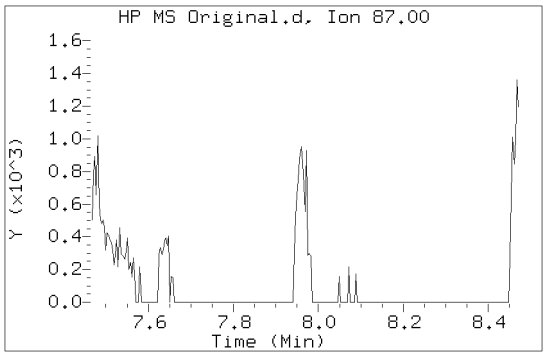
AFTER

MASS
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AREA
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HEIGHT
0
12-Jul-2024
11:38
s
zaid



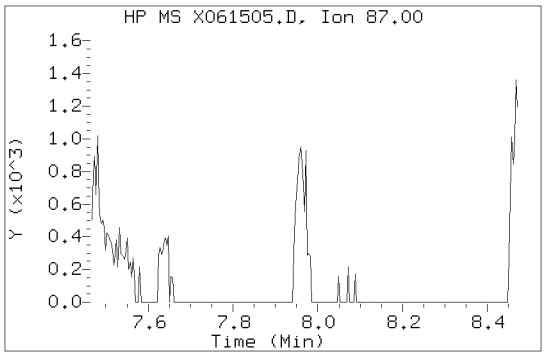
BEFORE

MASS
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HEIGHT
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12-Jul-2024
11:38
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zaid



AFTER

MASS
87
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

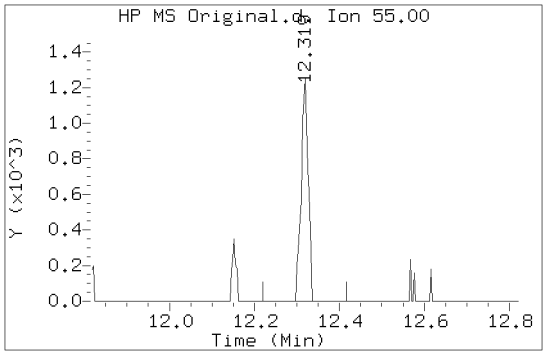


2-Etyhlhexyl Acrylate (103-11-7)

Reason Code:

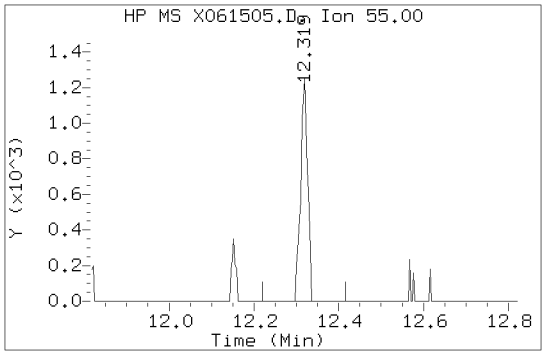
BEFORE

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HEIGHT
1249
12-Jul-2024
11:38
s
zaid



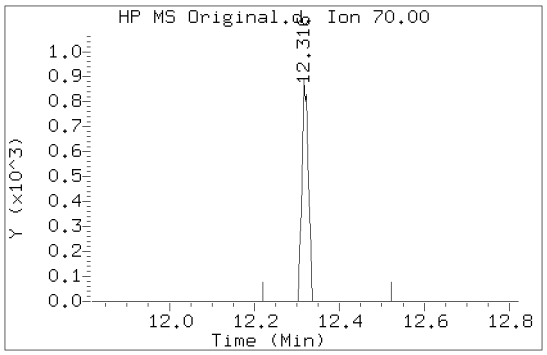
AFTER

MASS
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AREA
1446
HEIGHT
1249
12-Jul-2024
11:38
s
zaid



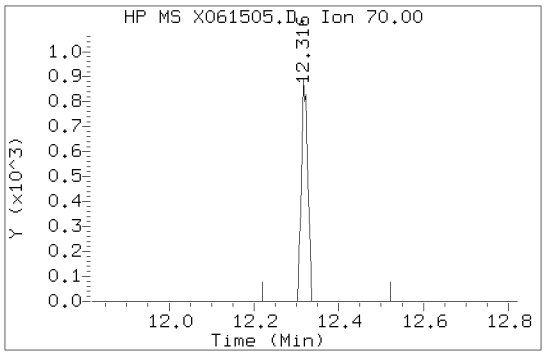
BEFORE

MASS
70
AREA
941
HEIGHT
888
12-Jul-2024
11:38
s
zaid



AFTER

MASS
70
AREA
941
HEIGHT
888
12-Jul-2024
11:38
s
zaid



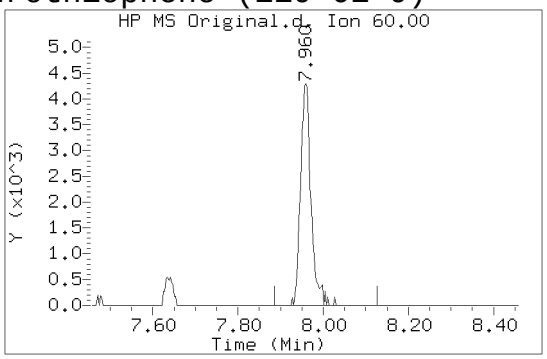
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Inj Date : 15-JUN-2024 15:09
InstruID : voa7.i
LabSampID : VSTD005

Tetrahydrothiophene (110-01-0)

Reason Code:

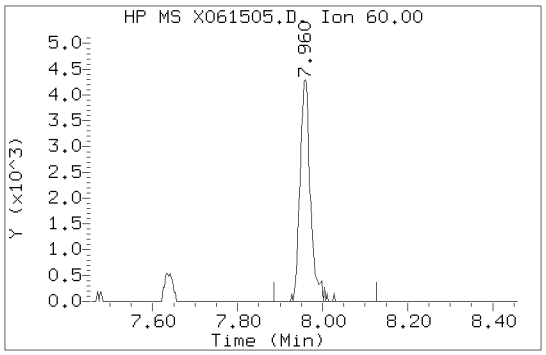
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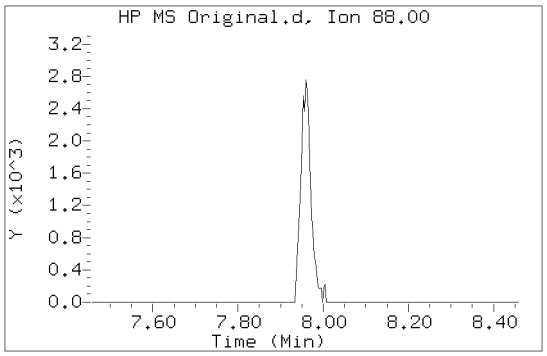
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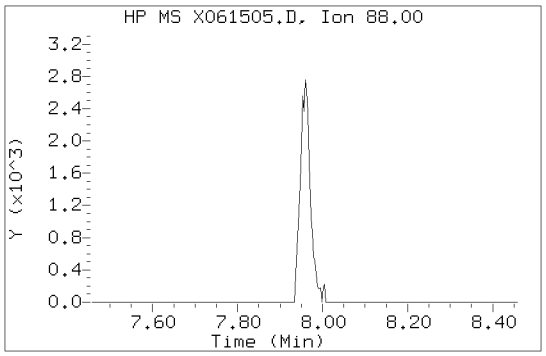
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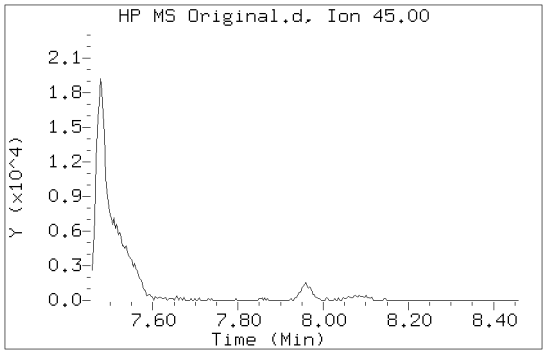
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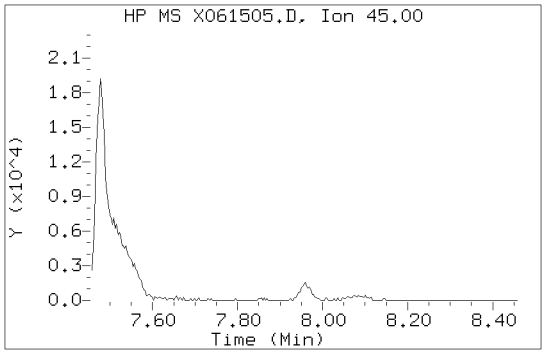
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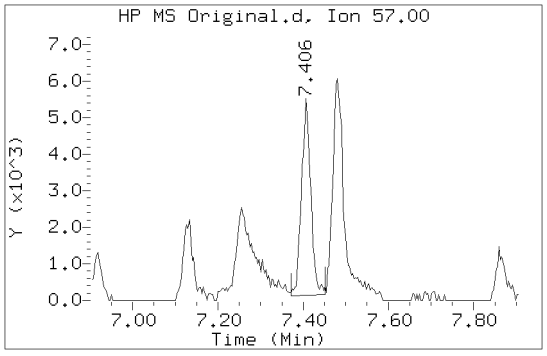


sec-Butyl Ether (6863-58-7)

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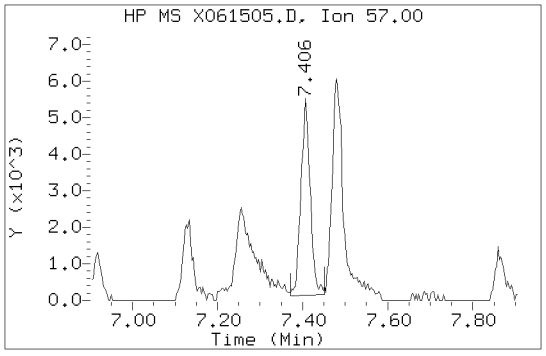
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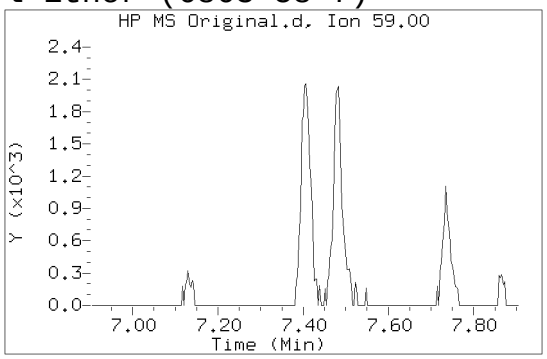


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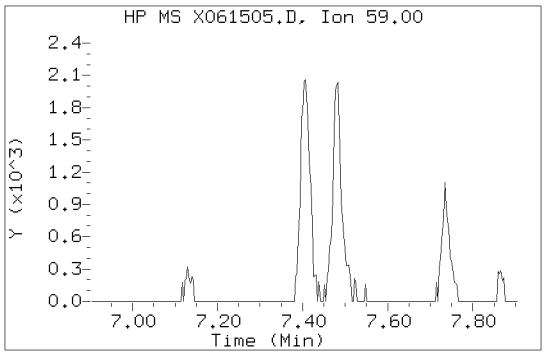
sec-Butyl Ether (6863-58-7)

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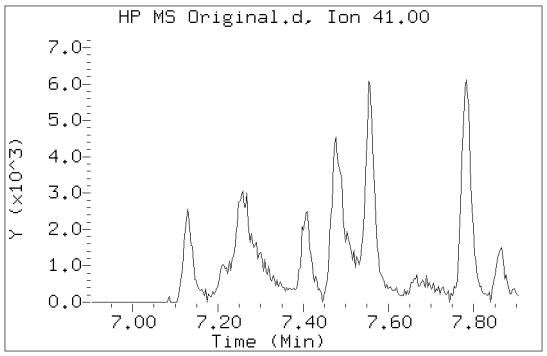
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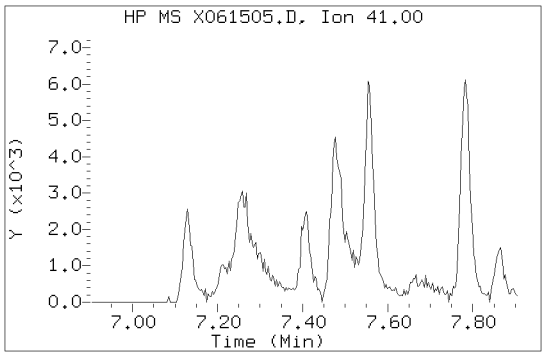
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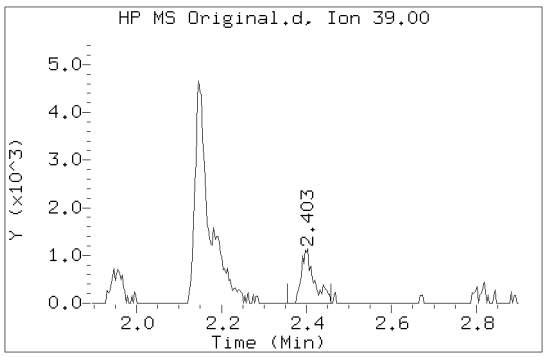
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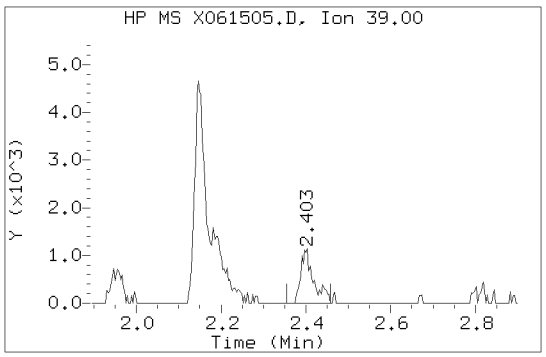
Isoprene (78-79-5)

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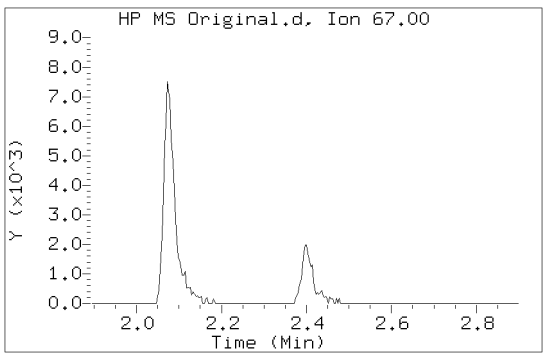
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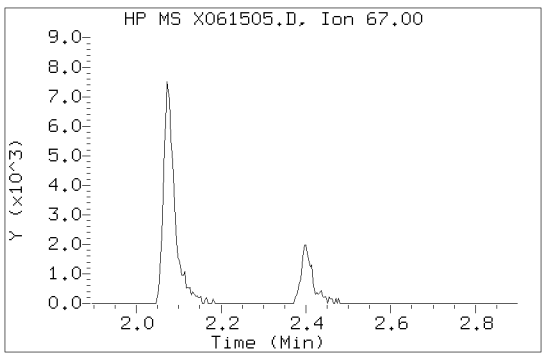
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BEFORE
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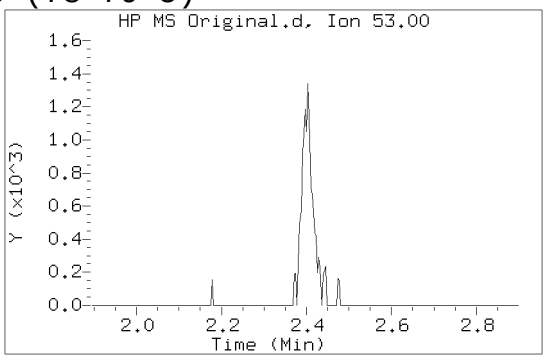
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Isoprene (78-79-5)

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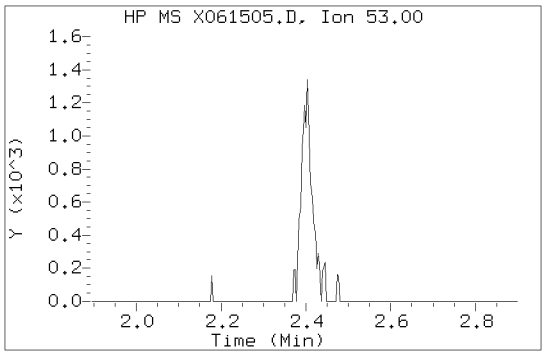
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Report Date: 12-Jul-2024 11:38

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061506.D
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Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	5.133	5.133	(1.000)	128021	50.0000	
2	Dichlorodifluoromethane	85	1.297	1.297	(0.253)	14638	10.0000	10.50
159	Dichlorofluoromethane	67	2.075	2.075	(0.404)	26460	10.0000	9.92
3	Chloromethane	50	1.451	1.451	(0.283)	22083	10.0000	10.42
4	Propionitrile	54	4.673	4.673	(0.910)	18049	100.000	96.50
5	Vinyl Chloride	62	1.535	1.535	(0.299)	19207	10.0000	10.52
6	Bromomethane	94	1.811	1.811	(0.353)	10679	10.0000	9.87
7	Chloroethane	64	1.901	1.901	(0.370)	11324	10.0000	9.98
8	Trichlorofluoromethane	101	2.114	2.114	(0.412)	24641	10.0000	10.25
9	Acrolein	56	2.522	2.522	(0.491)	742	20.0000	20.57
10	Acetone	43	2.670	2.670	(0.520)	10572	20.0000	19.16
11	1,1-Dichloroethene	96	2.589	2.589	(0.505)	13278	10.0000	10.20
12	Isobutyl Alcohol	43	5.570	5.570	(1.085)	45161	200.000	197.51
13	Acetonitrile	39	2.962	2.962	(0.577)	20967	100.000	100.74
14	Allyl Chloride	41	2.959	2.959	(0.577)	42736	10.0000	9.62
15	Iodomethane	142	2.741	2.741	(0.534)	27400	20.0000	19.58
16	Acrylonitrile	53	3.384	3.384	(0.659)	8583	20.0000	18.32
17	Methylene Chloride	84	3.094	3.094	(0.603)	16881	10.0000	9.75
18	Methyl tert-butyl ether	73	3.384	3.384	(0.659)	35843	10.0000	10.08
19	Carbon Disulfide	76	2.795	2.795	(0.545)	83855	20.0000	20.28

20	trans-1,2-Dichloroethene	96	3.377	3.377 (0.658)	14138	10.0000	10.11
21	Vinyl Acetate	43	4.660	4.660 (0.908)	15481	20.0000	18.73

		QUANT SIG					AMOUNTS CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
	22 1,1-Dichloroethane	63	3.863	3.863	(0.753)	29729	10.0000	9.87
	23 Chloroprene	53	3.962	3.962	(0.772)	24627	10.0000	10.27
	24 2-Butanone	43	4.596	4.596	(0.895)	13788	20.0000	19.41
	25 Methacrylonitrile	41	2.152	2.152	(0.419)	19994	10.0000	9.37
	26 2,2-Dichloropropane	77	4.535	4.535	(0.883)	23539	10.0000	9.21
	27 cis-1,2-Dichloroethene	96	4.541	4.541	(0.885)	15946	10.0000	10.01
	28 Chloroform	83	4.908	4.908	(0.956)	28858	10.0000	9.95
	29 Bromochloromethane	128	4.811	4.811	(0.937)	7632	10.0000	9.92
$	30 Dibromofluoromethane	113	5.075	5.075	(0.989)	13555	10.0000	9.01
	31 1,1,1-Trichloroethane	97	5.075	5.075	(0.989)	24009	10.0000	9.98
	32 1,1-Dichloropropene	75	5.242	5.242	(0.896)	20893	10.0000	10.12
	33 1,2-Dichloroethane	62	5.493	5.493	(0.938)	23794	10.0000	9.99
	34 Carbon Tetrachloride	117	5.232	5.232	(0.894)	19473	10.0000	9.99
$	35 1,2-Dichloroethane-d4	65	5.419	5.419	(1.056)	18078	10.0000	9.15
*	36 1,4-Difluorobenzene	114	5.853	5.853	(1.000)	212384	50.0000	
	37 Benzene	78	5.457	5.457	(0.932)	60291	10.0000	10.26
	38 Trichloroethene	130	6.084	6.084	(1.040)	14480	10.0000	9.78
	39 Bromodichloromethane	83	6.573	6.573	(1.123)	21673	10.0000	9.16
	40 Methyl Methacrylate	41	6.432	6.432	(1.253)	15048	10.0000	9.60
	41 2-Chloroethylvinyl ether	63	6.853	6.853	(1.171)	11392	20.0000	19.19
	42 1,2-Dichloropropane	63	6.310	6.310	(1.078)	17398	10.0000	10.34
	43 2-Nitropropane	43	6.795	6.795	(1.324)	4212	10.0000	9.45
	44 Dibromomethane	93	6.422	6.422	(1.097)	9510	10.0000	10.18
	45 4-Methyl-2-Pentanone	43	7.126	7.126	(0.842)	32018	20.0000	19.71
	46 cis-1,3-Dichloropropene	75	6.975	6.975	(1.192)	22745	10.0000	10.11
*	47 Chlorobenzene-d5	117	8.467	8.467	(1.000)	202110	50.0000	
$	48 Toluene-d8	98	7.203	7.203	(0.851)	50267	10.0000	9.17
	49 Ethyl Methacrylate	69	8.078	8.078	(1.380)	17396	10.0000	9.64(M)
	50 Toluene	91	7.264	7.264	(0.858)	62276	10.0000	9.94
	51 trans-1,3-Dichloropropene	75	6.975	6.975	(1.192)	22745	10.0000	10.11
	52 2-Hexanone	43	7.863	7.863	(0.929)	21713	20.0000	18.87
	53 1,1,2-Trichloroethane	83	7.637	7.637	(0.902)	11359	10.0000	9.44
	54 1,3-Dichloropropane	76	7.782	7.782	(0.919)	25023	10.0000	9.77
	55 Dibromochloromethane	129	7.975	7.975	(0.942)	15089	10.0000	9.11
	56 Tetrachloroethene	164	7.740	7.740	(0.914)	11042	10.0000	9.57
	57 1,2-Dibromoethane	107	8.078	8.078	(0.954)	12804	10.0000	10.03
	58 1-Chlorohexane	55	8.467	8.467	(1.447)	17306	10.0000	10.00
	59 Chlorobenzene	112	8.493	8.493	(1.003)	39917	10.0000	9.68
	60 1,1,1,2-Tetrachloroethane	131	8.563	8.563	(1.011)	13676	10.0000	10.12
	61 Ethylbenzene	106	8.583	8.583	(1.014)	20636	10.0000	9.79
	62 m,p-Xylenes	106	8.686	8.686	(1.026)	52278	20.0000	19.81
	63 o-Xylene	106	9.023	9.023	(1.066)	24914	10.0000	9.61
	64 Styrene	104	9.039	9.039	(1.068)	44716	10.0000	9.87
	66 Bromoform	173	9.207	9.207	(1.087)	9670	10.0000	9.26
	67 Isopropylbenzene	105	9.338	9.338	(1.103)	63249	10.0000	9.73
	68 1,1,2,2-Tetrachloroethane	83	9.612	9.612	(0.919)	18424	10.0000	10.13
$	69 4-Bromofluorobenzene	95	9.473	9.473	(1.119)	20656	10.0000	8.99
*	70 1,4-Dichlorobenzene-d4	152	10.457	10.457	(1.000)	102647	50.0000	
	71 1,2,3-Trichloropropane	75	9.650	9.650	(0.923)	20796	10.0000	10.20
	72 trans-1,4-Dichloro-2-butene	53	9.660	9.660	(1.141)	4519	10.0000	10.39
	73 n-Propylbenzene	91	9.689	9.689	(0.927)	76526	10.0000	10.00
	74 Bromobenzene	156	9.605	9.605	(0.919)	17462	10.0000	10.31

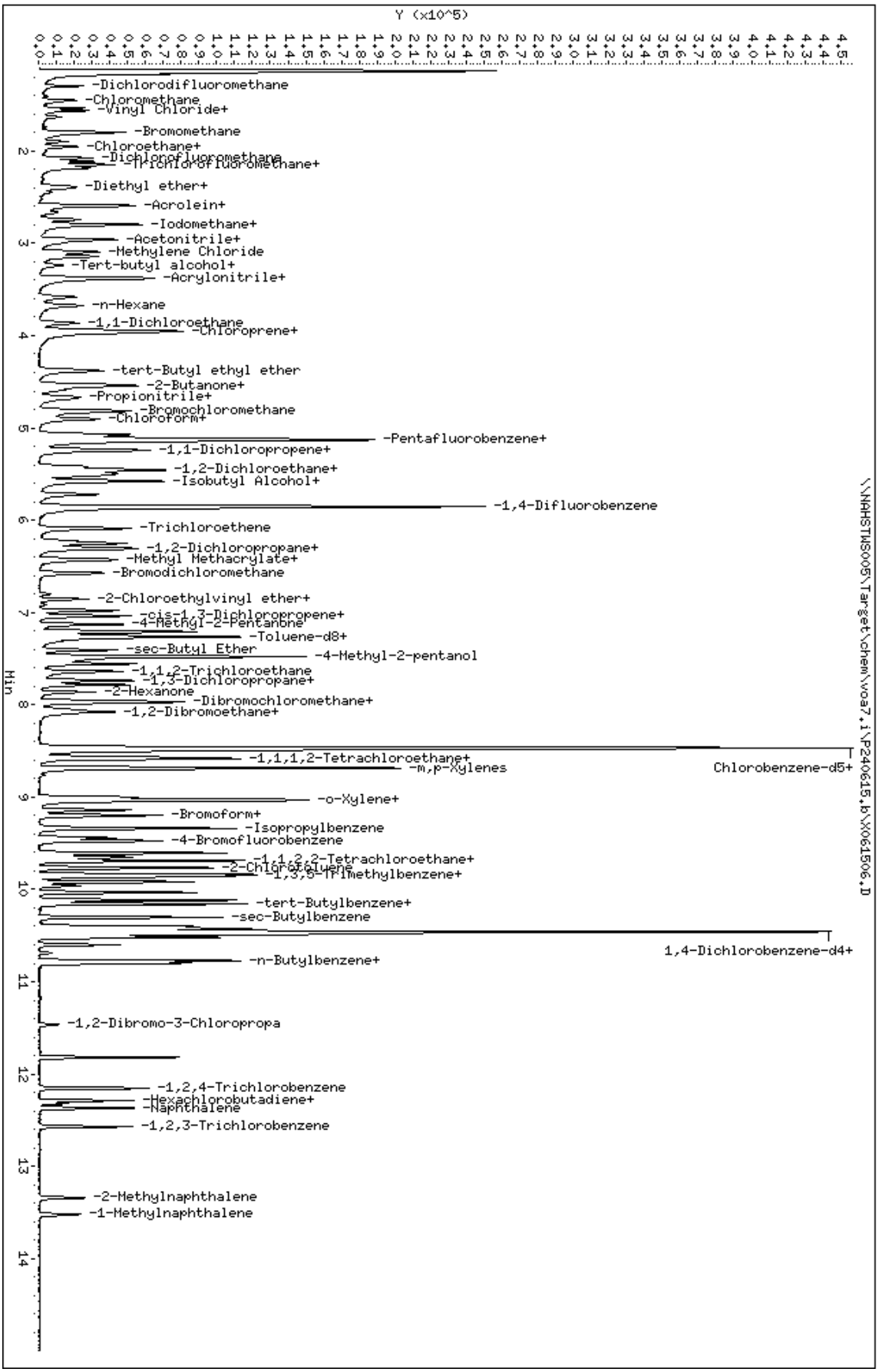
75	1,3,5-Trimethylbenzene	105	9.840	9.840 (0.941)	55087	10.0000	10.16
76	2-Chlorotoluene	91	9.766	9.766 (0.934)	48163	10.0000	9.98

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Report Date: 12-Jul-2024 11:38

						AMOUNTS	
		QUANT SIG				CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
77	4-Chlorotoluene	91	9.859	9.859	(0.943)	56243	10.0000	10.00
78	tert-Butylbenzene	119	10.113	10.113	(0.967)	44107	10.0000	9.57
79	1,2,4-Trimethylbenzene	105	10.158	10.158	(0.971)	54690	10.0000	9.93
81	sec-Butylbenzene	105	10.303	10.303	(0.985)	61000	10.0000	9.90
82	p-Isopropyltoluene	119	10.428	10.428	(0.997)	55271	10.0000	9.94
83	1,3-Dichlorobenzene	146	10.403	10.403	(0.995)	30823	10.0000	9.93
84	1,4-Dichlorobenzene	146	10.480	10.480	(1.002)	31726	10.0000	9.78
87	n-Butylbenzene	91	10.772	10.772	(1.030)	50748	10.0000	9.59
88	1,2-Dichlorobenzene	146	10.798	10.798	(1.033)	29096	10.0000	9.70
89	1,2-Dibromo-3-Chloropropane	75	11.460	11.460	(1.096)	2718	10.0000	8.96
90	1,2,4-Trichlorobenzene	180	12.155	12.155	(1.162)	16917	10.0000	9.36
91	Hexachlorobutadiene	225	12.287	12.287	(1.175)	8542	10.0000	9.76
92	Naphthalene	128	12.370	12.370	(1.183)	37035	10.0000	8.41
93	1,2,3-Trichlorobenzene	182	12.570	12.570	(1.202)	13510	10.0000	8.42
135	1,4-Dioxane	88	6.454	6.454	(1.257)	2043	200.000	185.47(AM)
146	Methyl acetate	43	2.998	2.998	(0.584)	12109	10.0000	11.00
138	Freon TF	101	2.593	2.593	(0.505)	12911	10.0000	10.13
139	Diethyl ether	59	2.384	2.384	(0.464)	7676	10.0000	8.22
140	1,3-Butadiene	54	1.564	1.564	(0.305)	7850	10.0000	10.07
141	Cyclohexane	56	5.113	5.113	(0.996)	23825	10.0000	9.95
147	Methylcyclohexane	83	6.248	6.248	(1.068)	18627	10.0000	10.47
132	n-Butanol	56	6.248	6.248	(1.217)	8125	200.000	199.31(T)
131	Methyl Acrylate	55	4.689	4.689	(0.914)	15184	10.0000	9.80
133	Ethyl Acrylate	55	6.226	6.226	(1.213)	35312	10.0000	9.80(M)
136	n-Hexane	57	3.676	3.676	(0.716)	14466	10.0000	9.44
142	Tetrahydrofuran	42	4.863	4.863	(0.947)	4755	20.0000	21.07
148	Tert-butyl alcohol	59	3.239	3.239	(0.631)	17506	200.000	185.29
149	Isopropyl alcohol	45	2.814	2.814	(0.548)	12916	200.000	175.28
151	4-Methyl-2-pentanol	45	7.477	7.477	(0.883)	105868	200.000	194.68
166	1,2,3-Trimethylbenzene	105	10.518	10.518	(1.006)	48601	10.0000	9.19
167	Ethanol	45	2.306	2.306	(0.449)	2526	200.000	207.73
172	tert-Butyl formate	59	3.239	3.239	(0.631)	17506	20.0000	20.16
173	3,3-Dimethyl-1-butanol	57	8.078	8.078	(0.954)	25111	200.000	199.08(M)
174	tert-Amyl methyl ether	73	5.576	5.576	(1.086)	39115	10.0000	9.86
175	tert-Butyl ethyl ether	59	4.384	4.384	(0.854)	40425	10.0000	9.26
157	2-Methylnaphthalene	142	13.341	13.341	(1.276)	12659	10.0000	7.89
156	Diisopropyl ether	45	3.949	3.949	(0.769)	46789	10.0000	9.20(T)
171	1-Methylnaphthalene	142	13.521	13.521	(1.293)	11383	10.0000	8.03
130	Ethyl Acetate	43	3.949	3.949	(0.769)	85403	10.0000	9.69(T)
176	tert-Amyl alcohol	59	5.512	5.512	(1.074)	15952	200.000	191.19(A)
160	Epichlorohydrin	57	6.911	6.911	(1.181)	3458	40.0000	38.62
161	Butyl acrylate	55	8.998	8.998	(1.063)	32123	10.0000	9.56
182	Isobutylene	56	1.953	1.953	(0.381)	1722	10.0000	9.06(AM)
183	Isopropyl Acetate	43	5.570	5.570	(0.952)	45161	10.0000	10.11(A)
184	n-Amyl acetate	43	9.194	9.194	(1.086)	30467	10.0000	9.63(A)
185	Acetaldehyde	44	1.631	1.631	(0.318)	10172	40.0000	46.03(AM)
186	n-Butyl acetate	43	7.969	7.969	(0.941)	24410	10.0000	9.49(AM)
187	2-Etyhlhexyl Acrylate	55	12.319	12.319	(1.178)	4941	10.0000	7.19(AM)
188	Tetrahydrothiophene	60	7.959	7.959	(0.940)	15450	10.0000	9.54(AM)
189	sec-Butyl Ether	57	7.406	7.406	(0.875)	15913	10.0000	9.91(AM)
190	Isoprene	39	2.403	2.403	(0.468)	4929	10.0000	12.80(AM)
191	2-Chloropropene	41	2.152	2.152	(0.419)	19994	10.0000	9.07(A)

QC Flag Legend

T - Target compound detected outside RT window.
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.



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Client ID: VSTD010
Sample Info: VSTD010;VSTD010;1;5
Purge Volume: 5.0
Column phase: DB624

Instrument: voa7.i
Operator: AP
Column diameter: 0.18

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Page 1

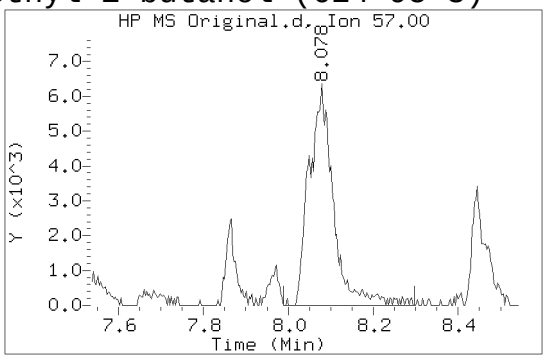
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LabSampID : VSTD010

3,3-Dimethyl-1-butanol (624-95-3)

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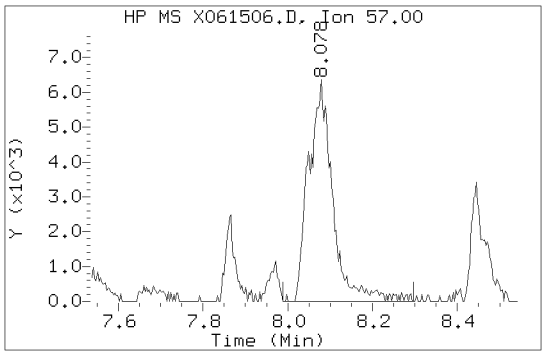
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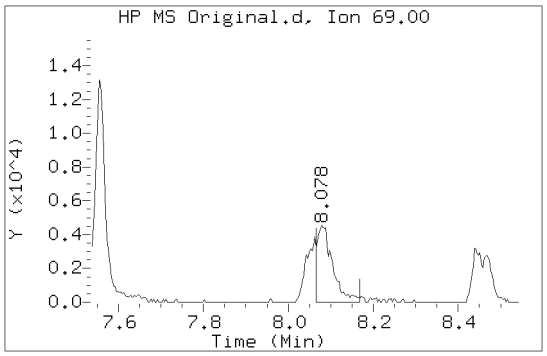
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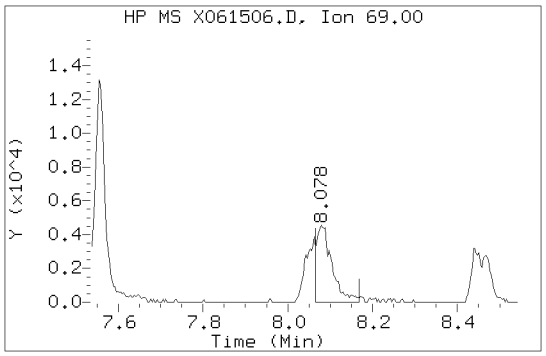
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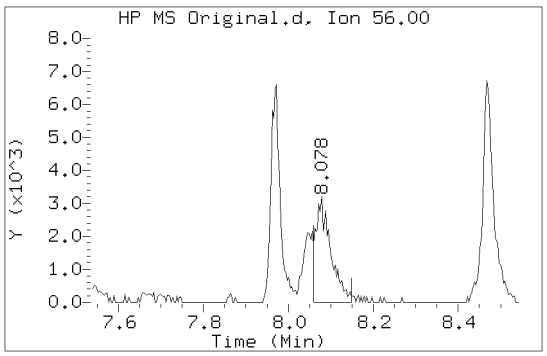
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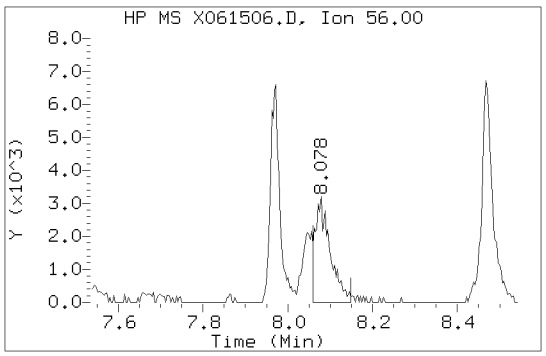
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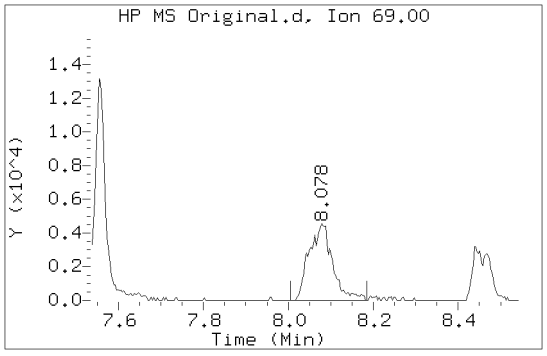


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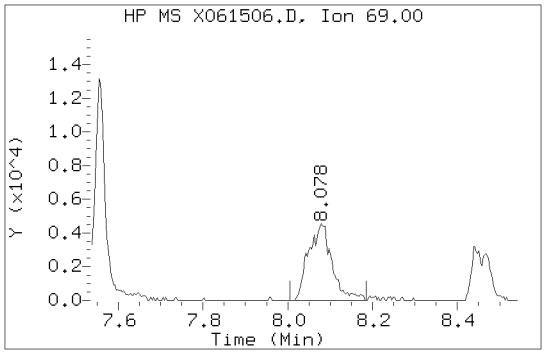
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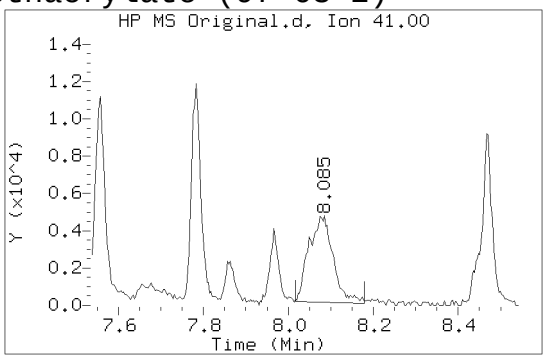
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LabSampID : VSTD010

Ethyl Methacrylate (97-63-2)

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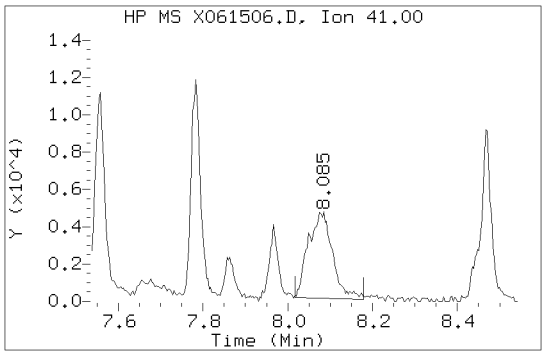
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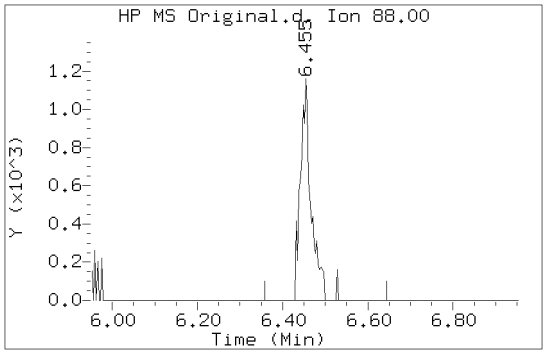


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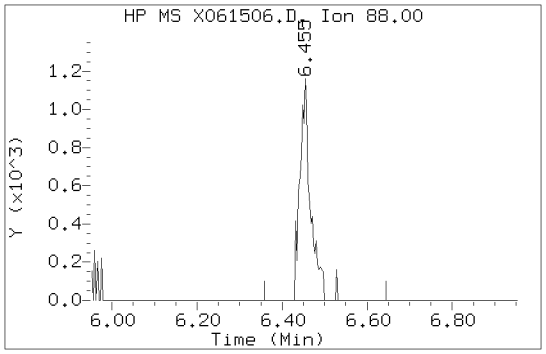
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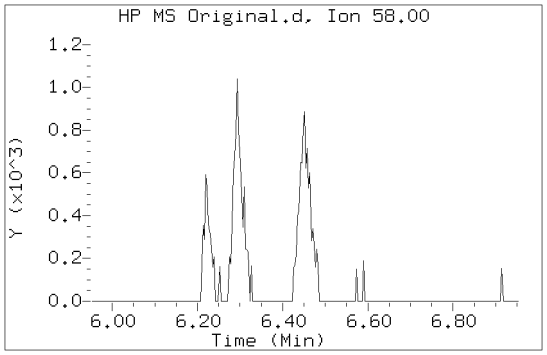
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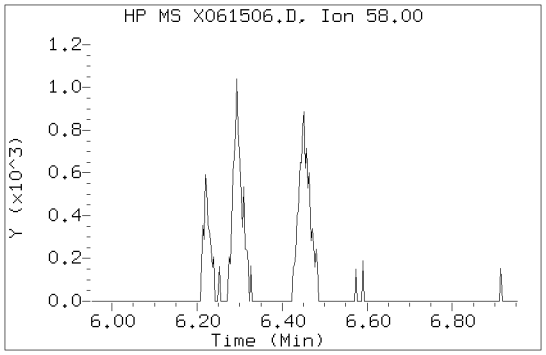
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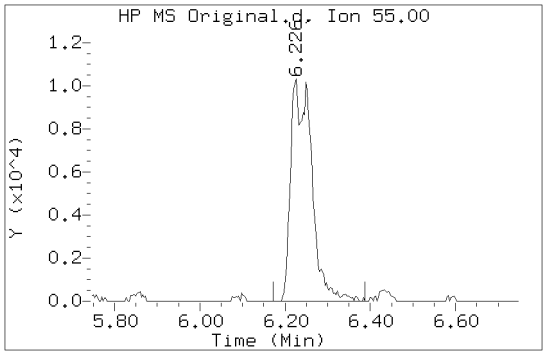


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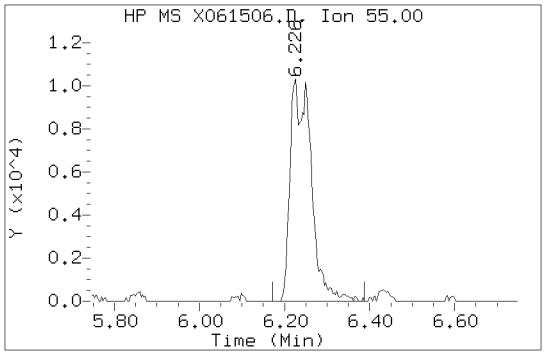
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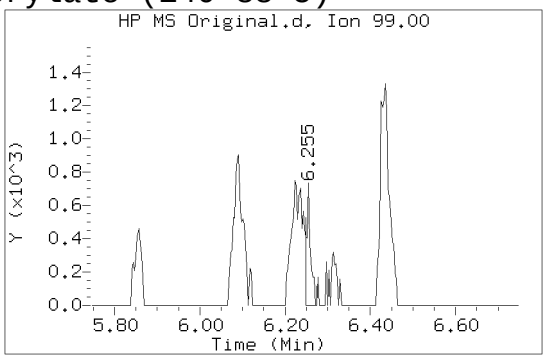
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Ethyl Acrylate (140-88-5)

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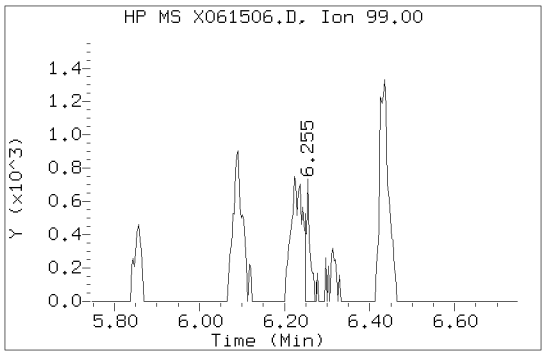
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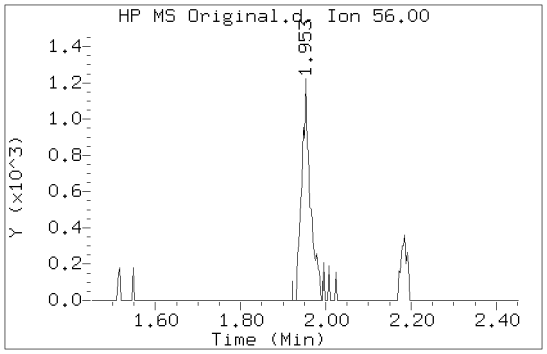


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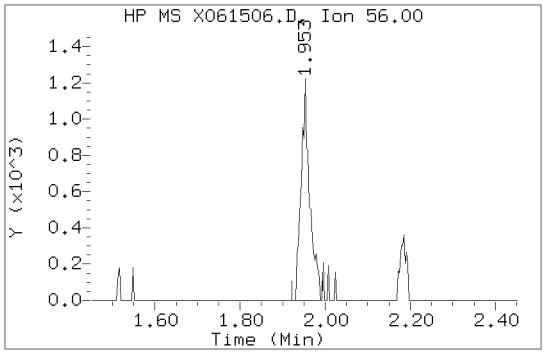
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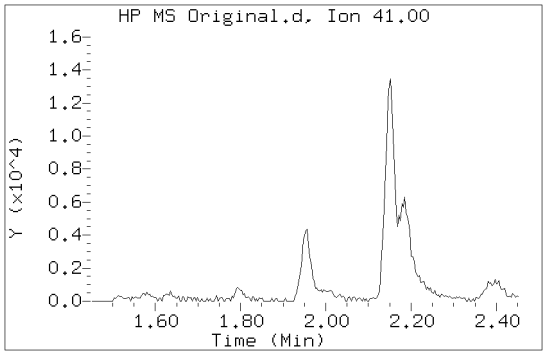
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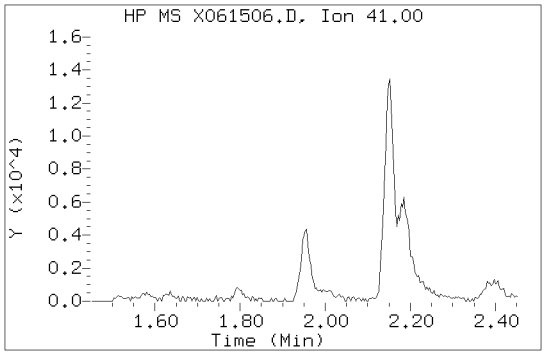
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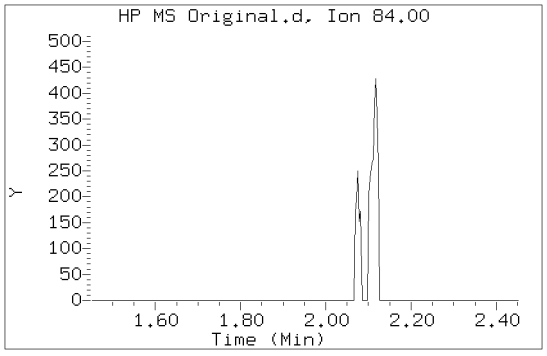
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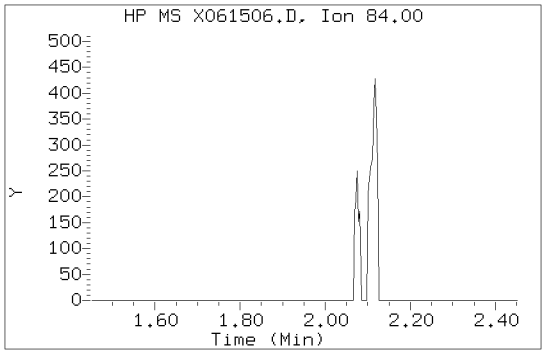
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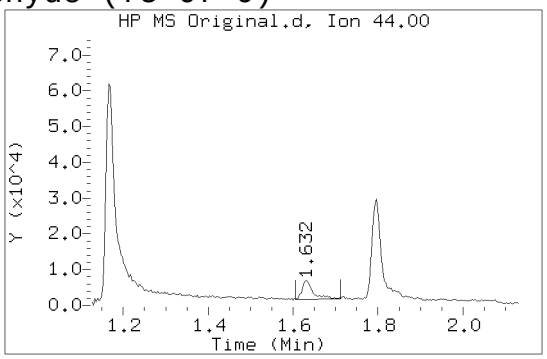
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Acetaldehyde (75-07-0)

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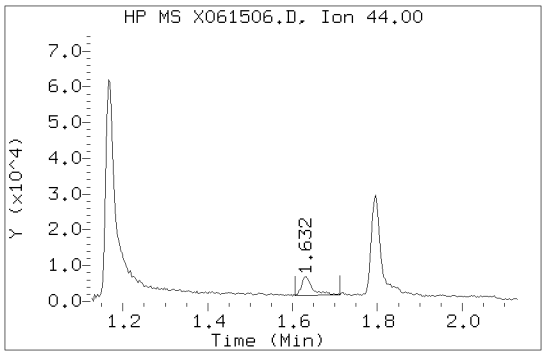
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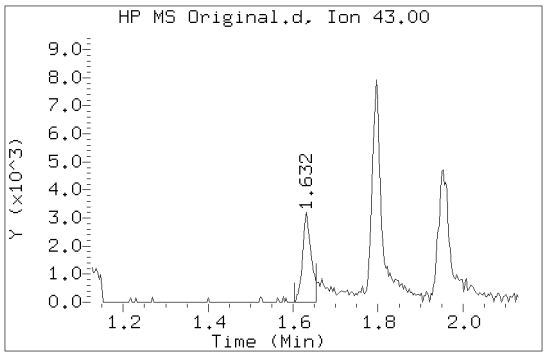
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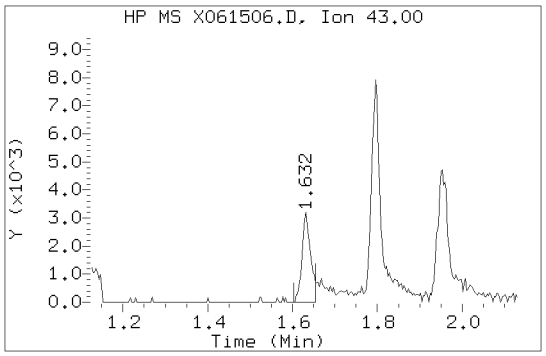
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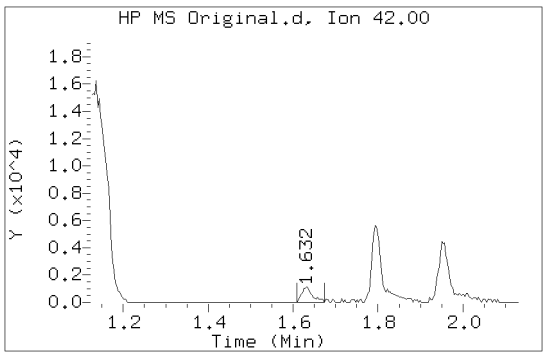
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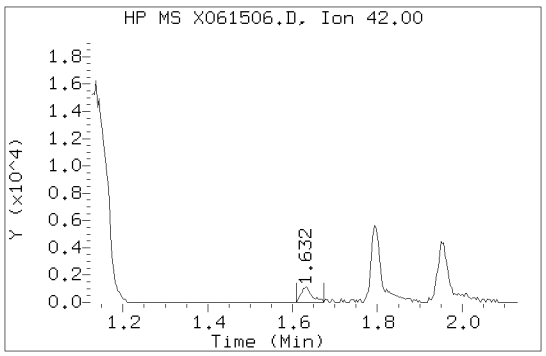
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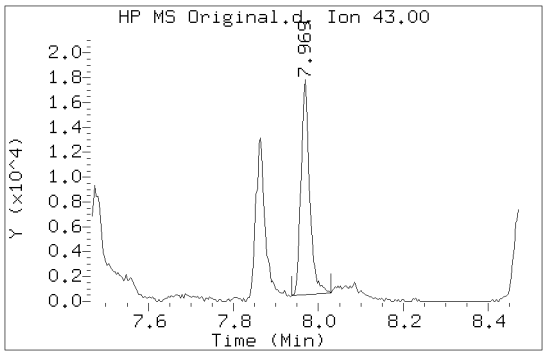


n-Butyl acetate (123-86-4)

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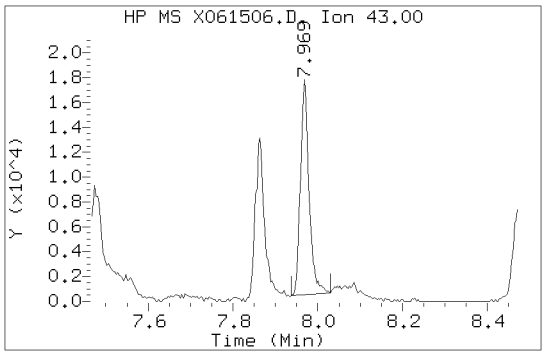
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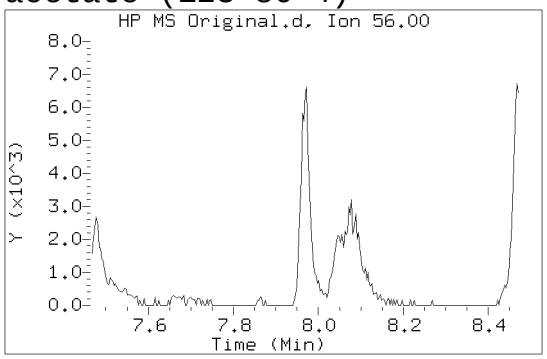
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LabSampID : VSTD010

n-Butyl acetate (123-86-4)

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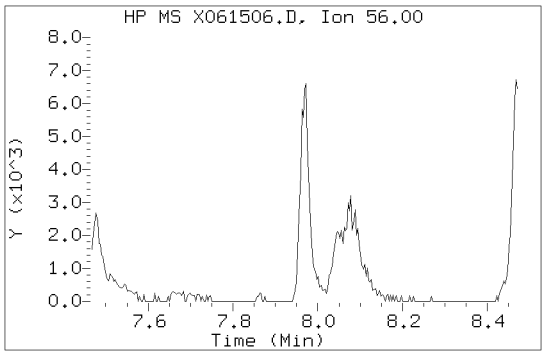
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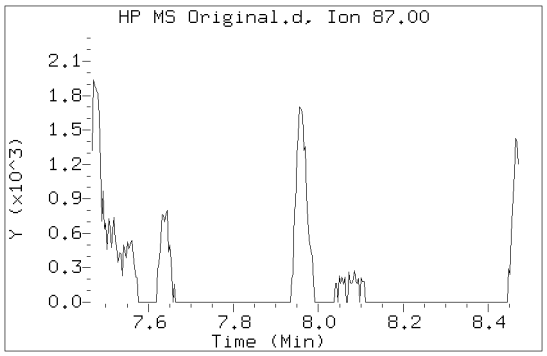
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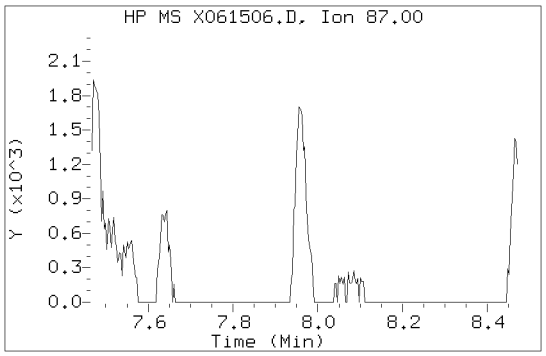
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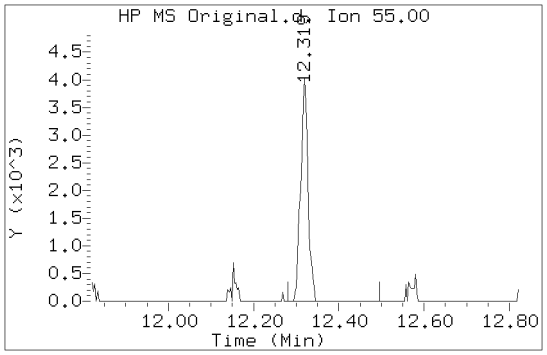


2-Etyhlhexyl Acrylate (103-11-7)

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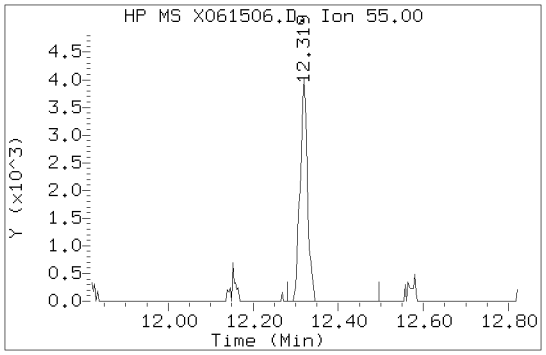
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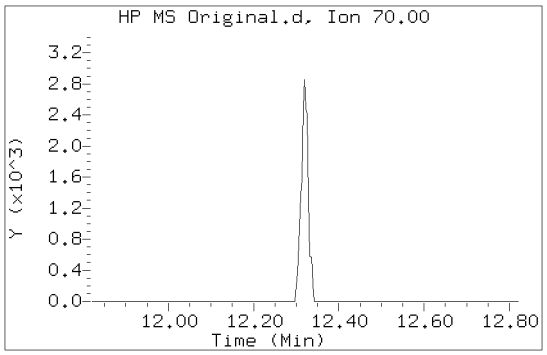
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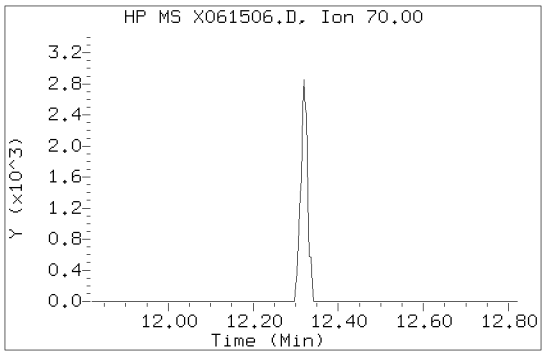
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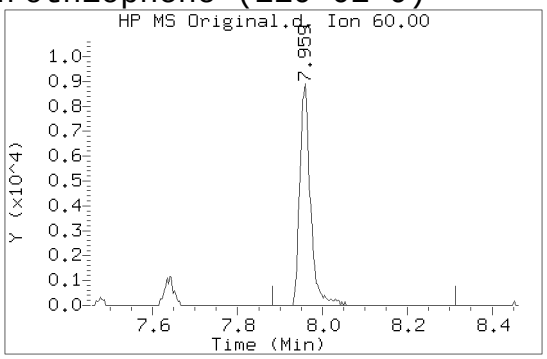
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Tetrahydrothiophene (110-01-0)

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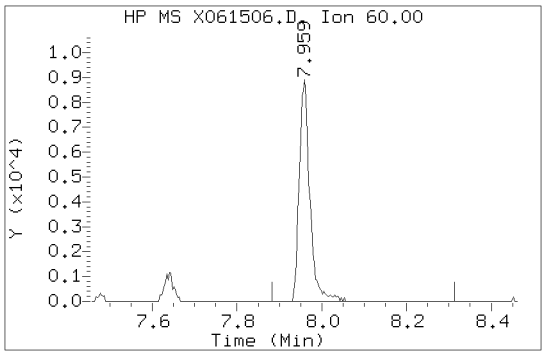
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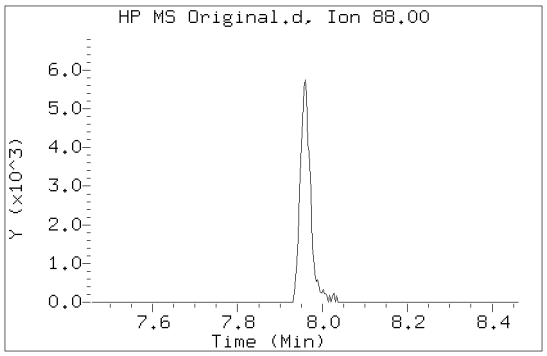
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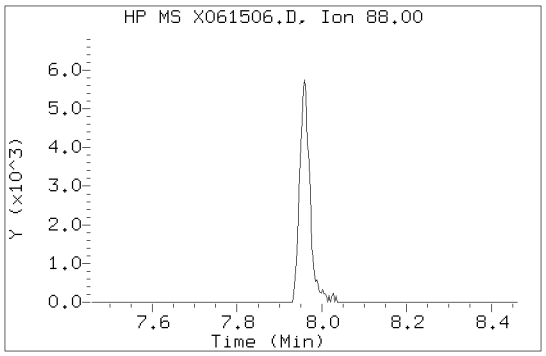
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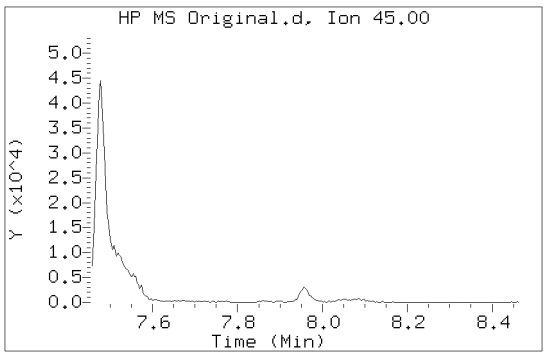
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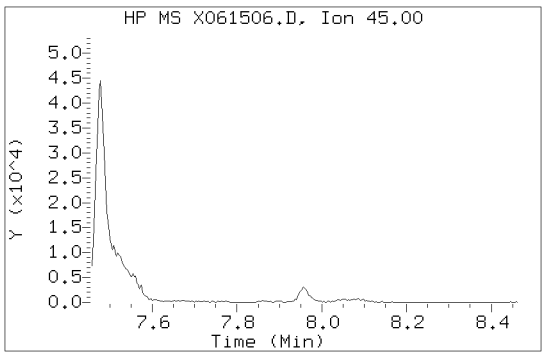
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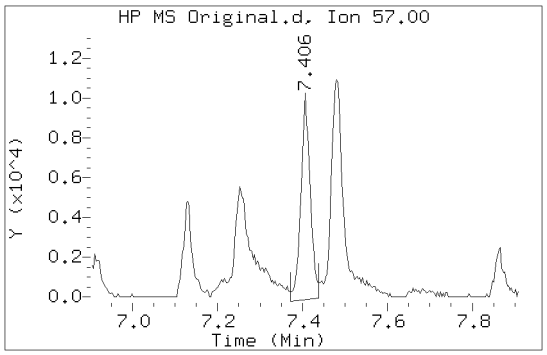


sec-Butyl Ether (6863-58-7)

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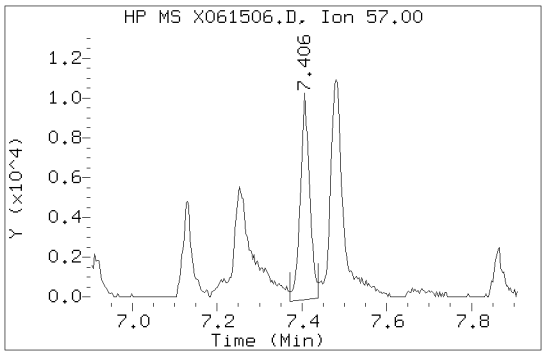
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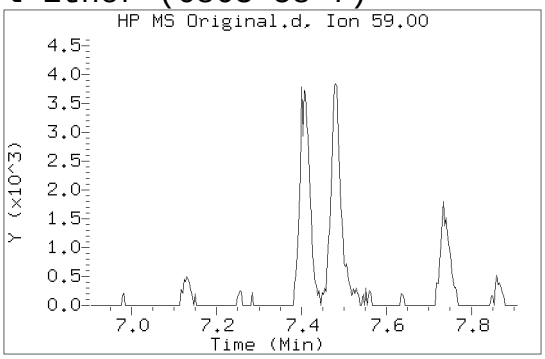


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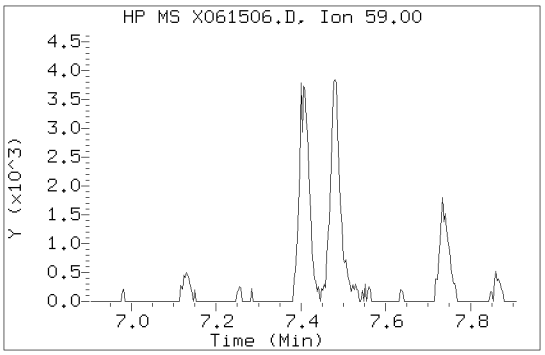
sec-Butyl Ether (6863-58-7)

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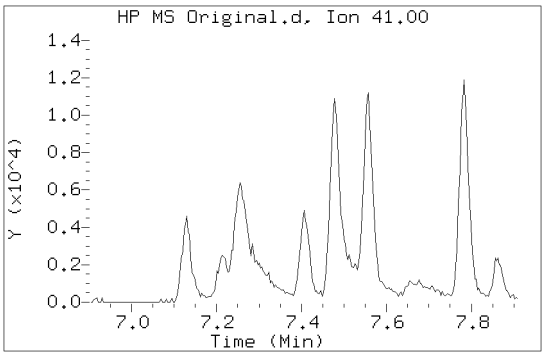
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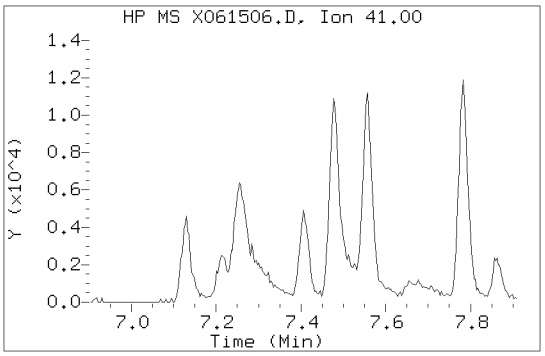
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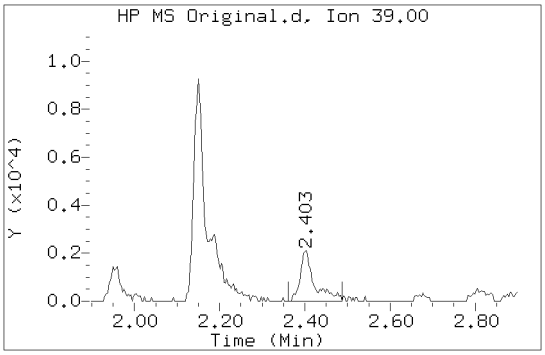
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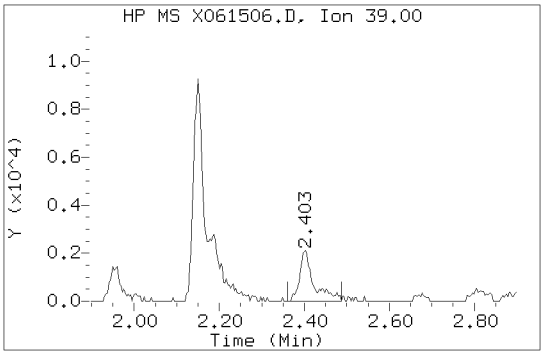
Isoprene (78-79-5)

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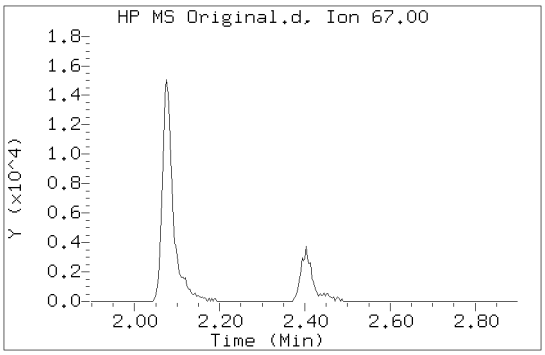
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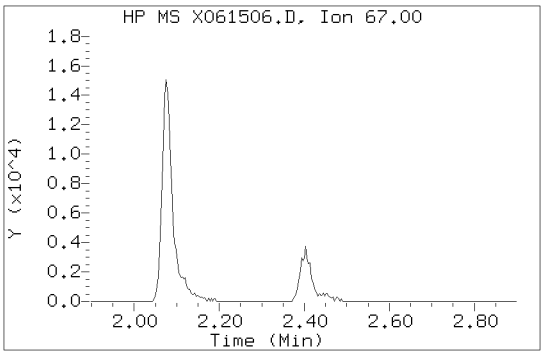
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BEFORE
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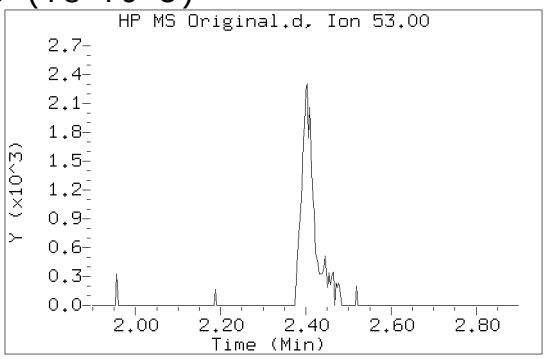
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LabSampID : VSTD010

Isoprene (78-79-5)

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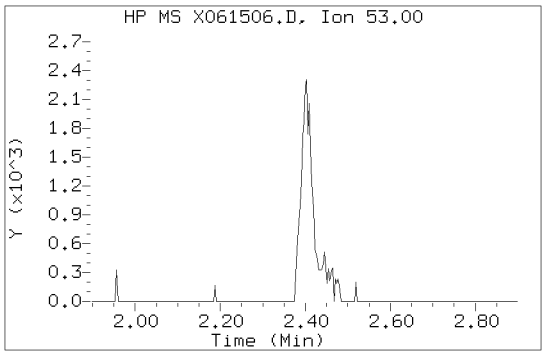
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Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061507.D Page 1
Report Date: 12-Jul-2024 11:43

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061507.D
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Inj Date : 15-JUN-2024 15:55
Operator : AP Inst ID: voa7.i
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Misc Info : HS220328V7;WATER;0;1;
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Cal Date : 15-JUN-2024 17:04 Cal File: X061510.D
Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	5.133	5.133	(1.000)	124594	50.0000	
2	Dichlorodifluoromethane	85	1.297	1.297	(0.253)	28839	20.0000	21.63
159	Dichlorofluoromethane	67	2.075	2.075	(0.404)	52647	20.0000	20.29
3	Chloromethane	50	1.448	1.448	(0.282)	41944	20.0000	21.28
4	Propionitrile	54	4.673	4.673	(0.910)	35353	200.000	204.16
5	Vinyl Chloride	62	1.535	1.535	(0.299)	36777	20.0000	20.83
6	Bromomethane	94	1.811	1.811	(0.353)	20870	20.0000	21.22
7	Chloroethane	64	1.898	1.898	(0.370)	22690	20.0000	21.00
8	Trichlorofluoromethane	101	2.110	2.110	(0.411)	48951	20.0000	21.30
9	Acrolein	56	2.519	2.519	(0.491)	1369	40.0000	38.99
10	Acetone	43	2.667	2.667	(0.520)	20213	40.0000	43.42
11	1,1-Dichloroethene	96	2.593	2.593	(0.505)	26084	20.0000	20.43
12	Isobutyl Alcohol	43	5.573	5.573	(1.086)	89796	400.000	422.96
13	Acetonitrile	39	2.959	2.959	(0.577)	42483	200.000	216.58
14	Allyl Chloride	41	2.959	2.959	(0.577)	86958	20.0000	21.16
15	Iodomethane	142	2.741	2.741	(0.534)	58277	40.0000	38.24
16	Acrylonitrile	53	3.377	3.377	(0.658)	19099	40.0000	43.09
17	Methylene Chloride	84	3.094	3.094	(0.603)	32051	20.0000	20.75
18	Methyl tert-butyl ether	73	3.381	3.381	(0.659)	71378	20.0000	20.33
19	Carbon Disulfide	76	2.795	2.795	(0.545)	166994	40.0000	42.10

20 trans-1,2-Dichloroethene	96	3.377	3.377 (0.658)	28094	20.0000	20.93
21 Vinyl Acetate	43	4.660	4.660 (0.908)	31984	40.0000	43.56

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
22	1,1-Dichloroethane	63	3.863	3.863	(0.753)	56413	20.0000	19.25
23	Chloroprene	53	3.966	3.966	(0.773)	48530	20.0000	20.83
24	2-Butanone	43	4.589	4.589	(0.894)	26703	40.0000	42.88
25	Methacrylonitrile	41	2.149	2.149	(0.419)	44332	20.0000	21.34
26	2,2-Dichloropropane	77	4.538	4.538	(0.884)	49271	20.0000	19.81
27	cis-1,2-Dichloroethene	96	4.548	4.548	(0.886)	30961	20.0000	20.50
28	Chloroform	83	4.905	4.905	(0.956)	56287	20.0000	20.76
29	Bromochloromethane	128	4.805	4.805	(0.936)	14921	20.0000	20.36
$ 30	Dibromofluoromethane	113	5.072	5.072	(0.988)	28103	20.0000	20.45
31	1,1,1-Trichloroethane	97	5.072	5.072	(0.988)	47625	20.0000	20.36
32	1,1-Dichloropropene	75	5.245	5.245	(0.896)	42007	20.0000	20.62
33	1,2-Dichloroethane	62	5.490	5.490	(0.938)	44715	20.0000	19.53
34	Carbon Tetrachloride	117	5.236	5.236	(0.895)	39998	20.0000	19.91
$ 35	1,2-Dichloroethane-d4	65	5.416	5.416	(1.055)	36252	20.0000	19.79
* 36	1,4-Difluorobenzene	114	5.853	5.853	(1.000)	208409	50.0000	
37	Benzene	78	5.454	5.454	(0.932)	118343	20.0000	21.02
38	Trichloroethene	130	6.085	6.085	(1.040)	29895	20.0000	20.74
39	Bromodichloromethane	83	6.573	6.573	(1.123)	42819	20.0000	18.45
40	Methyl Methacrylate	41	6.432	6.432	(1.253)	30778	20.0000	22.12
41	2-Chloroethylvinyl ether	63	6.856	6.856	(1.171)	23020	40.0000	40.76
42	1,2-Dichloropropane	63	6.310	6.310	(1.078)	33533	20.0000	20.72
43	2-Nitropropane	43	6.802	6.802	(1.325)	9001	20.0000	20.35
44	Dibromomethane	93	6.422	6.422	(1.097)	18203	20.0000	19.90
45	4-Methyl-2-Pentanone	43	7.126	7.126	(0.842)	62229	40.0000	41.65
46	cis-1,3-Dichloropropene	75	6.975	6.975	(1.192)	45737	20.0000	20.27
* 47	Chlorobenzene-d5	117	8.467	8.467	(1.000)	194699	50.0000	
$ 48	Toluene-d8	98	7.207	7.207	(0.851)	99784	20.0000	20.40
49	Ethyl Methacrylate	69	8.078	8.078	(1.380)	34541	20.0000	19.32
50	Toluene	91	7.265	7.265	(0.858)	122540	20.0000	20.96
51	trans-1,3-Dichloropropene	75	6.975	6.975	(1.192)	45737	20.0000	20.27
52	2-Hexanone	43	7.863	7.863	(0.929)	41660	40.0000	40.54
53	1,1,2-Trichloroethane	83	7.641	7.641	(0.902)	22410	20.0000	20.23
54	1,3-Dichloropropane	76	7.785	7.785	(0.919)	49217	20.0000	20.75
55	Dibromochloromethane	129	7.975	7.975	(0.942)	29764	20.0000	18.66
56	Tetrachloroethene	164	7.734	7.734	(0.913)	23595	20.0000	21.34
57	1,2-Dibromoethane	107	8.072	8.072	(0.953)	24851	20.0000	21.14
58	1-Chlorohexane	55	8.470	8.470	(1.447)	32894	20.0000	21.56
59	Chlorobenzene	112	8.490	8.490	(1.003)	80596	20.0000	21.03
60	1,1,1,2-Tetrachloroethane	131	8.567	8.567	(1.012)	26330	20.0000	19.77
61	Ethylbenzene	106	8.580	8.580	(1.013)	41428	20.0000	20.99
62	m,p-Xylenes	106	8.683	8.683	(1.025)	102849	40.0000	41.60
63	o-Xylene	106	9.027	9.027	(1.066)	50923	20.0000	21.24
64	Styrene	104	9.039	9.039	(1.068)	88577	20.0000	20.96
66	Bromoform	173	9.203	9.203	(1.087)	18630	20.0000	18.52
67	Isopropylbenzene	105	9.338	9.338	(1.103)	129852	20.0000	21.12
68	1,1,2,2-Tetrachloroethane	83	9.612	9.612	(0.919)	34557	20.0000	20.50
$ 69	4-Bromofluorobenzene	95	9.474	9.474	(1.119)	39550	20.0000	19.81
* 70	1,4-Dichlorobenzene-d4	152	10.457	10.457	(1.000)	98711	50.0000	
71	1,2,3-Trichloropropane	75	9.647	9.647	(0.923)	39172	20.0000	20.56
72	trans-1,4-Dichloro-2-butene	53	9.657	9.657	(1.140)	8453	20.0000	20.02
73	n-Propylbenzene	91	9.689	9.689	(0.927)	156297	20.0000	21.22
74	Bromobenzene	156	9.602	9.602	(0.918)	33759	20.0000	20.94

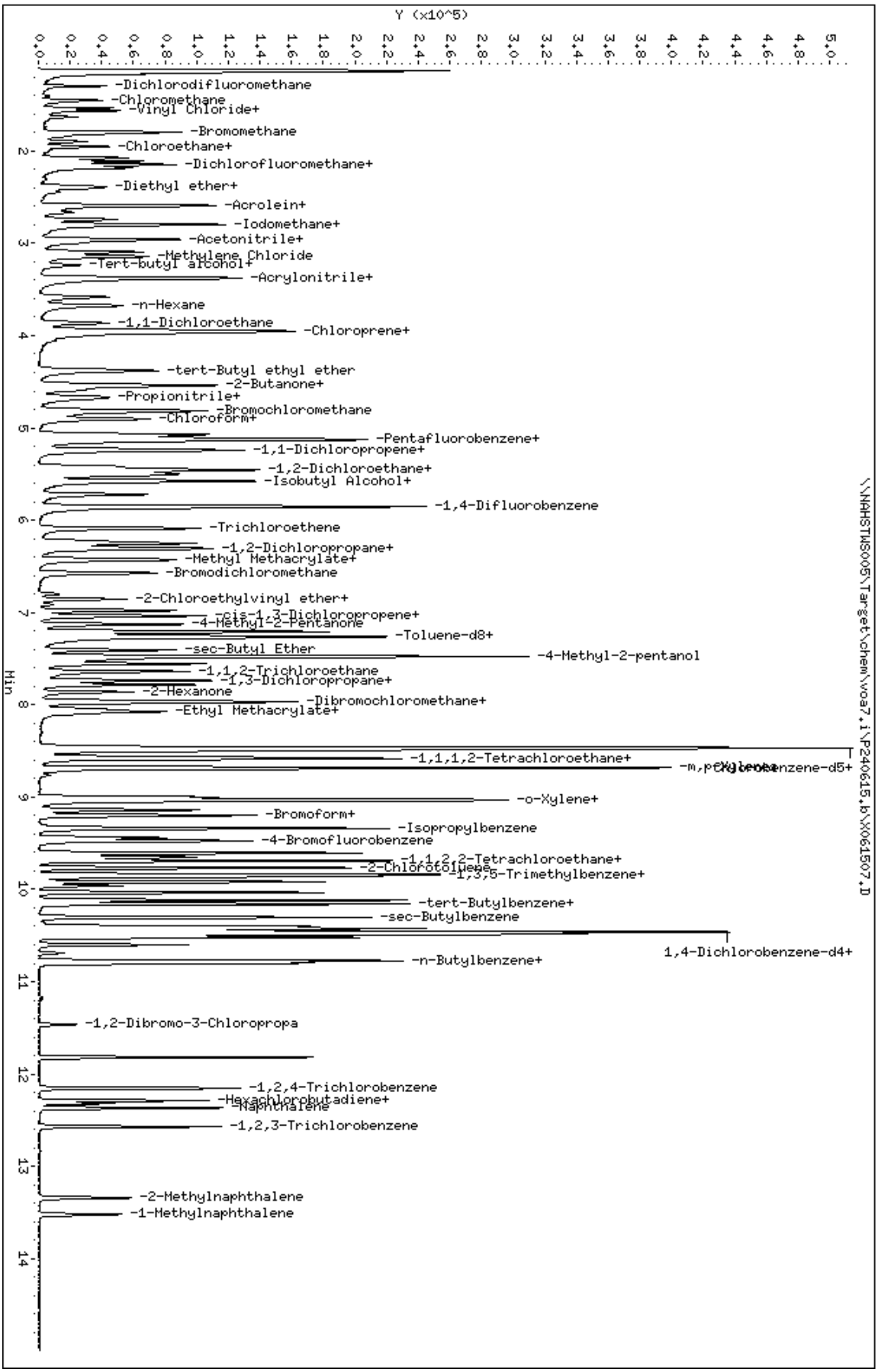
75	1,3,5-Trimethylbenzene	105	9.837	9.837 (0.941)	111094	20.0000	21.07
76	2-Chlorotoluene	91	9.766	9.766 (0.934)	96301	20.0000	21.26

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061507.D Page 3
Report Date: 12-Jul-2024 11:43

						AMOUNTS	
		QUANT SIG				CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT RESPONSE	(ug/l)	(ug/l)
77	4-Chlorotoluene	91	9.859	9.859	(0.943) 112941	20.0000	21.18
78	tert-Butylbenzene	119	10.117	10.117	(0.967) 93334	20.0000	21.35
79	1,2,4-Trimethylbenzene	105	10.158	10.158	(0.971) 111249	20.0000	21.16
81	sec-Butylbenzene	105	10.303	10.303	(0.985) 126981	20.0000	21.21
82	p-Isopropyltoluene	119	10.425	10.425	(0.997) 112629	20.0000	20.88
83	1,3-Dichlorobenzene	146	10.403	10.403	(0.995) 61913	20.0000	20.89
84	1,4-Dichlorobenzene	146	10.477	10.477	(1.002) 63976	20.0000	21.00
87	n-Butylbenzene	91	10.772	10.772	(1.030) 106249	20.0000	20.93
88	1,2-Dichlorobenzene	146	10.798	10.798	(1.033) 58851	20.0000	20.63
89	1,2-Dibromo-3-Chloropropane	75	11.461	11.461	(1.096) 5385	20.0000	18.45
90	1,2,4-Trichlorobenzene	180	12.152	12.152	(1.162) 35263	20.0000	19.34
91	Hexachlorobutadiene	225	12.287	12.287	(1.175) 17891	20.0000	20.41
92	Naphthalene	128	12.367	12.367	(1.183) 76418	20.0000	18.04
93	1,2,3-Trichlorobenzene	182	12.570	12.570	(1.202) 28600	20.0000	18.55
135	1,4-Dioxane	88	6.448	6.448	(1.256) 3941	400.000	382.08(TAM)
146	Methyl acetate	43	2.991	2.991	(0.583) 21764	20.0000	21.11(T)
138	Freon TF	101	2.593	2.593	(0.505) 26055	20.0000	20.69
139	Diethyl ether	59	2.384	2.384	(0.464) 16456	20.0000	18.11
140	1,3-Butadiene	54	1.564	1.564	(0.305) 16653	20.0000	21.08
141	Cyclohexane	56	5.110	5.110	(0.996) 46236	20.0000	20.49
147	Methylcyclohexane	83	6.249	6.249	(1.068) 39114	20.0000	20.09
132	n-Butanol	56	6.249	6.249	(1.217) 17201	400.000	433.56(T)
131	Methyl Acrylate	55	4.689	4.689	(0.914) 29836	20.0000	21.09
133	Ethyl Acrylate	55	6.223	6.223	(1.212) 71264	20.0000	20.32
136	n-Hexane	57	3.676	3.676	(0.716) 31606	20.0000	20.29
142	Tetrahydrofuran	42	4.863	4.863	(0.947) 9492	40.0000	41.68
148	Tert-butyl alcohol	59	3.239	3.239	(0.631) 35062	400.000	381.32
149	Isopropyl alcohol	45	2.815	2.815	(0.548) 28470	400.000	435.56
151	4-Methyl-2-pentanol	45	7.477	7.477	(0.883) 205136	400.000	398.00
166	1,2,3-Trimethylbenzene	105	10.518	10.518	(1.006) 97162	20.0000	19.11
167	Ethanol	45	2.307	2.307	(0.449) 4446	400.000	403.25
172	tert-Butyl formate	59	3.239	3.239	(0.631) 35062	40.0000	44.12
173	3,3-Dimethyl-1-butanol	57	8.046	8.046	(0.950) 46934	400.000	380.13
174	tert-Amyl methyl ether	73	5.577	5.577	(1.086) 78689	20.0000	20.58
175	tert-Butyl ethyl ether	59	4.377	4.377	(0.853) 83072	20.0000	19.55
157	2-Methylnaphthalene	142	13.342	13.342	(1.276) 28291	20.0000	18.35
156	Diisopropyl ether	45	3.946	3.946	(0.769) 95776	20.0000	19.35(T)
171	1-Methylnaphthalene	142	13.522	13.522	(1.293) 23644	20.0000	17.35
130	Ethyl Acetate	43	3.946	3.946	(0.769) 170533	20.0000	19.73(T)
176	tert-Amyl alcohol	59	5.515	5.515	(1.075) 31609	400.000	415.00(A)
160	Epichlorohydrin	57	6.917	6.917	(1.182) 7172	80.0000	80.14
161	Butyl acrylate	55	8.998	8.998	(1.063) 64266	20.0000	19.58
182	Isobutylene	56	1.956	1.956	(0.381) 4122	20.0000	20.63(AM)
183	Isopropyl Acetate	43	5.573	5.573	(0.952) 89796	20.0000	21.11(A)
184	n-Amyl acetate	43	9.194	9.194	(1.086) 61241	20.0000	19.49(A)
185	Acetaldehyde	44	1.631	1.631	(0.318) 18371	80.0000	89.09(AM)
186	n-Butyl acetate	43	7.969	7.969	(0.941) 46894	20.0000	19.79(TAM)
187	2-Etyhlhexyl Acrylate	55	12.319	12.319	(1.178) 14116	20.0000	14.43(AM)
188	Tetrahydrothiophene	60	7.959	7.959	(0.940) 30843	20.0000	19.95(TAM)
189	sec-Butyl Ether	57	7.406	7.406	(0.875) 30749	20.0000	22.38(TAM)
190	Isoprene	39	2.403	2.403	(0.468) 7304	20.0000	19.30(TAM)
191	2-Chloropropene	41	2.149	2.149	(0.419) 44332	20.0000	20.68(A)

QC Flag Legend

T - Target compound detected outside RT window.
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.



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Client ID: VSTD020
Sample Info: VSTD020;VSTD020;1;6
Purge Volume: 5.0
Column phase: DB624

Instrument: voa7,i
Operator: AP
Column diameter: 0.18

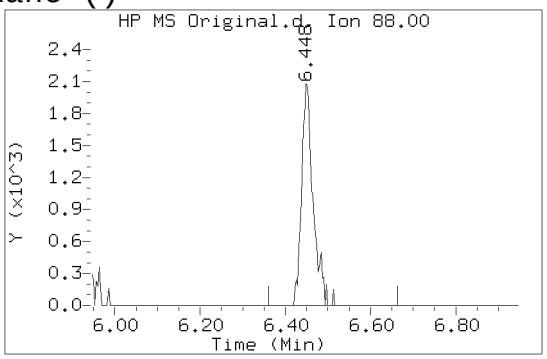
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Inj Date : 15-JUN-2024 15:55
InstruID : voa7.i
LabSampID : VSTD020

1,4-Dioxane ()

Reason Code:

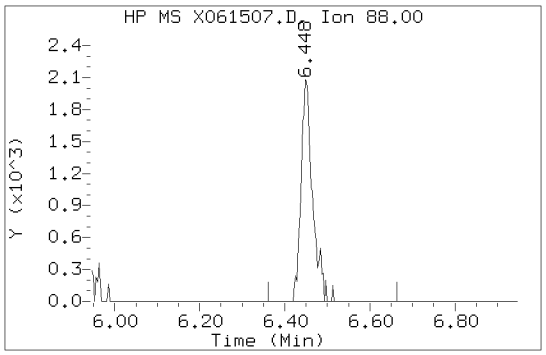
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12-Jul-2024
11:43
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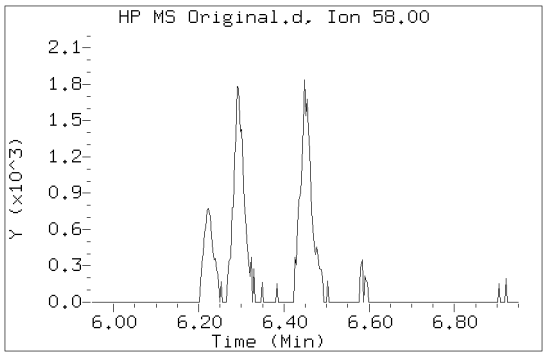
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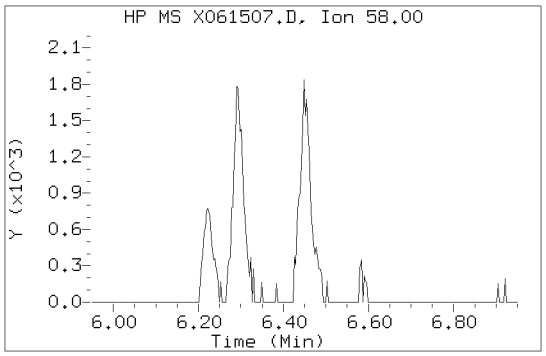
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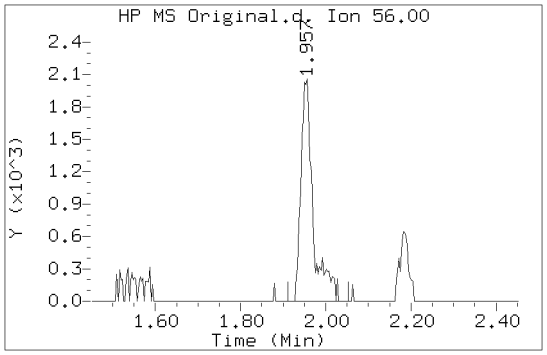


Isobutylene (115-11-7)

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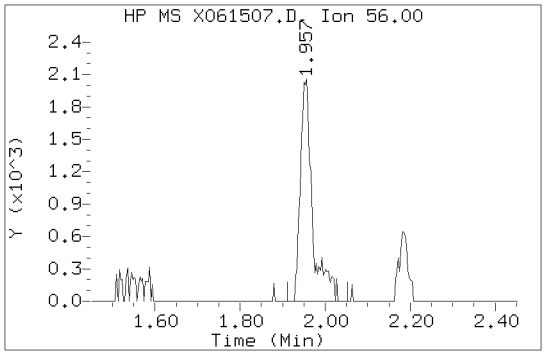
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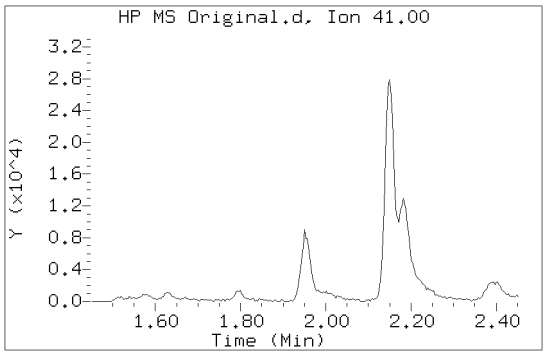
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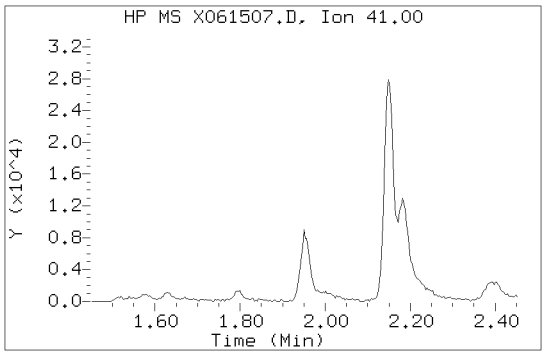
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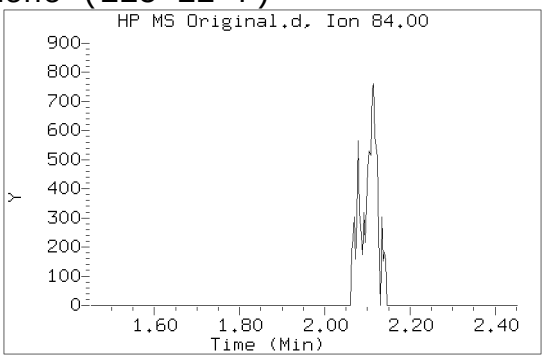
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LabSampID : VSTD020

Isobutylene (115-11-7)

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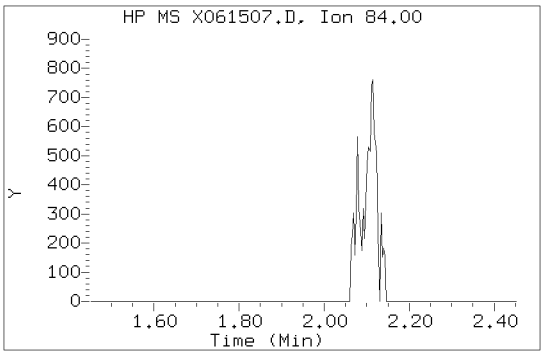
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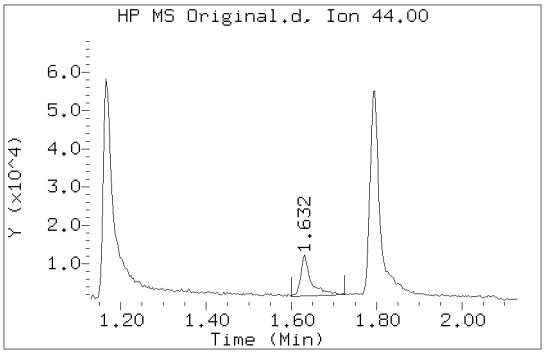


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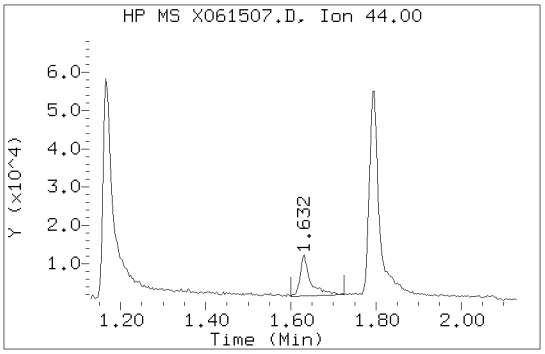
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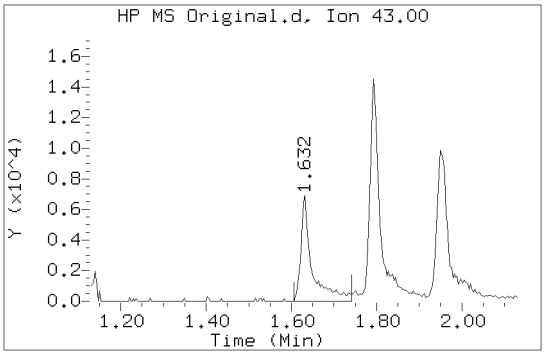
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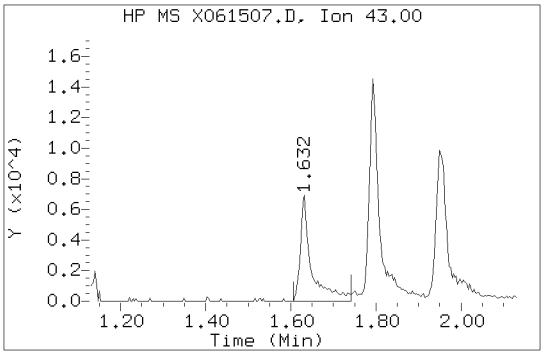
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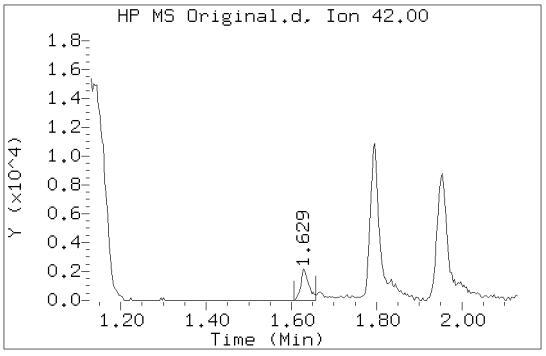
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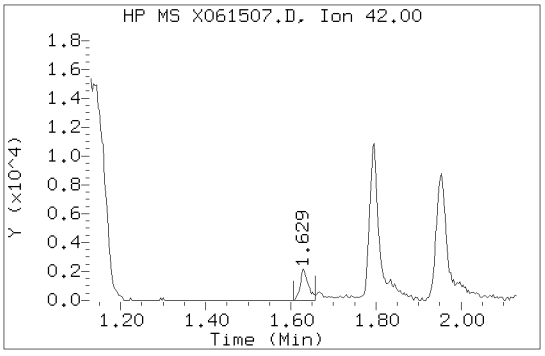
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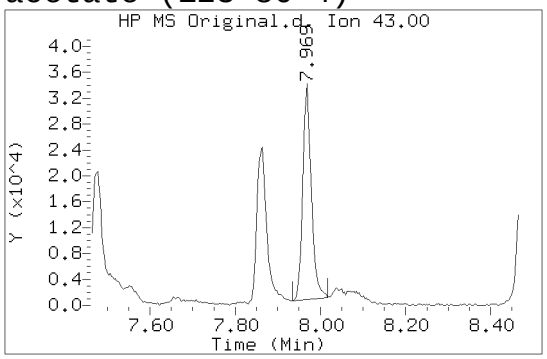
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Inj Date : 15-JUN-2024 15:55
InstruID : voa7.i
LabSampID : VSTD020

n-Butyl acetate (123-86-4)

Reason Code:

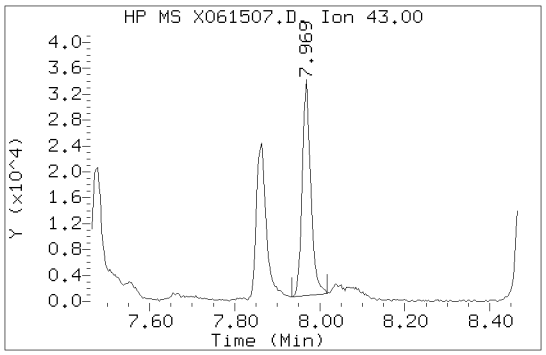
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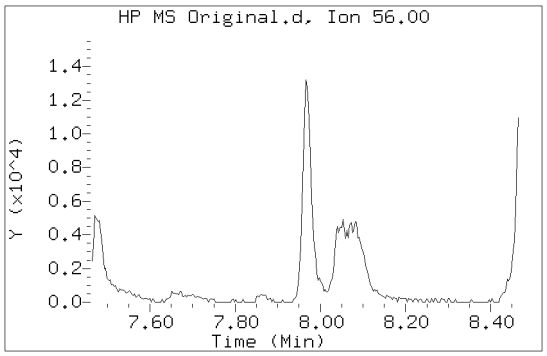
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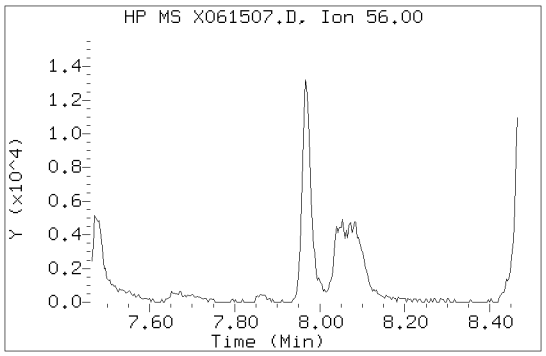
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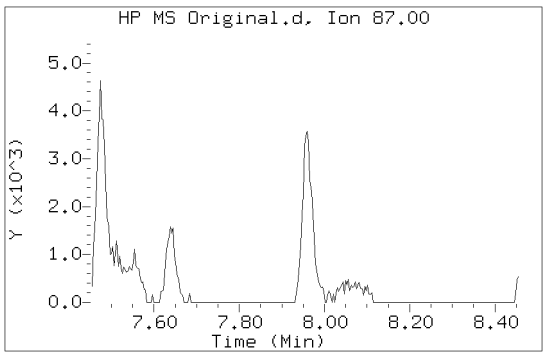
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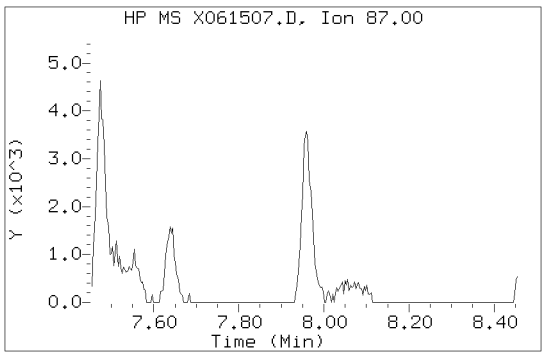
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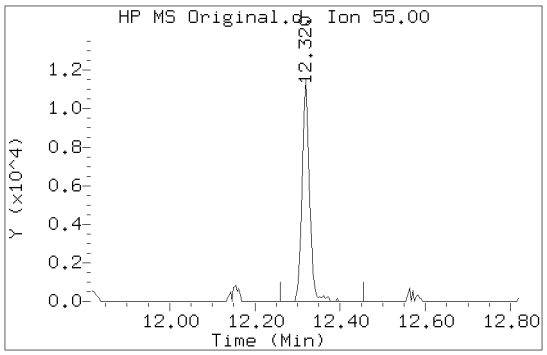


2-Etyhlhexyl Acrylate (103-11-7)

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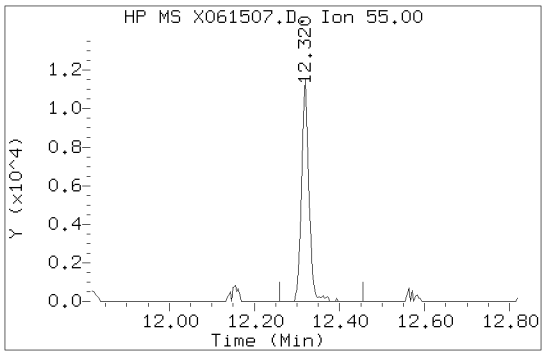
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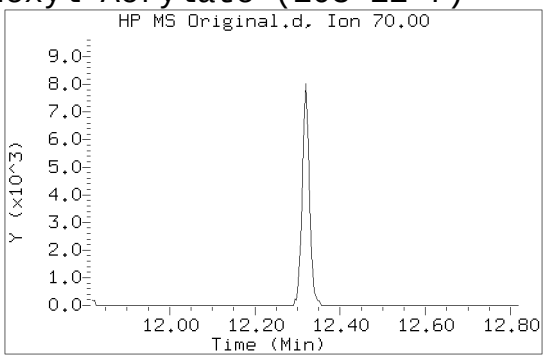
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LabSampID : VSTD020

2-Etyhlhexyl Acrylate (103-11-7)

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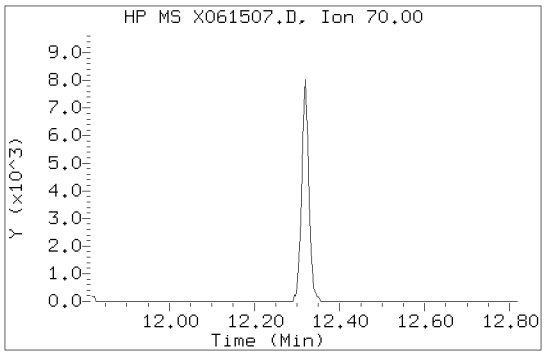
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AFTER

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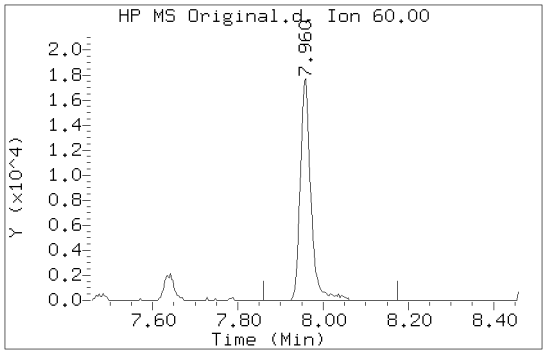


Tetrahydrothiophene (110-01-0)

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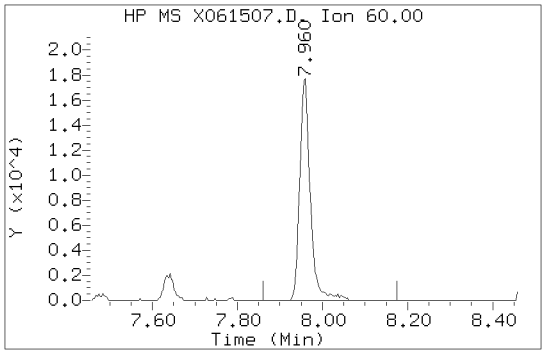
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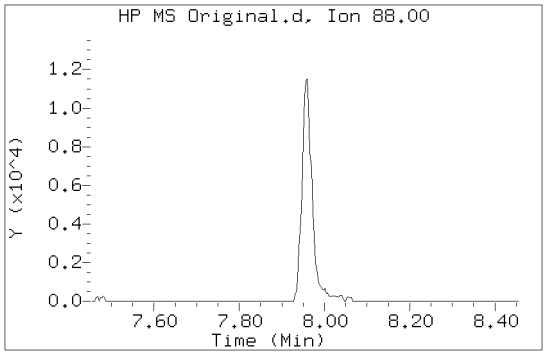
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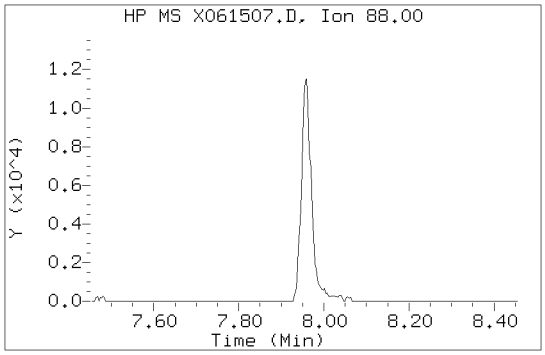
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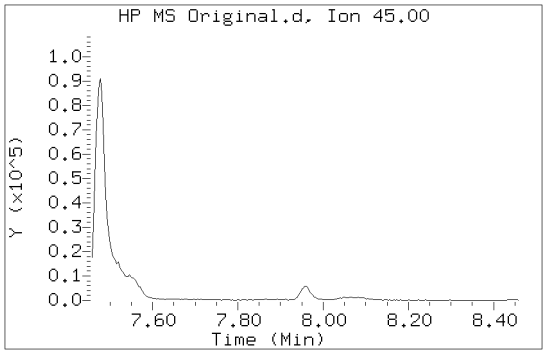
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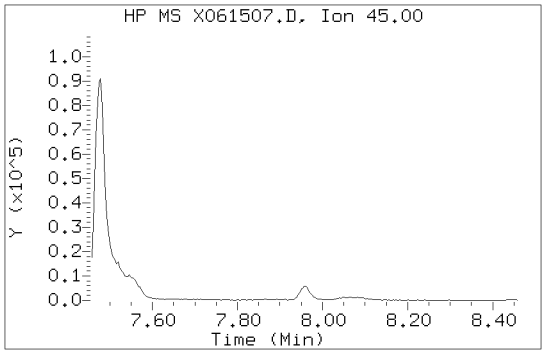
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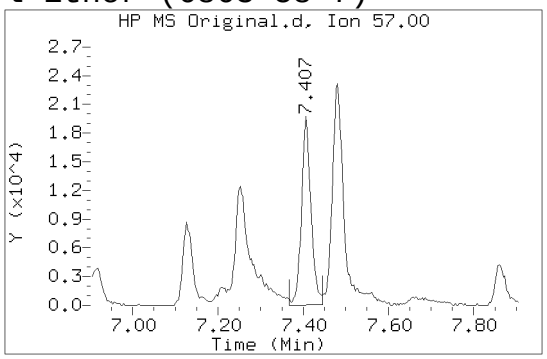


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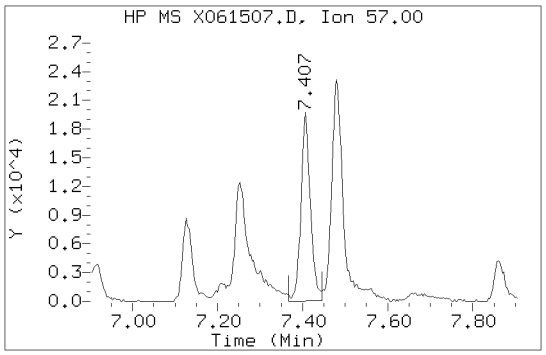
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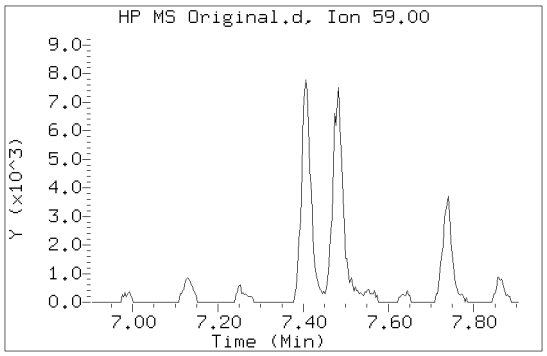
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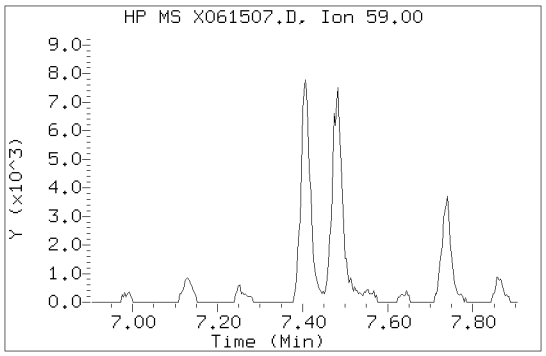
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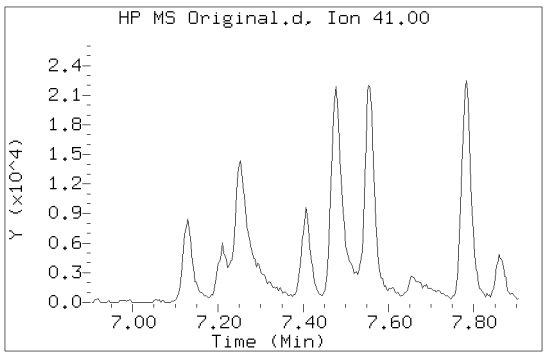
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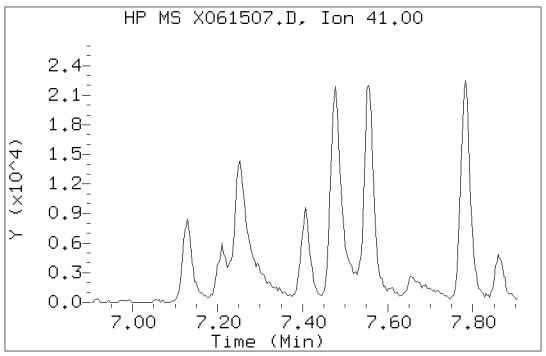
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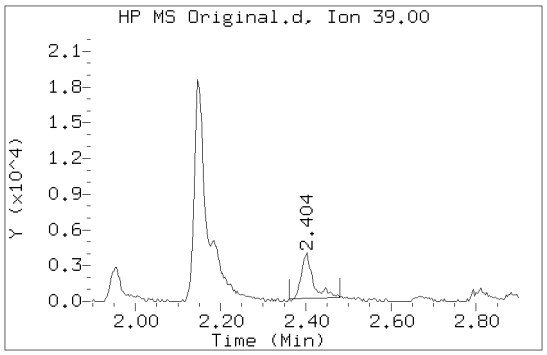
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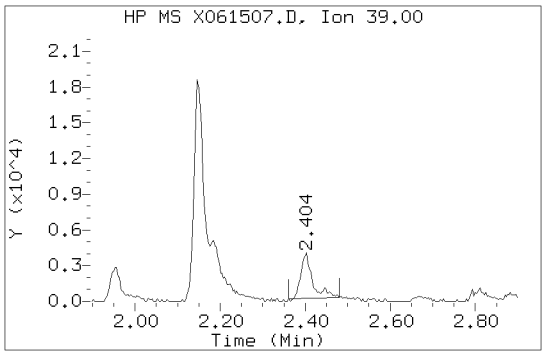
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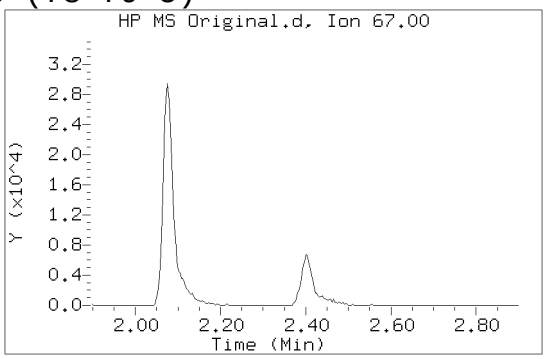
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Isoprene (78-79-5)

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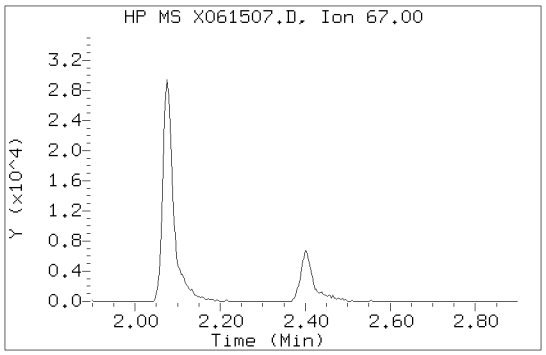
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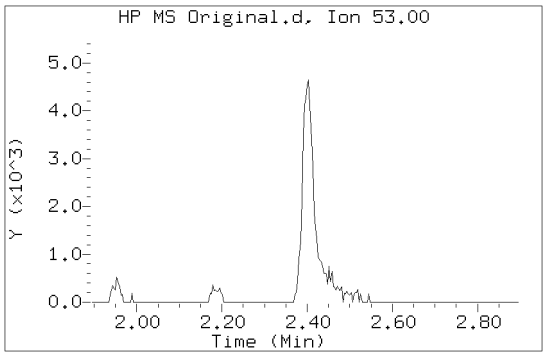
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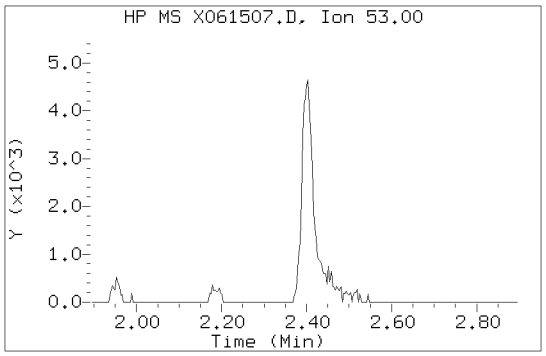
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Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061508.D Page 1
Report Date: 12-Jul-2024 11:38

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061508.D
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Als bottle: 8 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	5.130	5.130	(1.000)	128344	50.0000	
2	Dichlorodifluoromethane	85	1.294	1.294	(0.252)	67807	50.0000	49.82
159	Dichlorofluoromethane	67	2.072	2.072	(0.404)	127004	50.0000	47.51
3	Chloromethane	50	1.448	1.448	(0.282)	99995	50.0000	50.54
4	Propionitrile	54	4.667	4.667	(0.910)	88867	500.000	512.34
5	Vinyl Chloride	62	1.535	1.535	(0.299)	89994	50.0000	49.69
6	Bromomethane	94	1.805	1.805	(0.352)	49751	50.0000	50.94
7	Chloroethane	64	1.892	1.892	(0.369)	55213	50.0000	50.19
8	Trichlorofluoromethane	101	2.110	2.110	(0.411)	118069	50.0000	50.37
9	Acrolein	56	2.512	2.512	(0.490)	3825	100.000	105.77
10	Acetone	43	2.663	2.663	(0.519)	46665	100.000	104.73
11	1,1-Dichloroethene	96	2.589	2.589	(0.505)	66065	50.0000	50.02
12	Isobutyl Alcohol	43	5.573	5.573	(1.086)	215753	1000.00	1011.38
13	Acetonitrile	39	2.959	2.959	(0.577)	98067	500.000	493.21
14	Allyl Chloride	41	2.956	2.956	(0.576)	208497	50.0000	50.54
15	Iodomethane	142	2.741	2.741	(0.534)	160800	100.000	95.98
16	Acrylonitrile	53	3.380	3.380	(0.659)	46177	100.000	102.38
17	Methylene Chloride	84	3.094	3.094	(0.603)	78686	50.0000	51.96
18	Methyl tert-butyl ether	73	3.380	3.380	(0.659)	173468	50.0000	47.58
19	Carbon Disulfide	76	2.795	2.795	(0.545)	403665	100.000	99.59

20	trans-1,2-Dichloroethene	96	3.374	3.374 (0.658)	69367	50.0000	50.56
21	Vinyl Acetate	43	4.657	4.657 (0.908)	77286	100.000	106.74

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
22	1,1-Dichloroethane	63	3.863	3.863	(0.753)	143941	50.0000	47.70
23	Chloroprene	53	3.962	3.962	(0.772)	119116	50.0000	49.70
24	2-Butanone	43	4.593	4.593	(0.895)	61852	100.000	101.76
25	Methacrylonitrile	41	2.149	2.149	(0.419)	106233	50.0000	49.66
26	2,2-Dichloropropane	77	4.532	4.532	(0.883)	123565	50.0000	48.24
27	cis-1,2-Dichloroethene	96	4.544	4.544	(0.886)	78589	50.0000	51.30
28	Chloroform	83	4.904	4.904	(0.956)	140096	50.0000	51.29
29	Bromochloromethane	128	4.808	4.808	(0.937)	38434	50.0000	51.53
$ 30	Dibromofluoromethane	113	5.072	5.072	(0.989)	70864	50.0000	51.81
31	1,1,1-Trichloroethane	97	5.068	5.068	(0.988)	121911	50.0000	50.61
32	1,1-Dichloropropene	75	5.242	5.242	(0.896)	104921	50.0000	49.78
33	1,2-Dichloroethane	62	5.493	5.493	(0.938)	119958	50.0000	51.53
34	Carbon Tetrachloride	117	5.232	5.232	(0.894)	103211	50.0000	48.45
$ 35	1,2-Dichloroethane-d4	65	5.416	5.416	(1.056)	95083	50.0000	52.10
* 36	1,4-Difluorobenzene	114	5.853	5.853	(1.000)	214883	50.0000	
37	Benzene	78	5.458	5.458	(0.932)	286859	50.0000	50.07
38	Trichloroethene	130	6.088	6.088	(1.040)	74816	50.0000	50.55
39	Bromodichloromethane	83	6.573	6.573	(1.123)	109283	50.0000	45.68
40	Methyl Methacrylate	41	6.432	6.432	(1.254)	67573	50.0000	49.16
41	2-Chloroethylvinyl ether	63	6.853	6.853	(1.171)	60694	100.000	103.86(A)
42	1,2-Dichloropropane	63	6.310	6.310	(1.078)	83636	50.0000	50.73
43	2-Nitropropane	43	6.798	6.798	(1.325)	21914	50.0000	47.62
44	Dibromomethane	93	6.419	6.419	(1.097)	47163	50.0000	50.08
45	4-Methyl-2-Pentanone	43	7.126	7.126	(0.842)	154085	100.000	104.42
46	cis-1,3-Dichloropropene	75	6.975	6.975	(1.192)	114066	50.0000	48.43
* 47	Chlorobenzene-d5	117	8.467	8.467	(1.000)	197365	50.0000	
$ 48	Toluene-d8	98	7.207	7.207	(0.851)	255028	50.0000	53.54
49	Ethyl Methacrylate	69	8.043	8.043	(1.374)	92940	50.0000	49.07
50	Toluene	91	7.265	7.265	(0.858)	300469	50.0000	51.62
51	trans-1,3-Dichloropropene	75	6.975	6.975	(1.192)	114066	50.0000	48.43
52	2-Hexanone	43	7.863	7.863	(0.929)	107938	100.000	108.26
53	1,1,2-Trichloroethane	83	7.637	7.637	(0.902)	58061	50.0000	53.04
54	1,3-Dichloropropane	76	7.782	7.782	(0.919)	122388	50.0000	52.03
55	Dibromochloromethane	129	7.978	7.978	(0.942)	78493	50.0000	48.55
56	Tetrachloroethene	164	7.737	7.737	(0.914)	57283	50.0000	51.22
57	1,2-Dibromoethane	107	8.075	8.075	(0.954)	59797	50.0000	51.45
58	1-Chlorohexane	55	8.470	8.470	(1.447)	76561	50.0000	51.64
59	Chlorobenzene	112	8.490	8.490	(1.003)	196413	50.0000	51.52
60	1,1,1,2-Tetrachloroethane	131	8.564	8.564	(1.011)	68615	50.0000	50.11
61	Ethylbenzene	106	8.583	8.583	(1.014)	103348	50.0000	52.44
62	m,p-Xylenes	106	8.682	8.682	(1.025)	254041	100.000	102.95
63	o-Xylene	106	9.023	9.023	(1.066)	124111	50.0000	52.12
64	Styrene	104	9.036	9.036	(1.067)	218355	50.0000	51.87
66	Bromoform	173	9.207	9.207	(1.087)	49923	50.0000	48.97
67	Isopropylbenzene	105	9.338	9.338	(1.103)	317579	50.0000	51.41
68	1,1,2,2-Tetrachloroethane	83	9.608	9.608	(0.919)	89714	50.0000	52.57
$ 69	4-Bromofluorobenzene	95	9.477	9.477	(1.119)	101258	50.0000	53.15
* 70	1,4-Dichlorobenzene-d4	152	10.457	10.457	(1.000)	102193	50.0000	
71	1,2,3-Trichloropropane	75	9.647	9.647	(0.923)	100875	50.0000	52.05
72	trans-1,4-Dichloro-2-butene	53	9.653	9.653	(1.140)	21969	50.0000	51.08
73	n-Propylbenzene	91	9.689	9.689	(0.927)	388200	50.0000	50.89
74	Bromobenzene	156	9.602	9.602	(0.918)	85404	50.0000	51.48

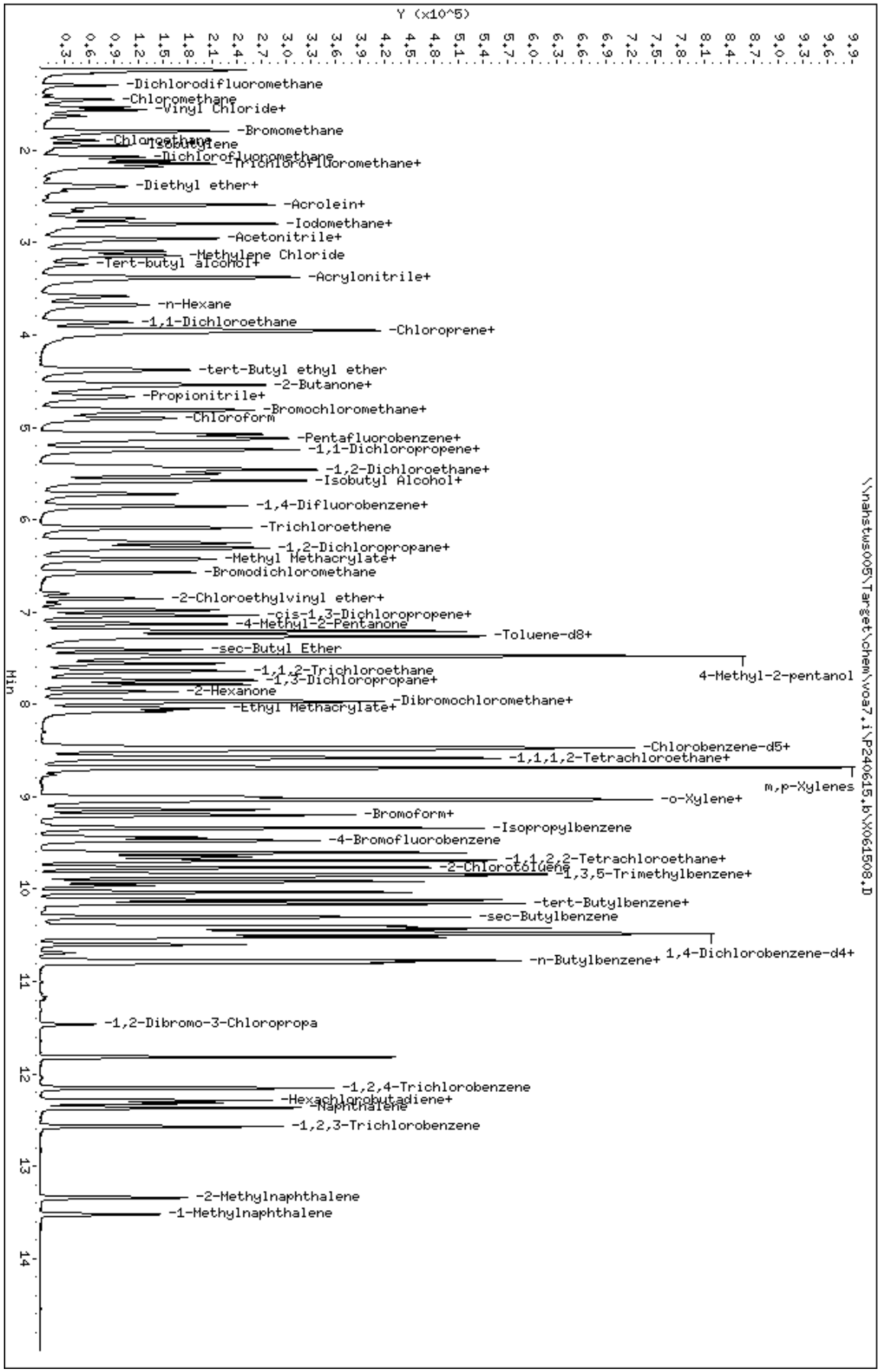
75	1,3,5-Trimethylbenzene	105	9.837	9.837 (0.941)	275793	50.0000	50.24
76	2-Chlorotoluene	91	9.766	9.766 (0.934)	238653	50.0000	51.55

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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
77	4-Chlorotoluene	91	9.859	9.859	(0.943)	282358	50.0000	51.52
78	tert-Butylbenzene	119	10.116	10.116	(0.967)	231832	50.0000	51.58
79	1,2,4-Trimethylbenzene	105	10.158	10.158	(0.971)	278876	50.0000	51.44
81	sec-Butylbenzene	105	10.303	10.303	(0.985)	317082	50.0000	50.90
82	p-Isopropyltoluene	119	10.425	10.425	(0.997)	285951	50.0000	50.95
83	1,3-Dichlorobenzene	146	10.403	10.403	(0.995)	156769	50.0000	51.30
84	1,4-Dichlorobenzene	146	10.480	10.480	(1.002)	162202	50.0000	52.08
87	n-Butylbenzene	91	10.772	10.772	(1.030)	271859	50.0000	51.77
88	1,2-Dichlorobenzene	146	10.798	10.798	(1.033)	152096	50.0000	51.81
89	1,2-Dibromo-3-Chloropropane	75	11.464	11.464	(1.096)	14588	50.0000	48.30
90	1,2,4-Trichlorobenzene	180	12.152	12.152	(1.162)	97036	50.0000	50.05
91	Hexachlorobutadiene	225	12.287	12.287	(1.175)	46780	50.0000	50.45
92	Naphthalene	128	12.367	12.367	(1.183)	209853	50.0000	47.87
93	1,2,3-Trichlorobenzene	182	12.570	12.570	(1.202)	76087	50.0000	47.68
135	1,4-Dioxane	88	6.448	6.448	(1.257)	10767	1000.00	1037.67(AM)
146	Methyl acetate	43	2.991	2.991	(0.583)	53208	50.0000	51.41
138	Freon TF	101	2.593	2.593	(0.505)	66163	50.0000	50.57
139	Diethyl ether	59	2.377	2.377	(0.463)	46950	50.0000	50.17
140	1,3-Butadiene	54	1.564	1.564	(0.305)	40631	50.0000	48.93
141	Cyclohexane	56	5.110	5.110	(0.996)	113099	50.0000	49.57
147	Methylcyclohexane	83	6.252	6.252	(1.068)	100708	50.0000	47.15
132	n-Butanol	56	6.252	6.252	(1.219)	40162	1000.00	982.74(T)
131	Methyl Acrylate	55	4.689	4.689	(0.914)	70420	50.0000	50.00
133	Ethyl Acrylate	55	6.223	6.223	(1.213)	179702	50.0000	49.76
136	n-Hexane	57	3.673	3.673	(0.716)	85930	50.0000	52.37
142	Tetrahydrofuran	42	4.856	4.856	(0.947)	22991	100.000	96.01
148	Tert-butyl alcohol	59	3.233	3.233	(0.630)	79724	1000.00	841.71
149	Isopropyl alcohol	45	2.811	2.811	(0.548)	67928	1000.00	1048.99
151	4-Methyl-2-pentanol	45	7.474	7.474	(0.883)	510749	1000.00	986.82
166	1,2,3-Trimethylbenzene	105	10.518	10.518	(1.006)	238794	50.0000	45.36
167	Ethanol	45	2.307	2.307	(0.450)	10513	1000.00	997.08
172	tert-Butyl formate	59	3.233	3.233	(0.630)	79724	100.000	100.39
173	3,3-Dimethyl-1-butanol	57	8.039	8.039	(0.949)	129798	1000.00	1004.91
174	tert-Amyl methyl ether	73	5.580	5.580	(1.088)	189636	50.0000	48.38
175	tert-Butyl ethyl ether	59	4.377	4.377	(0.853)	208325	50.0000	47.60
157	2-Methylnaphthalene	142	13.341	13.341	(1.276)	84396	50.0000	52.89
156	Diisopropyl ether	45	3.946	3.946	(0.769)	246963	50.0000	48.45
171	1-Methylnaphthalene	142	13.522	13.522	(1.293)	68471	50.0000	48.53
130	Ethyl Acetate	43	3.946	3.946	(0.769)	443002	50.0000	49.55
176	tert-Amyl alcohol	59	5.509	5.509	(1.074)	79111	1000.00	1043.83(A)
160	Epichlorohydrin	57	6.911	6.911	(1.181)	18432	200.000	197.76
161	Butyl acrylate	55	8.998	8.998	(1.063)	163025	50.0000	48.64
182	Isobutylene	56	1.946	1.946	(0.380)	10572	50.0000	49.68(AM)
183	Isopropyl Acetate	43	5.573	5.573	(0.952)	215753	50.0000	50.01(A)
184	n-Amyl acetate	43	9.194	9.194	(1.086)	158246	50.0000	48.84(A)
185	Acetaldehyde	44	1.628	1.628	(0.317)	41280	200.000	199.41(AM)
186	n-Butyl acetate	43	7.969	7.969	(0.941)	122473	50.0000	52.38(AM)
187	2-Etyhlhexyl Acrylate	55	12.319	12.319	(1.178)	65136	50.0000	50.22(AM)
188	Tetrahydrothiophene	60	7.959	7.959	(0.940)	78695	50.0000	50.46(AM)
189	sec-Butyl Ether	57	7.406	7.406	(0.875)	70483	50.0000	53.74(AM)
190	Isoprene	39	2.400	2.400	(0.468)	18184	50.0000	46.13(AM)
191	2-Chloropropene	41	2.149	2.149	(0.419)	106233	50.0000	48.11(A)

QC Flag Legend

T - Target compound detected outside RT window.
A - Target compound detected but, quantitated amount
    exceeded maximum amount.
M - Compound response manually integrated.



Data File: \\nahstws005\Target\chem\voa7.i\P240615.b\X061508.D
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Client ID: VSTD050
Sample Info: VSTD050;VSTD050;1;7
Purge Volume: 5.0
Column phase: DB624

Instrument: voa7.i
Operator: AP
Column diameter: 0.18

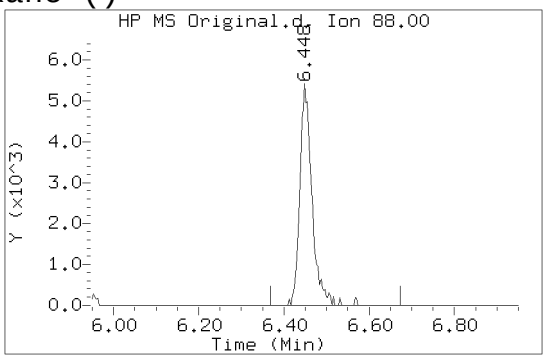
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Inj Date : 15-JUN-2024 16:18
InstruID : voa7.i
LabSampID : VSTD050

1,4-Dioxane ()

Reason Code:

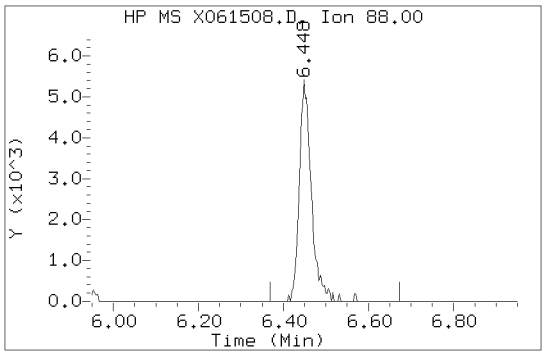
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HEIGHT
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12-Jul-2024
11:38
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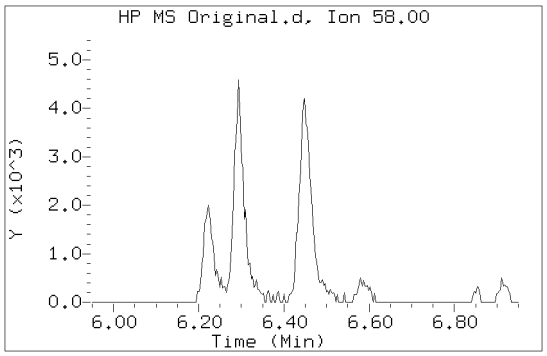
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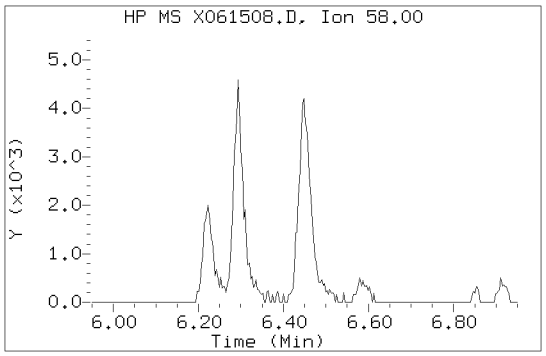
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AFTER

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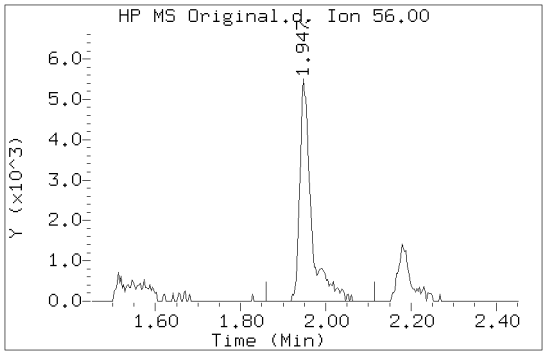


Isobutylene (115-11-7)

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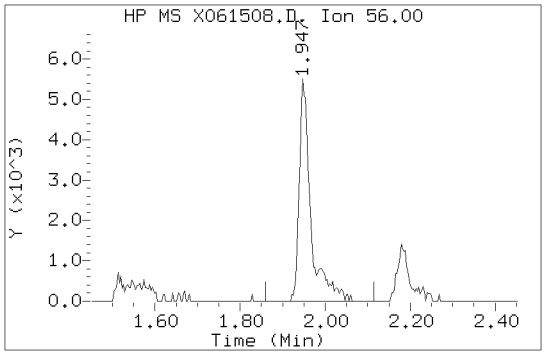
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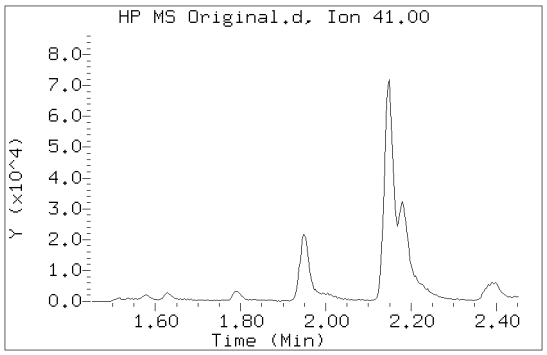
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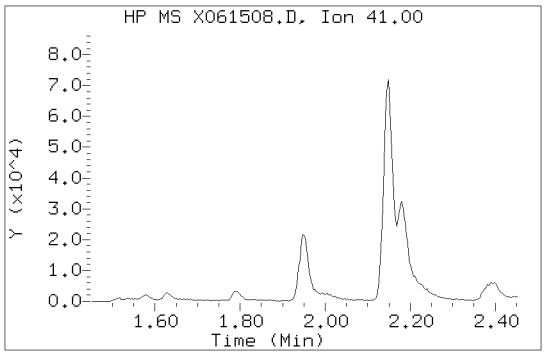
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AFTER

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11:38
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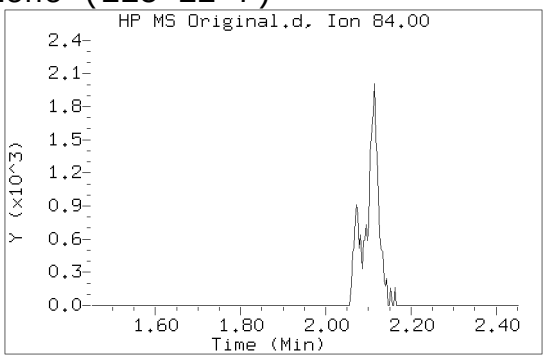
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InstruID : voa7.i
LabSampID : VSTD050

Isobutylene (115-11-7)

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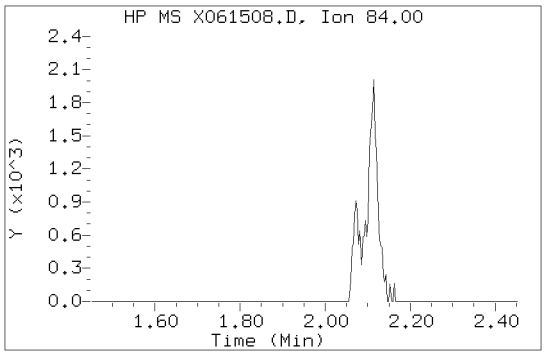
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AFTER

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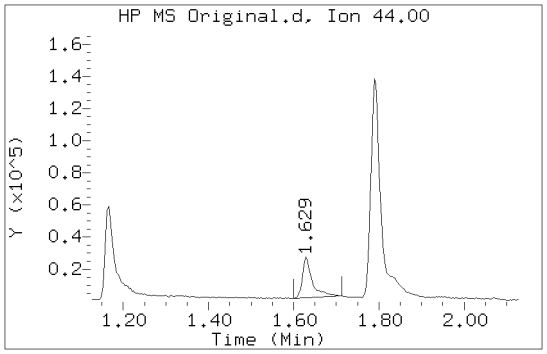


Acetaldehyde (75-07-0)

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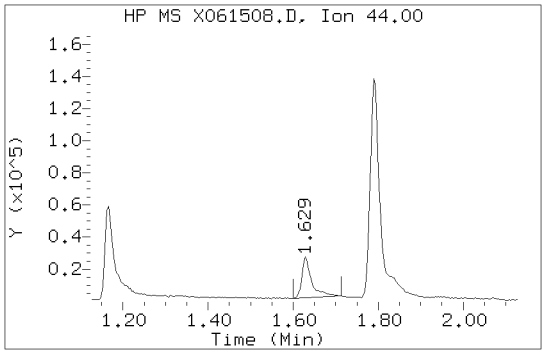
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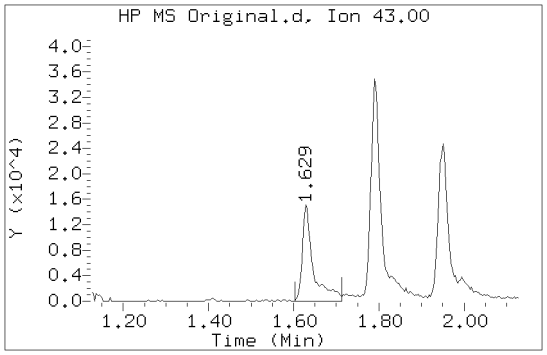
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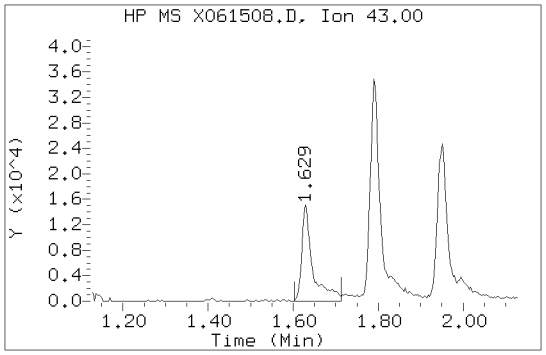
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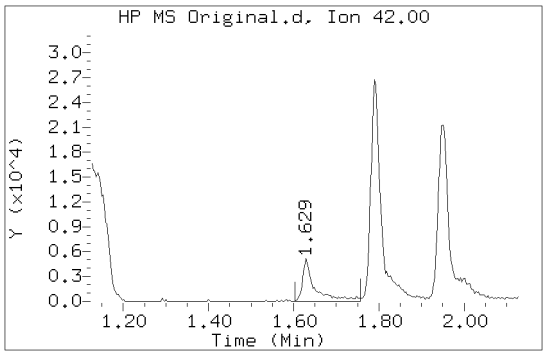
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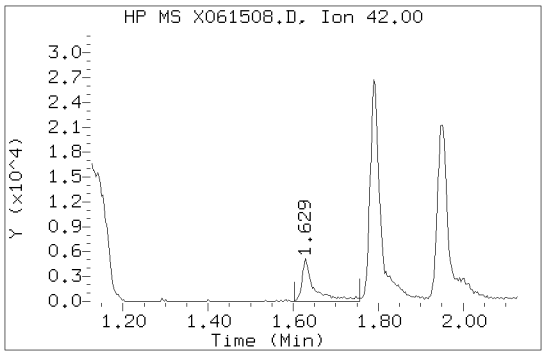
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AFTER

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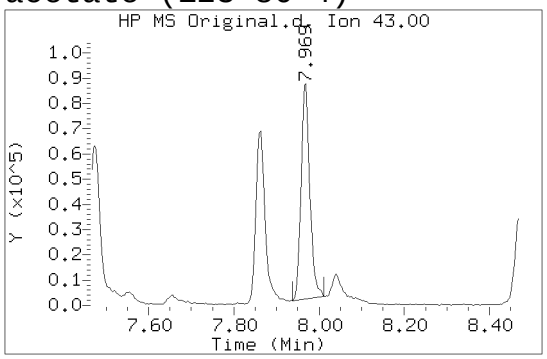
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Inj Date : 15-JUN-2024 16:18
InstruID : voa7.i
LabSampID : VSTD050

n-Butyl acetate (123-86-4)

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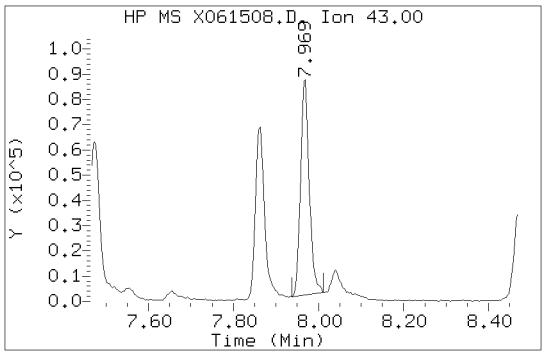
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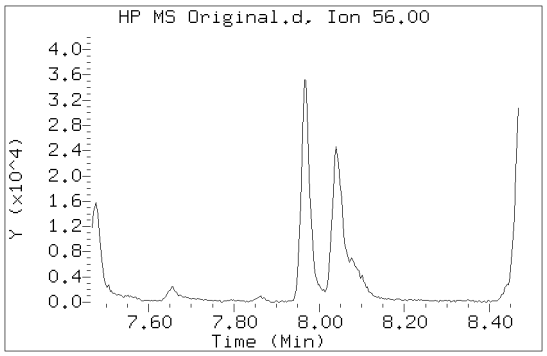
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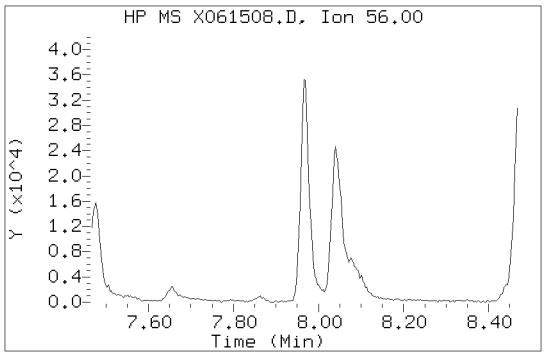
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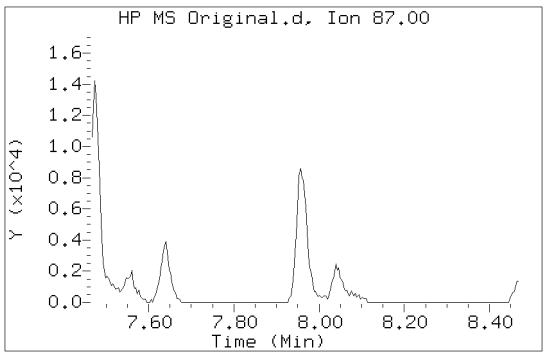
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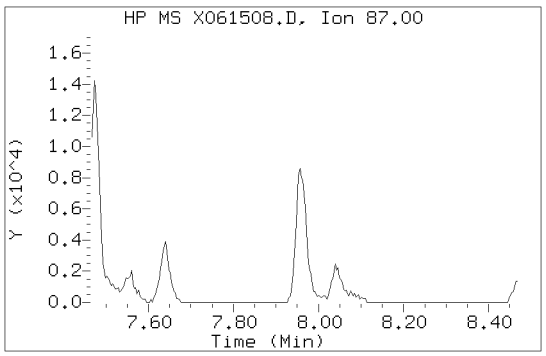
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AFTER

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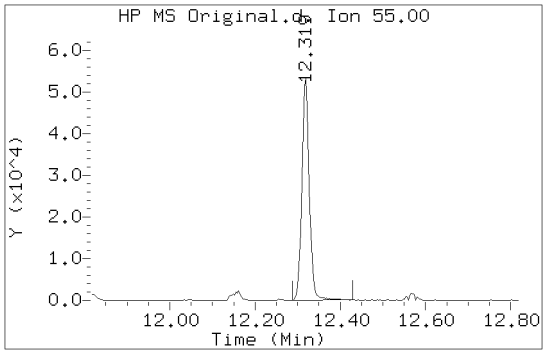


2-Etyhlhexyl Acrylate (103-11-7)

Reason Code:

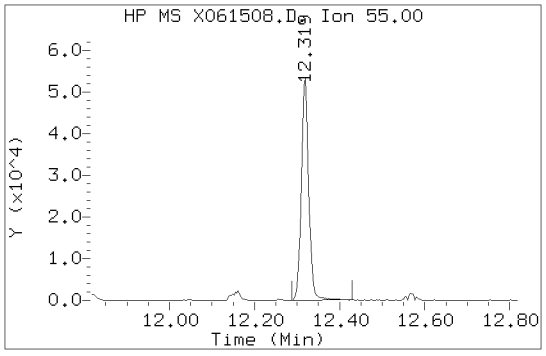
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AFTER

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12-Jul-2024
11:38
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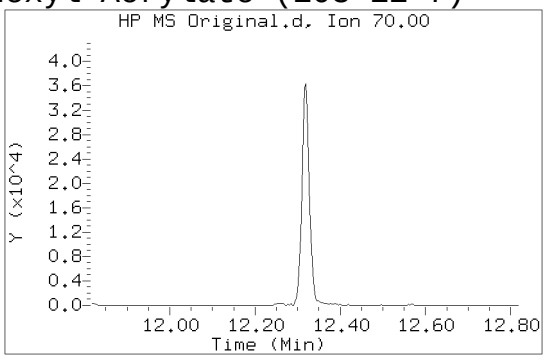
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Inj Date : 15-JUN-2024 16:18
InstruID : voa7.i
LabSampID : VSTD050

2-Etyhlhexyl Acrylate (103-11-7)

Reason Code:

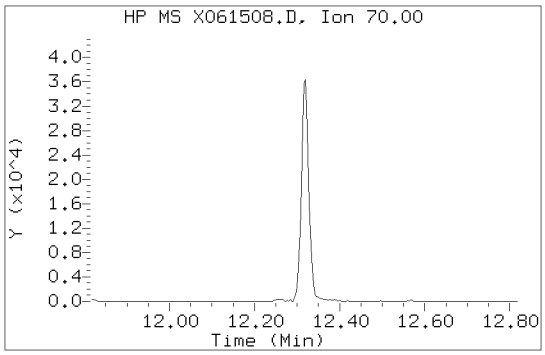
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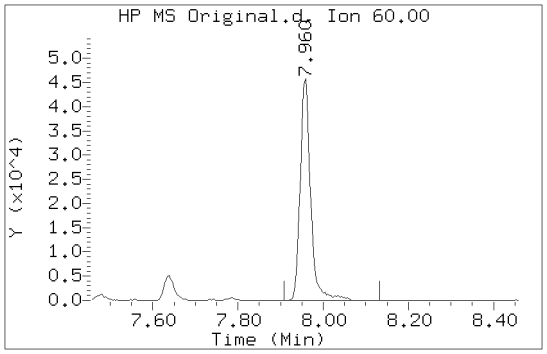


Tetrahydrothiophene (110-01-0)

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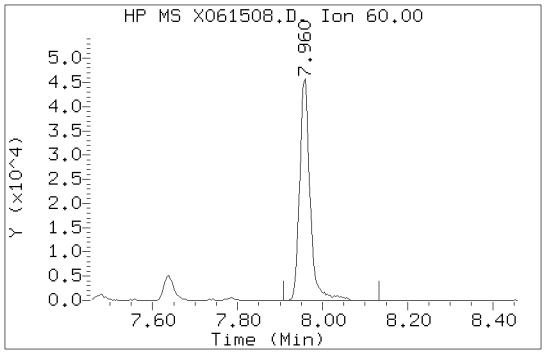
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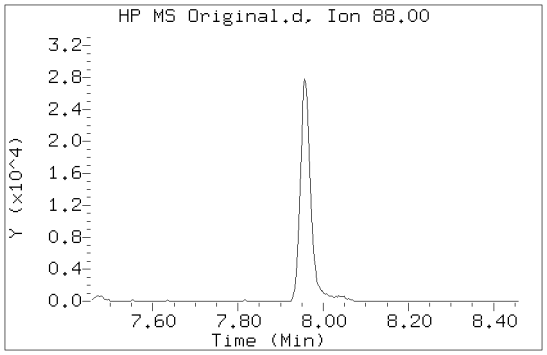
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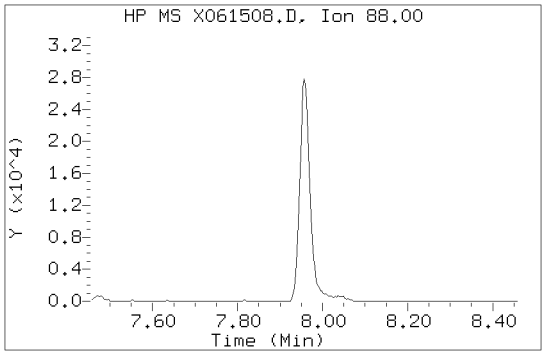
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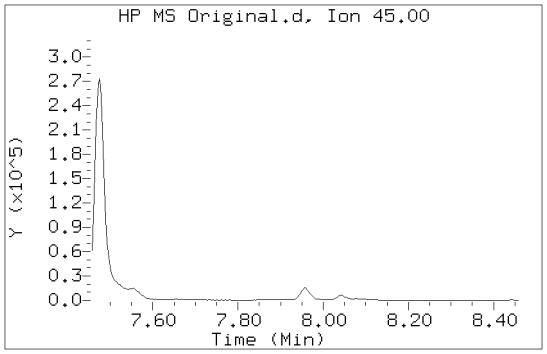
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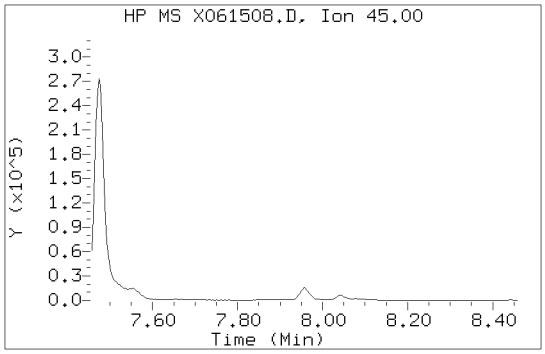
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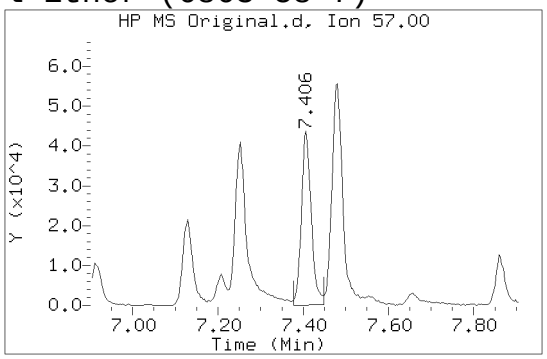
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Inj Date : 15-JUN-2024 16:18
InstruID : voa7.i
LabSampID : VSTD050

sec-Butyl Ether (6863-58-7)

Reason Code:

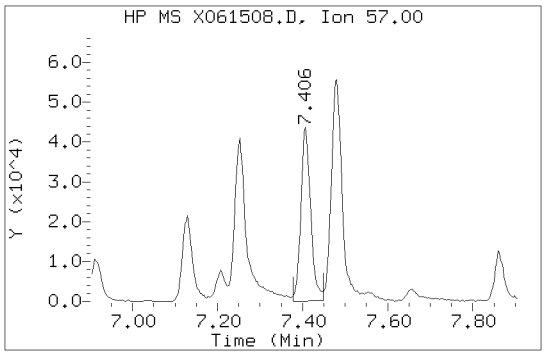
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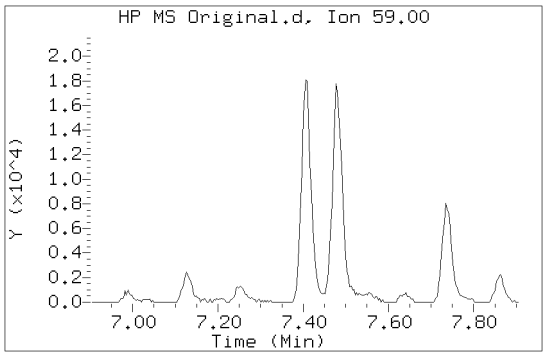
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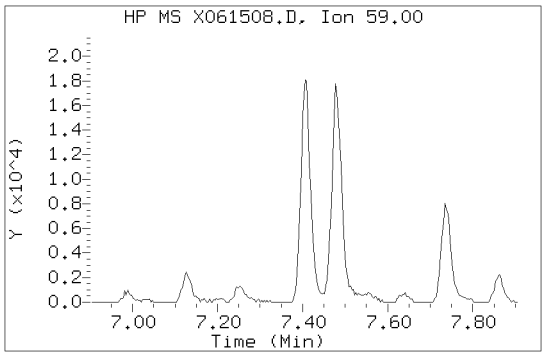
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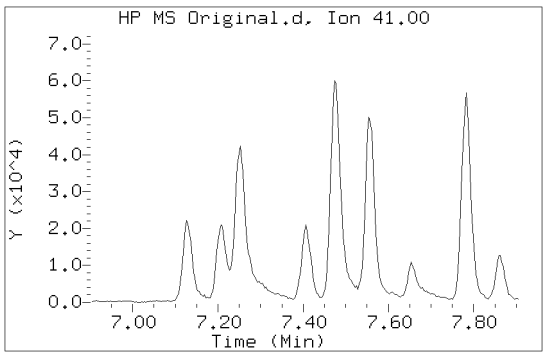
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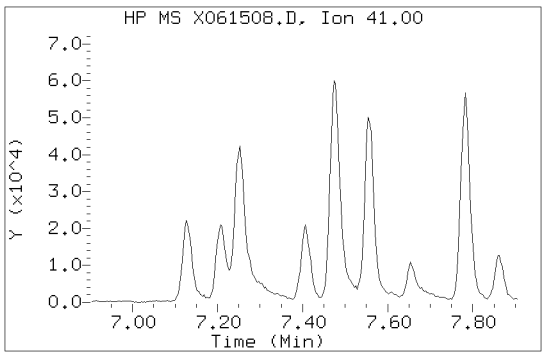
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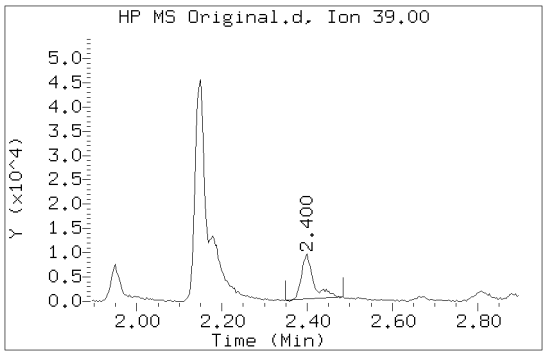


Isoprene (78-79-5)

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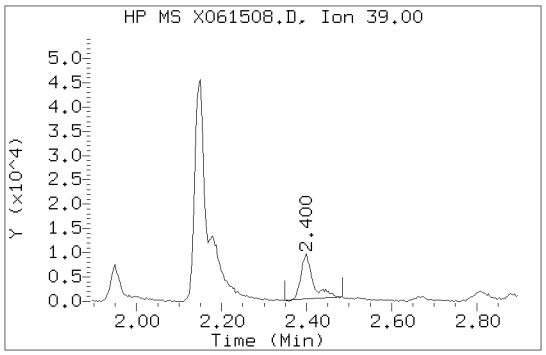
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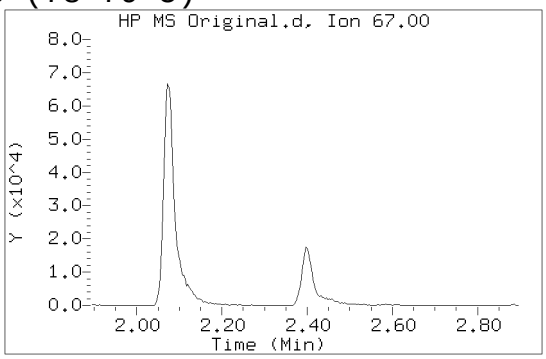
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Isoprene (78-79-5)

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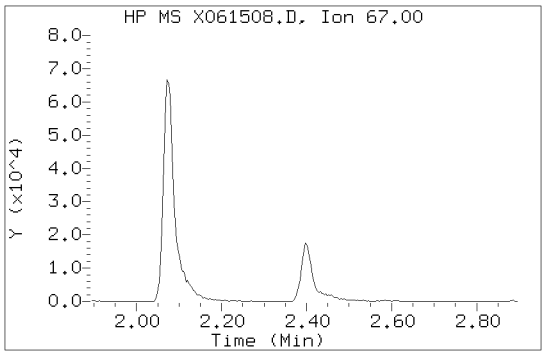
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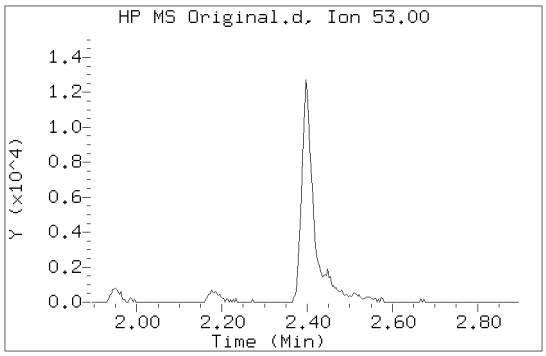
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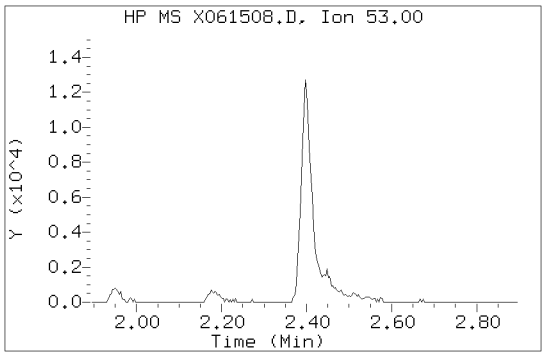
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Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061509.D Page 1
Report Date: 12-Jul-2024 11:46

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061509.D
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Inj Date : 15-JUN-2024 16:41
Operator : AP Inst ID: voa7.i
Smp Info : VSTD100;VSTD100;1;8
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Als bottle: 9 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	5.130	5.130	(1.000)	131611	50.0000	
2 Dichlorodifluoromethane	85	1.294	1.294	(0.252)	134254	100.000	96.54
159 Dichlorofluoromethane	67	2.075	2.075	(0.405)	260861	100.000	95.18
3 Chloromethane	50	1.448	1.448	(0.282)	196571	100.000	97.80
4 Propionitrile	54	4.670	4.670	(0.910)	178969	1000.00	1015.65
5 Vinyl Chloride	62	1.535	1.535	(0.299)	178644	100.000	96.31
6 Bromomethane	94	1.805	1.805	(0.352)	98215	100.000	99.36
7 Chloroethane	64	1.895	1.895	(0.369)	108971	100.000	96.98
8 Trichlorofluoromethane	101	2.114	2.114	(0.412)	232452	100.000	97.05
9 Acrolein	56	2.512	2.512	(0.490)	8475	200.000	228.55
10 Acetone	43	2.663	2.663	(0.519)	87964	200.000	197.53
11 1,1-Dichloroethene	96	2.593	2.593	(0.505)	130927	100.000	96.53
12 Isobutyl Alcohol	43	5.573	5.573	(1.086)	430883	2000.00	1987.35
13 Acetonitrile	39	2.959	2.959	(0.577)	201548	1000.00	994.85
14 Allyl Chloride	41	2.959	2.959	(0.577)	421791	100.000	100.64
15 Iodomethane	142	2.741	2.741	(0.534)	331334	200.000	188.98
16 Acrylonitrile	53	3.377	3.377	(0.658)	92283	200.000	200.41
17 Methylene Chloride	84	3.094	3.094	(0.603)	150347	100.000	98.38
18 Methyl tert-butyl ether	73	3.377	3.377	(0.658)	369312	100.000	98.47
19 Carbon Disulfide	76	2.795	2.795	(0.545)	802720	200.000	193.67

20	trans-1,2-Dichloroethene	96	3.377	3.377 (0.658)	136803	100.000	97.50
21	Vinyl Acetate	43	4.657	4.657 (0.908)	142907	200.000	195.18

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
22	1,1-Dichloroethane	63	3.863	3.863	(0.753)	281778	100.000	91.07
23	Chloroprene	53	3.966	3.966	(0.773)	237619	100.000	96.71
24	2-Butanone	43	4.586	4.586	(0.894)	120765	200.000	197.63
25	Methacrylonitrile	41	2.149	2.149	(0.419)	251731	100.000	114.76
26	2,2-Dichloropropane	77	4.535	4.535	(0.884)	246113	100.000	93.70
27	cis-1,2-Dichloroethene	96	4.544	4.544	(0.886)	153510	100.000	98.20
28	Chloroform	83	4.901	4.901	(0.956)	275001	100.000	98.91
29	Bromochloromethane	128	4.808	4.808	(0.937)	74665	100.000	98.00
$ 30	Dibromofluoromethane	113	5.072	5.072	(0.989)	136360	100.000	98.62
31	1,1,1-Trichloroethane	97	5.072	5.072	(0.989)	240720	100.000	97.46
32	1,1-Dichloropropene	75	5.245	5.245	(0.896)	204839	100.000	94.80
33	1,2-Dichloroethane	62	5.490	5.490	(0.938)	232210	100.000	97.82
34	Carbon Tetrachloride	117	5.236	5.236	(0.895)	207646	100.000	94.30
$ 35	1,2-Dichloroethane-d4	65	5.416	5.416	(1.056)	181002	100.000	98.58
* 36	1,4-Difluorobenzene	114	5.853	5.853	(1.000)	220034	50.0000	
37	Benzene	78	5.457	5.457	(0.932)	566674	100.000	97.04
38	Trichloroethene	130	6.088	6.088	(1.040)	144899	100.000	95.74
39	Bromodichloromethane	83	6.570	6.570	(1.122)	216386	100.000	88.33
40	Methyl Methacrylate	41	6.432	6.432	(1.254)	141838	100.000	102.49
41	2-Chloroethylvinyl ether	63	6.856	6.856	(1.171)	122206	200.000	197.19(A)
42	1,2-Dichloropropane	63	6.310	6.310	(1.078)	162499	100.000	96.65
43	2-Nitropropane	43	6.798	6.798	(1.325)	45563	100.000	96.21
44	Dibromomethane	93	6.419	6.419	(1.097)	93384	100.000	96.89
45	4-Methyl-2-Pentanone	43	7.126	7.126	(0.842)	294844	200.000	193.24
46	cis-1,3-Dichloropropene	75	6.978	6.978	(1.192)	231041	100.000	95.38
* 47	Chlorobenzene-d5	117	8.467	8.467	(1.000)	205716	50.0000	
$ 48	Toluene-d8	98	7.207	7.207	(0.851)	478121	100.000	97.29
49	Ethyl Methacrylate	69	8.039	8.039	(1.374)	206010	100.000	100.81
50	Toluene	91	7.265	7.265	(0.858)	584385	100.000	96.86
51	trans-1,3-Dichloropropene	75	6.978	6.978	(1.192)	231041	100.000	95.38
52	2-Hexanone	43	7.863	7.863	(0.929)	205316	200.000	200.04
53	1,1,2-Trichloroethane	83	7.641	7.641	(0.902)	111437	100.000	98.40
54	1,3-Dichloropropane	76	7.782	7.782	(0.919)	237393	100.000	97.48
55	Dibromochloromethane	129	7.975	7.975	(0.942)	155630	100.000	92.36
56	Tetrachloroethene	164	7.737	7.737	(0.914)	110367	100.000	94.75
57	1,2-Dibromoethane	107	8.075	8.075	(0.954)	116739	100.000	97.17
58	1-Chlorohexane	55	8.470	8.470	(1.447)	141700	100.000	95.23
59	Chlorobenzene	112	8.493	8.493	(1.003)	383778	100.000	97.17
60	1,1,1,2-Tetrachloroethane	131	8.563	8.563	(1.011)	135220	100.000	94.33
61	Ethylbenzene	106	8.583	8.583	(1.014)	195525	100.000	95.61
62	m,p-Xylenes	106	8.686	8.686	(1.026)	496095	200.000	193.85
63	o-Xylene	106	9.023	9.023	(1.066)	238580	100.000	96.75
64	Styrene	104	9.039	9.039	(1.068)	421929	100.000	96.69
66	Bromoform	173	9.207	9.207	(1.087)	98086	100.000	92.32
67	Isopropylbenzene	105	9.338	9.338	(1.103)	614244	100.000	95.68
68	1,1,2,2-Tetrachloroethane	83	9.608	9.608	(0.919)	173120	100.000	95.19
$ 69	4-Bromofluorobenzene	95	9.477	9.477	(1.119)	190458	100.000	97.78
* 70	1,4-Dichlorobenzene-d4	152	10.457	10.457	(1.000)	109611	50.0000	
71	1,2,3-Trichloropropane	75	9.650	9.650	(0.923)	194918	100.000	94.26
72	trans-1,4-Dichloro-2-butene	53	9.660	9.660	(1.141)	42273	100.000	94.15
73	n-Propylbenzene	91	9.692	9.692	(0.927)	759621	100.000	92.84
74	Bromobenzene	156	9.605	9.605	(0.919)	165119	100.000	92.96

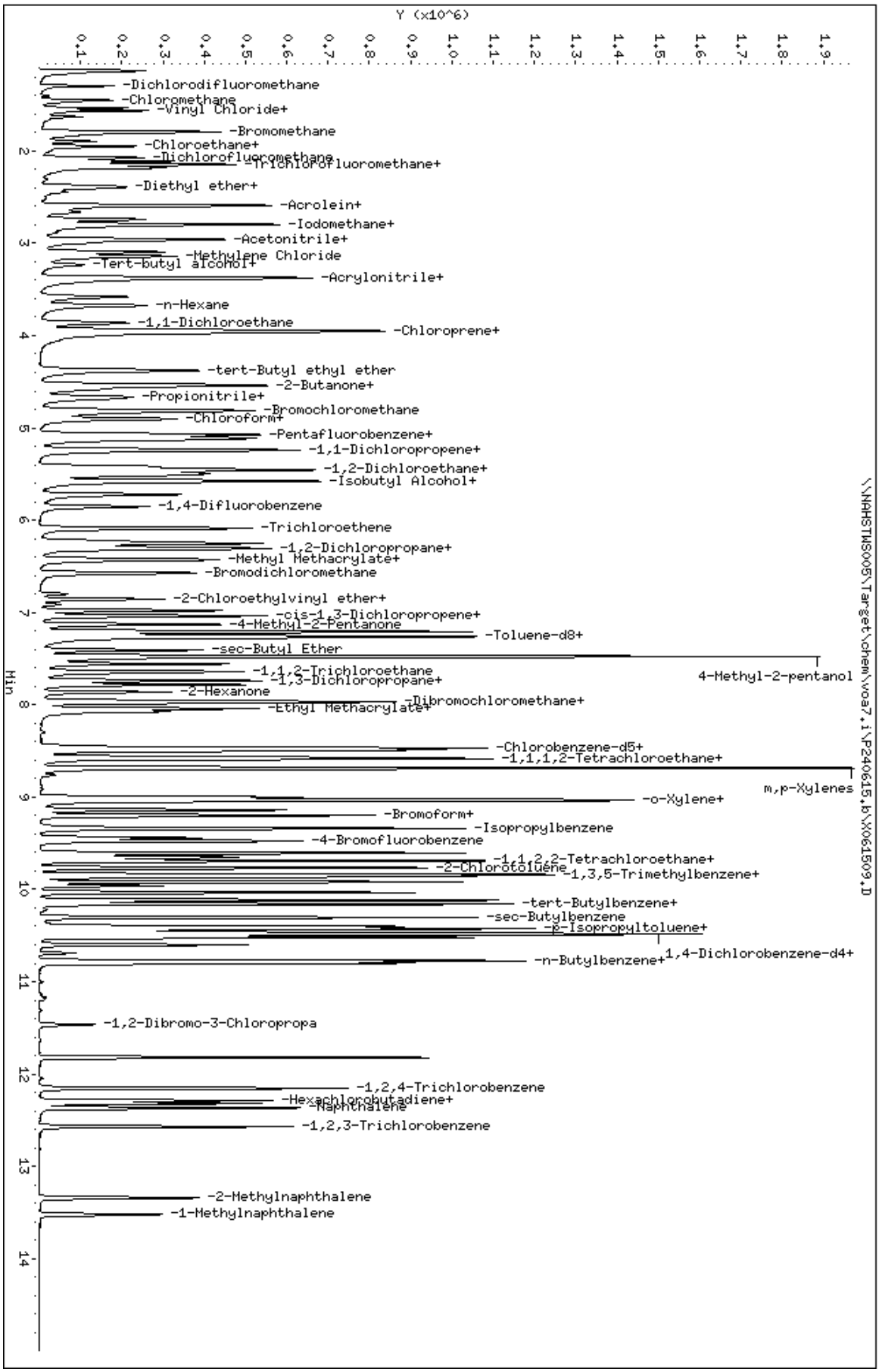
75	1,3,5-Trimethylbenzene	105	9.840	9.840 (0.941)	543342	100.000	92.11
76	2-Chlorotoluene	91	9.766	9.766 (0.934)	465237	100.000	94.08

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061509.D Page 3
Report Date: 12-Jul-2024 11:46

						AMOUNTS	
		QUANT SIG				CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT RESPONSE	(ug/l)	(ug/l)
77	4-Chlorotoluene	91	9.859	9.859	(0.943) 546420	100.000	93.18
78	tert-Butylbenzene	119	10.116	10.116	(0.967) 452739	100.000	94.12
79	1,2,4-Trimethylbenzene	105	10.158	10.158	(0.971) 540224	100.000	93.02
81	sec-Butylbenzene	105	10.303	10.303	(0.985) 620159	100.000	92.66
82	p-Isopropyltoluene	119	10.428	10.428	(0.997) 560605	100.000	92.98
83	1,3-Dichlorobenzene	146	10.403	10.403	(0.995) 306521	100.000	93.62
84	1,4-Dichlorobenzene	146	10.480	10.480	(1.002) 313580	100.000	94.23
87	n-Butylbenzene	91	10.776	10.776	(1.030) 528102	100.000	93.78
88	1,2-Dichlorobenzene	146	10.798	10.798	(1.033) 298497	100.000	94.98
89	1,2-Dibromo-3-Chloropropane	75	11.464	11.464	(1.096) 30508	100.000	94.18
90	1,2,4-Trichlorobenzene	180	12.155	12.155	(1.162) 198441	100.000	94.70
91	Hexachlorobutadiene	225	12.287	12.287	(1.175) 94036	100.000	93.93
92	Naphthalene	128	12.370	12.370	(1.183) 427265	100.000	90.86
93	1,2,3-Trichlorobenzene	182	12.570	12.570	(1.202) 157123	100.000	91.80
135	1,4-Dioxane	88	6.445	6.445	(1.256) 21568	2000.00	2041.05(AM)
146	Methyl acetate	43	2.991	2.991	(0.583) 102095	100.000	97.01
138	Freon TF	101	2.589	2.589	(0.505) 128005	100.000	95.15
139	Diethyl ether	59	2.380	2.380	(0.464) 98676	100.000	102.84
140	1,3-Butadiene	54	1.564	1.564	(0.305) 81637	100.000	95.16
141	Cyclohexane	56	5.113	5.113	(0.997) 222012	100.000	95.50
147	Methylcyclohexane	83	6.252	6.252	(1.068) 215181	100.000	96.20
132	n-Butanol	56	6.248	6.248	(1.218) 87107	2000.00	2078.54(T)
131	Methyl Acrylate	55	4.689	4.689	(0.914) 144382	100.000	101.26
133	Ethyl Acrylate	55	6.223	6.223	(1.213) 370352	100.000	100.00
136	n-Hexane	57	3.676	3.676	(0.717) 156768	100.000	92.61
142	Tetrahydrofuran	42	4.859	4.859	(0.947) 45899	200.000	185.53
148	Tert-butyl alcohol	59	3.236	3.236	(0.631) 156003	2000.00	1606.17
149	Isopropyl alcohol	45	2.815	2.815	(0.549) 129745	2000.00	1980.18
151	4-Methyl-2-pentanol	45	7.477	7.477	(0.883) 1084199	2000.00	2016.33
166	1,2,3-Trimethylbenzene	105	10.518	10.518	(1.006) 490212	100.000	86.83
167	Ethanol	45	2.316	2.316	(0.452) 20203	2000.00	1996.61
172	tert-Butyl formate	59	3.236	3.236	(0.631) 156003	200.000	193.82
173	3,3-Dimethyl-1-butanol	57	8.039	8.039	(0.949) 282604	2000.00	2002.45
174	tert-Amyl methyl ether	73	5.580	5.580	(1.088) 398312	100.000	99.29
175	tert-Butyl ethyl ether	59	4.377	4.377	(0.853) 438475	100.000	97.70
157	2-Methylnaphthalene	142	13.338	13.338	(1.275) 183751	100.000	107.37
156	Diisopropyl ether	45	3.946	3.946	(0.769) 510091	100.000	97.60
171	1-Methylnaphthalene	142	13.521	13.521	(1.293) 145120	100.000	95.91
130	Ethyl Acetate	43	3.946	3.946	(0.769) 897857	100.000	97.80
176	tert-Amyl alcohol	59	5.515	5.515	(1.075) 151183	2000.00	1966.71(A)
160	Epichlorohydrin	57	6.914	6.914	(1.181) 37467	400.000	391.27
161	Butyl acrylate	55	8.998	8.998	(1.063) 352204	100.000	100.56(A)
182	Isobutylene	56	1.950	1.950	(0.380) 22250	100.000	100.76(AM)
183	Isopropyl Acetate	43	5.573	5.573	(0.952) 430883	100.000	98.11(A)
184	n-Amyl acetate	43	9.194	9.194	(1.086) 329197	100.000	96.94(A)
185	Acetaldehyde	44	1.628	1.628	(0.317) 82329	400.000	391.89(AM)
186	n-Butyl acetate	43	7.969	7.969	(0.941) 239739	100.000	99.15(AM)
187	2-Etyhlhexyl Acrylate	55	12.319	12.319	(1.178) 157065	100.000	100.85(AM)
188	Tetrahydrothiophene	60	7.959	7.959	(0.940) 161935	100.000	99.79(AM)
189	sec-Butyl Ether	57	7.406	7.406	(0.875) 137710	100.000	102.92(AM)
190	Isoprene	39	2.397	2.397	(0.467) 39454	100.000	97.20(AM)
191	2-Chloropropene	41	2.149	2.149	(0.419) 251731	100.000	111.18(A)

QC Flag Legend

T - Target compound detected outside RT window.
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.



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Client ID: VSTD100
Sample Info: VSTD100;VSTD100;1;8
Purge Volume: 5.0
Column phase: DB624

Instrument: voa7,i
Operator: AP
Column diameter: 0.18

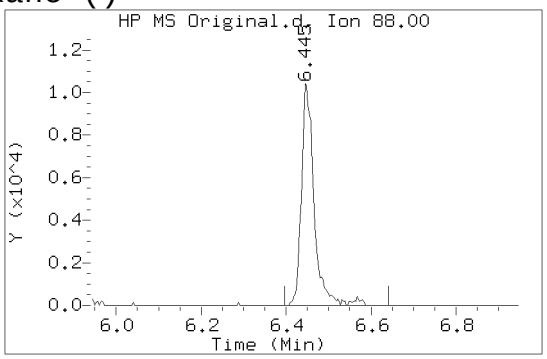
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InstruID : voa7.i
LabSampID : VSTD100

1,4-Dioxane ()

Reason Code:

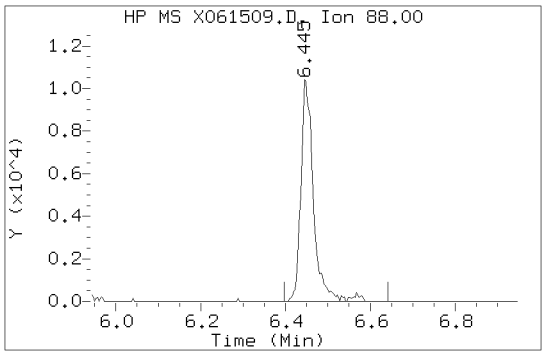
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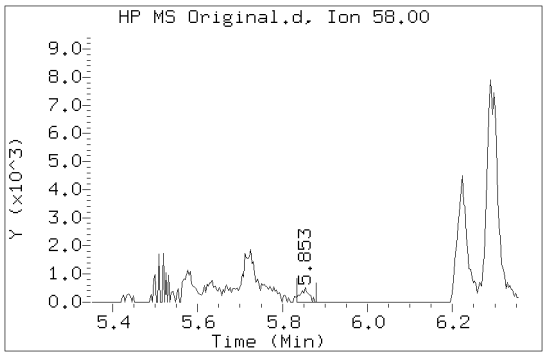
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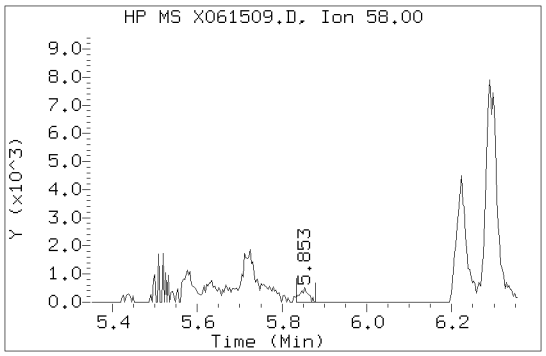
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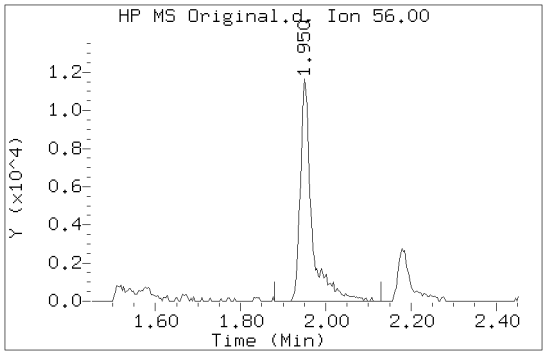


Isobutylene (115-11-7)

Reason Code:

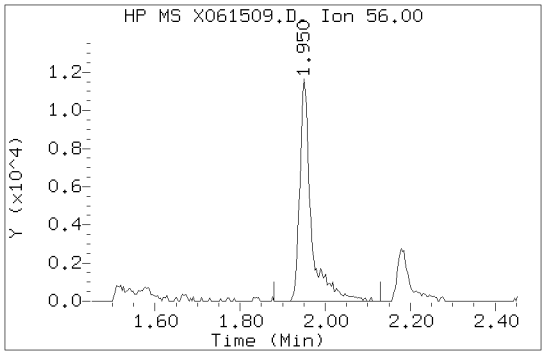
BEFORE

MASS
56
AREA
22250
HEIGHT
11650
12-Jul-2024
11:46
s
zaid



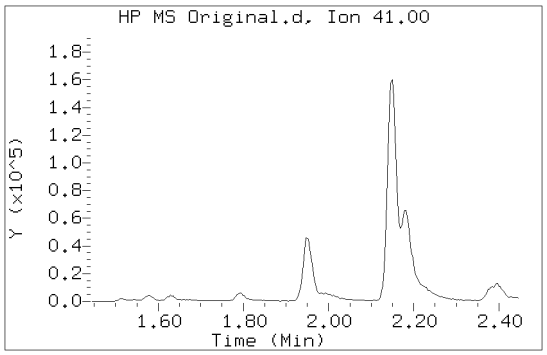
AFTER

MASS
56
AREA
22250
HEIGHT
11650
12-Jul-2024
11:46
s
zaid



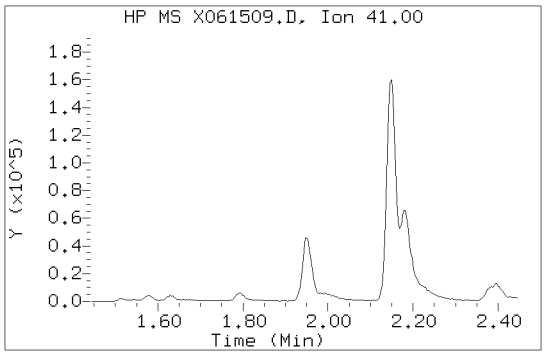
BEFORE

MASS
41
AREA
0
HEIGHT
0
12-Jul-2024
11:46
s
zaid



AFTER

MASS
41
AREA
0
HEIGHT
0
12-Jul-2024
11:46
s
zaid



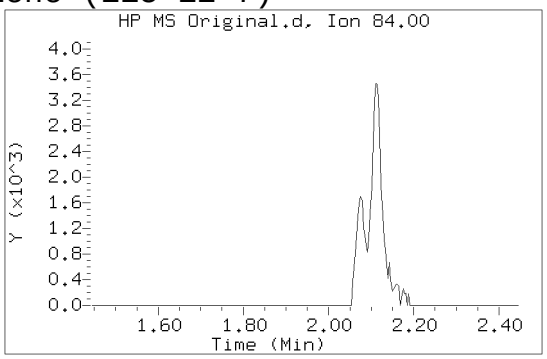
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Inj Date : 15-JUN-2024 16:41
InstruID : voa7.i
LabSampID : VSTD100

Isobutylene (115-11-7)

Reason Code:

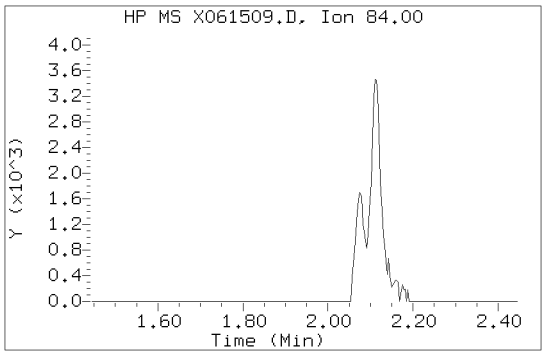
BEFORE

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12-Jul-2024
11:46
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zaid



AFTER

MASS
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AREA
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HEIGHT
0
12-Jul-2024
11:46
s
zaid

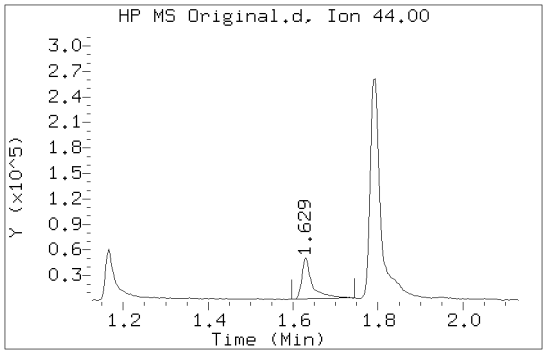


Acetaldehyde (75-07-0)

Reason Code:

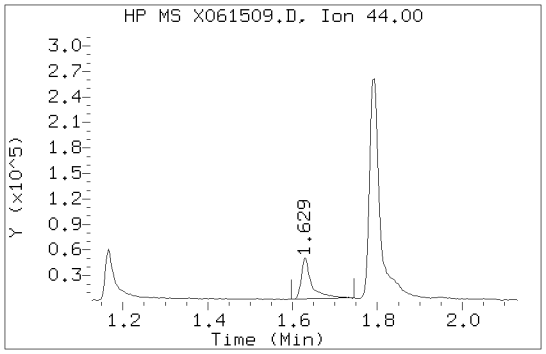
BEFORE

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44
AREA
82329
HEIGHT
48198
12-Jul-2024
11:46
s
zaid



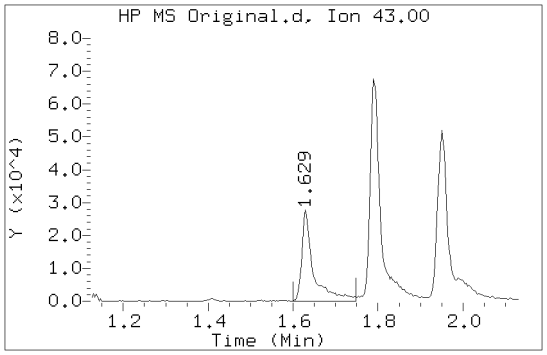
AFTER

MASS
44
AREA
82329
HEIGHT
48198
12-Jul-2024
11:46
s
zaid



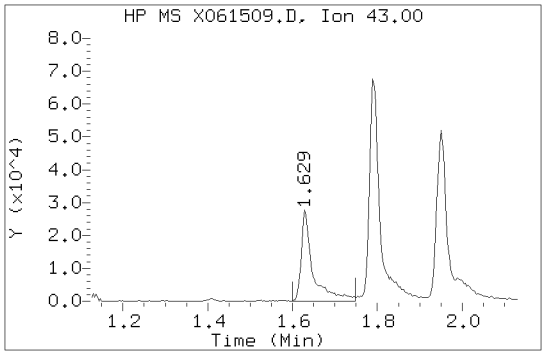
BEFORE

MASS
43
AREA
53594
HEIGHT
27720
12-Jul-2024
11:46
s
zaid



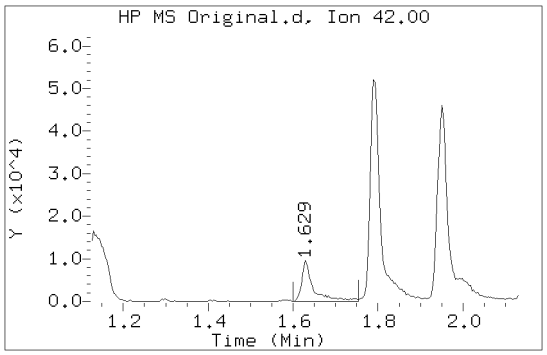
AFTER

MASS
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AREA
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HEIGHT
27720
12-Jul-2024
11:46
s
zaid



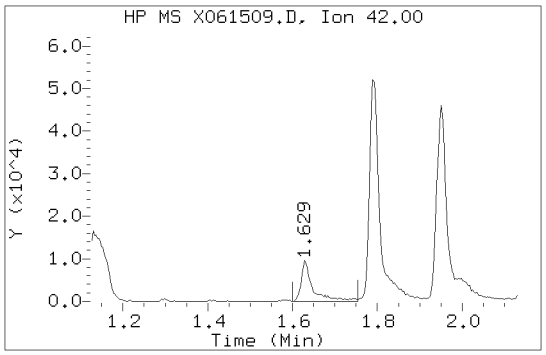
BEFORE

MASS
42
AREA
18378
HEIGHT
9598
12-Jul-2024
11:46
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zaid



AFTER

MASS
42
AREA
18378
HEIGHT
9598
12-Jul-2024
11:46
s
zaid



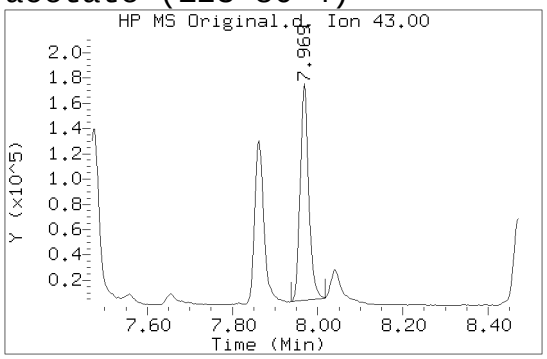
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061509.D
Inj Date : 15-JUN-2024 16:41
InstruID : voa7.i
LabSampID : VSTD100

n-Butyl acetate (123-86-4)

Reason Code:

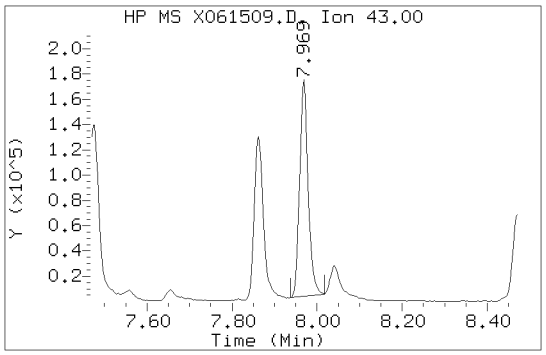
BEFORE

MASS
43
AREA
239739
HEIGHT
171263
12-Jul-2024
11:46
s
zaid



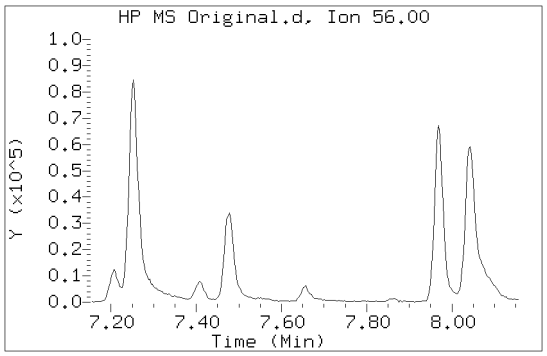
AFTER

MASS
43
AREA
239739
HEIGHT
171263
12-Jul-2024
11:46
s
zaid



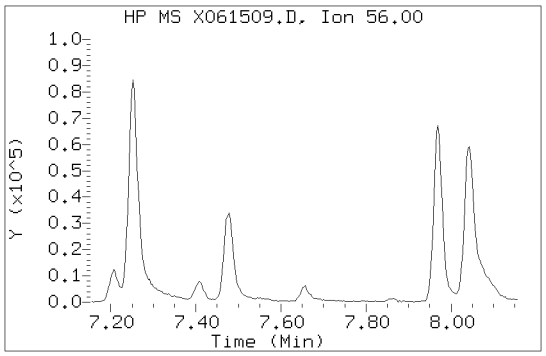
BEFORE

MASS
56
AREA
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HEIGHT
0
12-Jul-2024
11:46
s
zaid



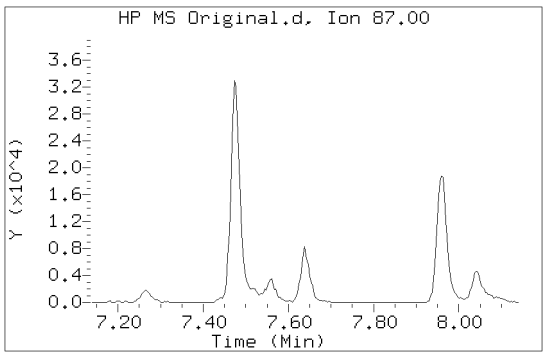
AFTER

MASS
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AREA
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HEIGHT
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12-Jul-2024
11:46
s
zaid



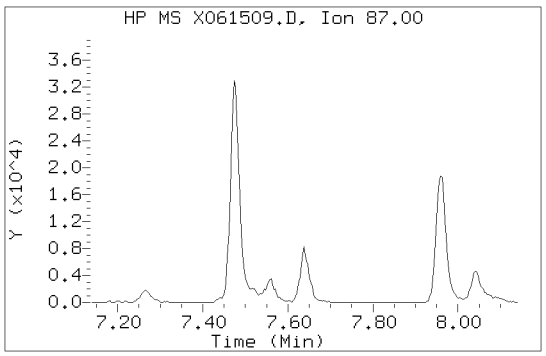
BEFORE

MASS
87
AREA
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HEIGHT
0
12-Jul-2024
11:46
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zaid



AFTER

MASS
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AREA
0
HEIGHT
0
12-Jul-2024
11:46
s
zaid

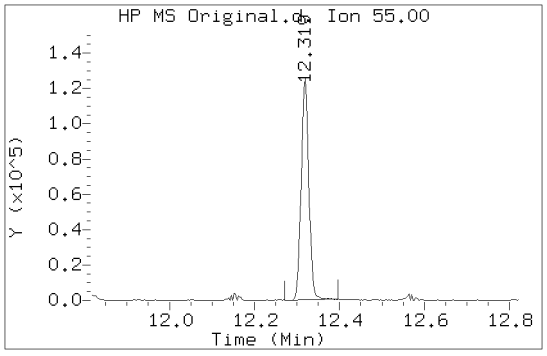


2-Etyhlhexyl Acrylate (103-11-7)

Reason Code:

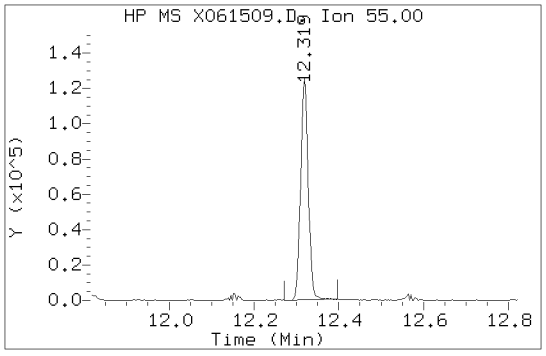
BEFORE

MASS
55
AREA
157065
HEIGHT
125280
12-Jul-2024
11:46
s
zaid



AFTER

MASS
55
AREA
157065
HEIGHT
125280
12-Jul-2024
11:46
s
zaid



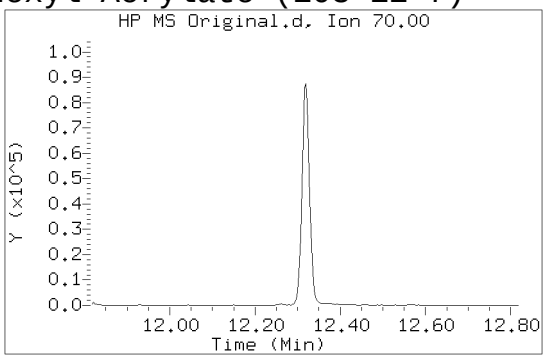
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061509.D
Inj Date : 15-JUN-2024 16:41
InstruID : voa7.i
LabSampID : VSTD100

2-Etyhlhexyl Acrylate (103-11-7)

Reason Code:

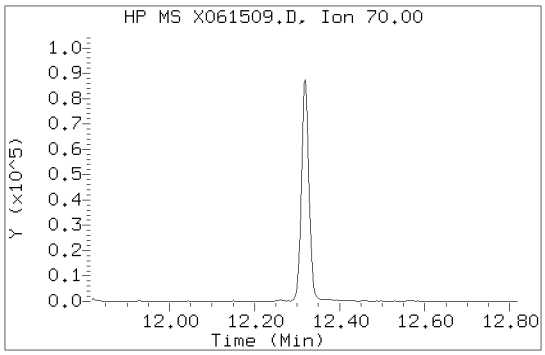
BEFORE

MASS
70
AREA
0
HEIGHT
0
12-Jul-2024
11:46
s
zaid



AFTER

MASS
70
AREA
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HEIGHT
0
12-Jul-2024
11:46
s
zaid

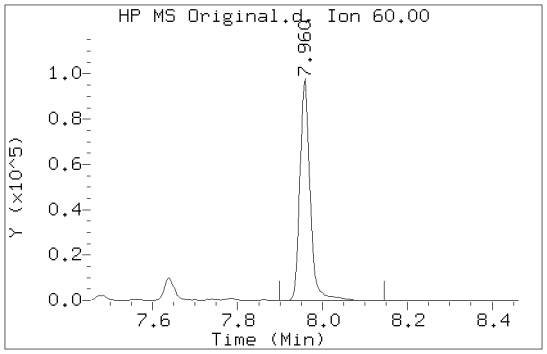


Tetrahydrothiophene (110-01-0)

Reason Code:

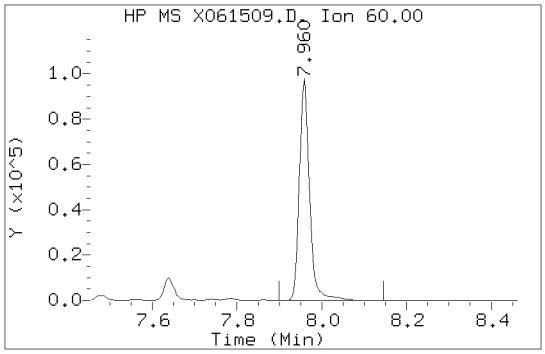
BEFORE

MASS
60
AREA
161935
HEIGHT
97824
12-Jul-2024
11:46
s
zaid



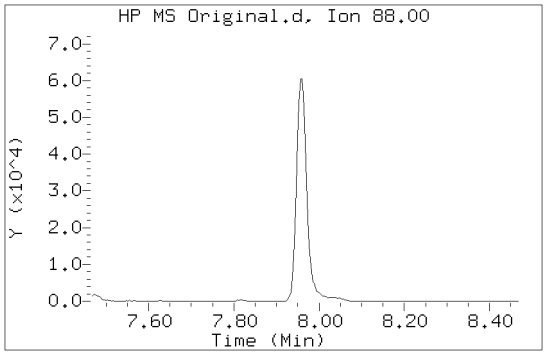
AFTER

MASS
60
AREA
161935
HEIGHT
97824
12-Jul-2024
11:46
s
zaid



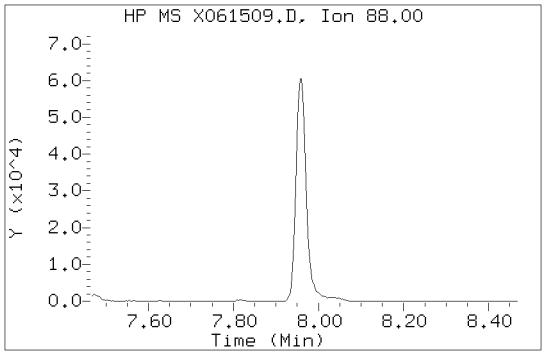
BEFORE

MASS
88
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0
HEIGHT
0
12-Jul-2024
11:46
s
zaid



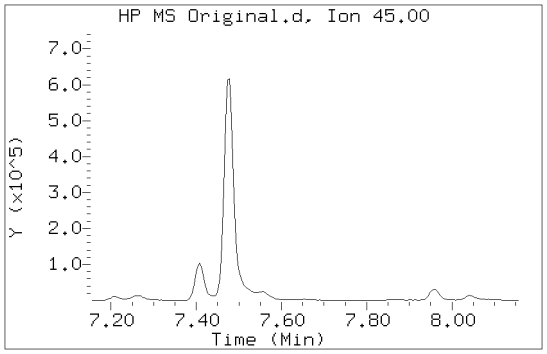
AFTER

MASS
88
AREA
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HEIGHT
0
12-Jul-2024
11:46
s
zaid



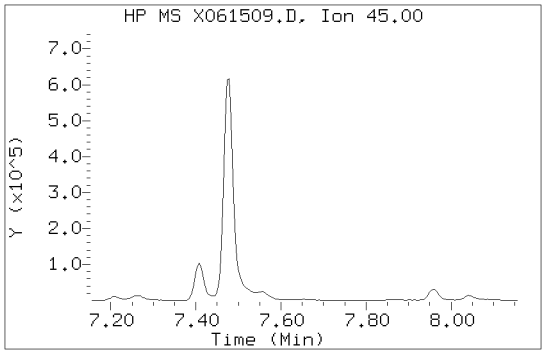
BEFORE

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12-Jul-2024
11:46
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zaid



AFTER

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AREA
0
HEIGHT
0
12-Jul-2024
11:46
s
zaid



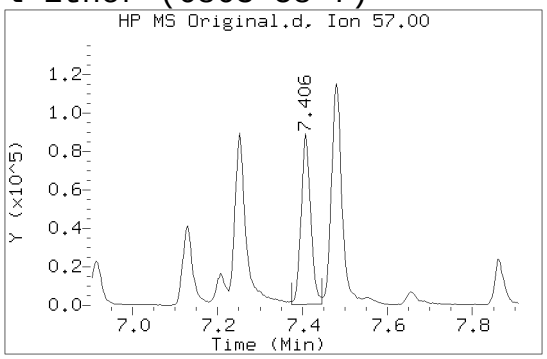
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061509.D
Inj Date : 15-JUN-2024 16:41
InstruID : voa7.i
LabSampID : VSTD100

sec-Butyl Ether (6863-58-7)

Reason Code:

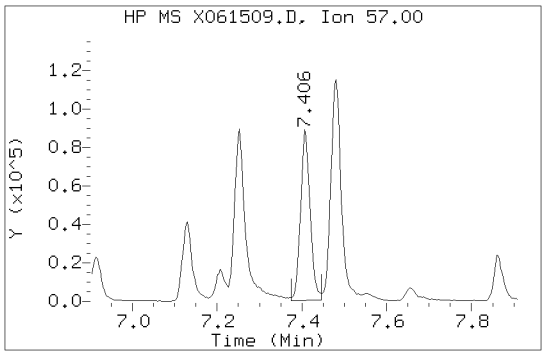
BEFORE

MASS
57
AREA
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HEIGHT
88516
12-Jul-2024
11:46
s
zaid



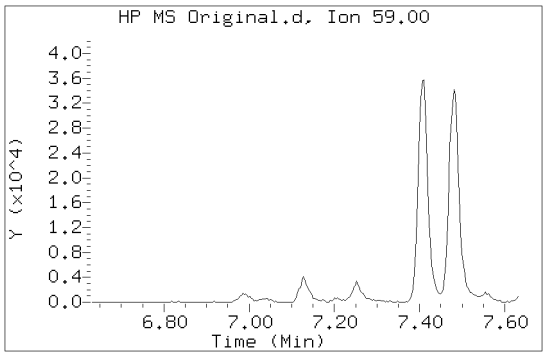
AFTER

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88516
12-Jul-2024
11:46
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zaid



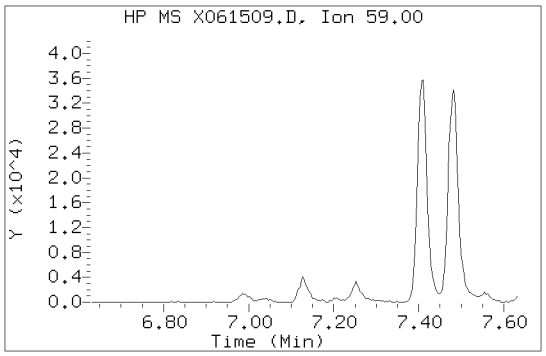
BEFORE

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59
AREA
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0
12-Jul-2024
11:46
s
zaid



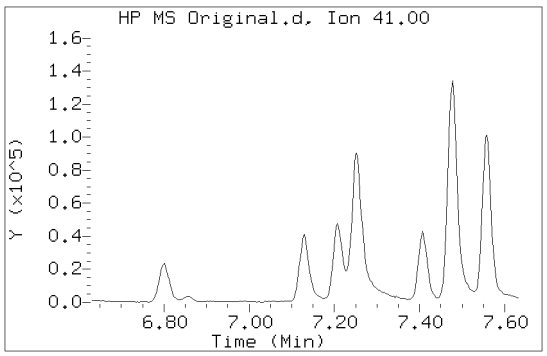
AFTER

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59
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12-Jul-2024
11:46
s
zaid



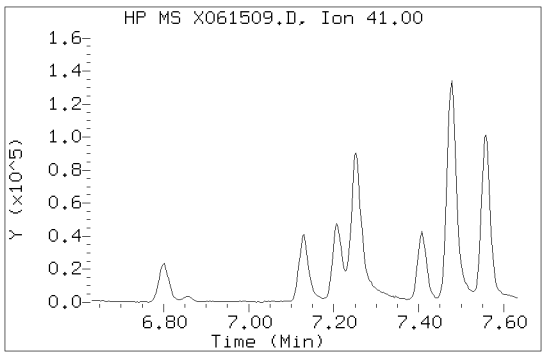
BEFORE

MASS
41
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12-Jul-2024
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zaid



AFTER

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HEIGHT
0
12-Jul-2024
11:46
s
zaid

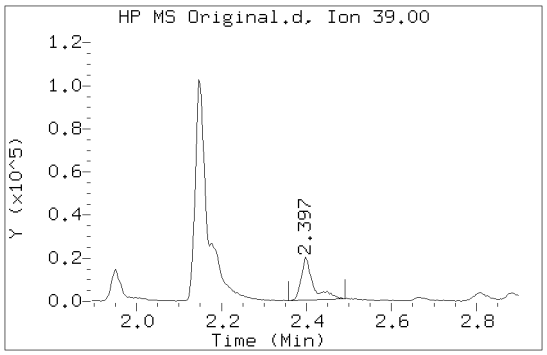


Isoprene (78-79-5)

Reason Code:

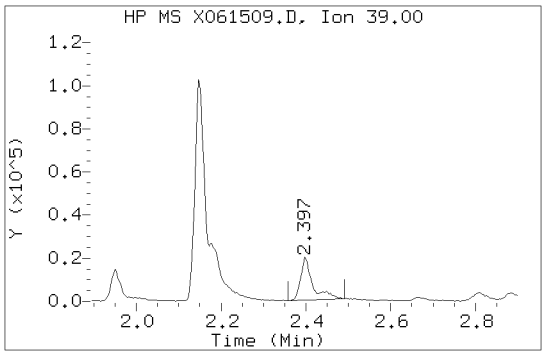
BEFORE

MASS
39
AREA
39454
HEIGHT
19933
12-Jul-2024
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zaid



AFTER

MASS
39
AREA
39454
HEIGHT
19933
12-Jul-2024
11:46
s
zaid



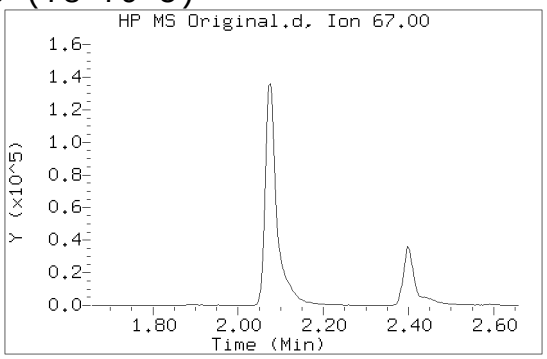
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Inj Date : 15-JUN-2024 16:41
InstruID : voa7.i
LabSampID : VSTD100

Isoprene (78-79-5)

Reason Code:

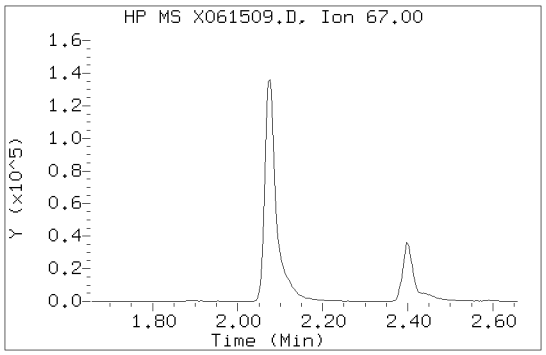
BEFORE

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67
AREA
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0
12-Jul-2024
11:46
s
zaid



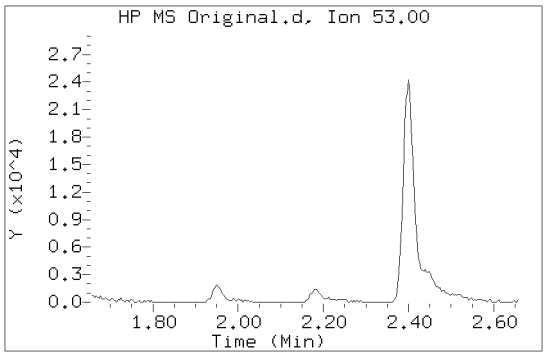
AFTER

MASS
67
AREA
0
HEIGHT
0
12-Jul-2024
11:46
s
zaid



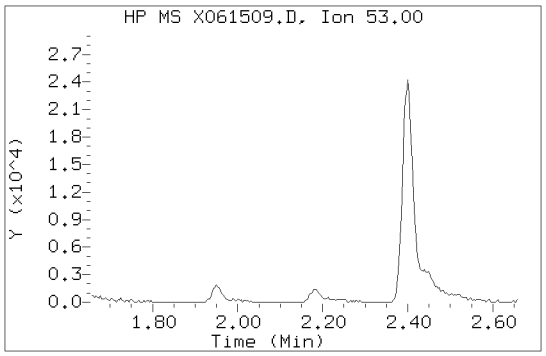
BEFORE

MASS
53
AREA
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HEIGHT
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12-Jul-2024
11:46
s
zaid



AFTER

MASS
53
AREA
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HEIGHT
0
12-Jul-2024
11:46
s
zaid



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061510.D Page 1
Report Date: 12-Jul-2024 11:38

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061510.D
Lab Smp Id: VSTD200 Client Smp ID: VSTD200
Inj Date : 15-JUN-2024 17:04
Operator : AP Inst ID: voa7.i
Smp Info : VSTD200;VSTD200;1;9
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240615.b\8260W.m
Meth Date : 12-Jul-2024 11:38 voa7.i Quant Type: ISTD
Cal Date : 15-JUN-2024 16:41 Cal File: X061509.D
Als bottle: 10 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	5.130	5.130	(1.000)	137497	50.0000	
2	Dichlorodifluoromethane	85	1.294	1.294	(0.252)	292167	200.000	201.48(A)
159	Dichlorofluoromethane	67	2.072	2.072	(0.404)	535069	200.000	186.87(A)
3	Chloromethane	50	1.448	1.448	(0.282)	419418	200.000	200.76(A)
4	Propionitrile	54	4.673	4.673	(0.911)	364385	2000.00	1988.69
5	Vinyl Chloride	62	1.535	1.535	(0.299)	390540	200.000	201.69(A)
6	Bromomethane	94	1.802	1.802	(0.351)	205045	200.000	199.94
7	Chloroethane	64	1.892	1.892	(0.369)	235748	200.000	201.27(A)
8	Trichlorofluoromethane	101	2.110	2.110	(0.411)	502365	200.000	201.15(A)
9	Acrolein	56	2.519	2.519	(0.491)	13679	400.000	353.09
10	Acetone	43	2.667	2.667	(0.520)	183152	400.000	399.61
11	1,1-Dichloroethene	96	2.590	2.590	(0.505)	285852	200.000	201.57(A)
12	Isobutyl Alcohol	43	5.573	5.573	(1.086)	902069	4000.00	4001.19(A)
13	Acetonitrile	39	2.959	2.959	(0.577)	422464	2000.00	2002.40(A)
14	Allyl Chloride	41	2.959	2.959	(0.577)	869165	200.000	199.44
15	Iodomethane	142	2.741	2.741	(0.534)	752080	400.000	406.08(A)
16	Acrylonitrile	53	3.377	3.377	(0.658)	191487	400.000	398.96
17	Methylene Chloride	84	3.094	3.094	(0.603)	316697	200.000	200.21
18	Methyl tert-butyl ether	73	3.377	3.377	(0.658)	789645	200.000	201.24(A)
19	Carbon Disulfide	76	2.795	2.795	(0.545)	1741724	400.000	402.86(A)

20 trans-1,2-Dichloroethene	96	3.374	3.374 (0.658)	294156	200.000	200.95(A)
21 Vinyl Acetate	43	4.657	4.657 (0.908)	303449	400.000	400.20(A)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
22	1,1-Dichloroethane	63	3.863	3.863	(0.753)	602316	200.000	186.33
23	Chloroprene	53	3.962	3.962	(0.772)	517186	200.000	201.52(A)
24	2-Butanone	43	4.589	4.589	(0.895)	252867	400.000	400.41(A)
25	Methacrylonitrile	41	2.146	2.146	(0.418)	486972	200.000	212.50
26	2,2-Dichloropropane	77	4.532	4.532	(0.883)	528685	200.000	192.68
27	cis-1,2-Dichloroethene	96	4.544	4.544	(0.886)	326517	200.000	200.48(A)
28	Chloroform	83	4.905	4.905	(0.956)	578887	200.000	200.12(A)
29	Bromochloromethane	128	4.808	4.808	(0.937)	159282	200.000	200.54(A)
$ 30	Dibromofluoromethane	113	5.075	5.075	(0.989)	284861	200.000	200.21(A)
31	1,1,1-Trichloroethane	97	5.072	5.072	(0.989)	518715	200.000	201.03(A)
32	1,1-Dichloropropene	75	5.245	5.245	(0.896)	449030	200.000	202.37(A)
33	1,2-Dichloroethane	62	5.493	5.493	(0.938)	487787	200.000	200.69(A)
34	Carbon Tetrachloride	117	5.236	5.236	(0.895)	461014	200.000	202.95(A)
$ 35	1,2-Dichloroethane-d4	65	5.416	5.416	(1.056)	373277	200.000	200.21(A)
* 36	1,4-Difluorobenzene	114	5.853	5.853	(1.000)	225800	50.0000	
37	Benzene	78	5.458	5.458	(0.932)	1202917	200.000	201.26(A)
38	Trichloroethene	130	6.088	6.088	(1.040)	313152	200.000	201.78(A)
39	Bromodichloromethane	83	6.570	6.570	(1.122)	463216	200.000	184.26
40	Methyl Methacrylate	41	6.432	6.432	(1.254)	284906	200.000	198.70
41	2-Chloroethylvinyl ether	63	6.856	6.856	(1.171)	285285	400.000	400.34(A)
42	1,2-Dichloropropane	63	6.310	6.310	(1.078)	346536	200.000	201.31(A)
43	2-Nitropropane	43	6.802	6.802	(1.326)	100260	200.000	202.28(A)
44	Dibromomethane	93	6.419	6.419	(1.097)	199194	200.000	201.44(A)
45	4-Methyl-2-Pentanone	43	7.130	7.130	(0.842)	630364	400.000	401.91(A)
46	cis-1,3-Dichloropropene	75	6.978	6.978	(1.192)	504454	200.000	202.46(A)
* 47	Chlorobenzene-d5	117	8.467	8.467	(1.000)	212511	50.0000	
$ 48	Toluene-d8	98	7.207	7.207	(0.851)	1013765	200.000	200.38(A)
49	Ethyl Methacrylate	69	8.043	8.043	(1.374)	479491	200.000	199.88
50	Toluene	91	7.265	7.265	(0.858)	1248377	200.000	200.98(A)
51	trans-1,3-Dichloropropene	75	6.978	6.978	(1.192)	504454	200.000	202.46(A)
52	2-Hexanone	43	7.863	7.863	(0.929)	418635	400.000	397.74
53	1,1,2-Trichloroethane	83	7.638	7.638	(0.902)	232912	200.000	199.97
54	1,3-Dichloropropane	76	7.782	7.782	(0.919)	502687	200.000	200.62(A)
55	Dibromochloromethane	129	7.975	7.975	(0.942)	335061	200.000	192.49
56	Tetrachloroethene	164	7.740	7.740	(0.914)	242940	200.000	202.00(A)
57	1,2-Dibromoethane	107	8.075	8.075	(0.954)	248060	200.000	200.85(A)
58	1-Chlorohexane	55	8.470	8.470	(1.447)	303981	200.000	201.65(A)
59	Chlorobenzene	112	8.493	8.493	(1.003)	816634	200.000	200.87(A)
60	1,1,1,2-Tetrachloroethane	131	8.567	8.567	(1.012)	300759	200.000	202.57(A)
61	Ethylbenzene	106	8.586	8.586	(1.014)	424071	200.000	201.33(A)
62	m,p-Xylenes	106	8.686	8.686	(1.026)	1059701	400.000	402.03(A)
63	o-Xylene	106	9.027	9.027	(1.066)	509699	200.000	200.89(A)
64	Styrene	104	9.039	9.039	(1.068)	903128	200.000	201.00(A)
66	Bromoform	173	9.207	9.207	(1.087)	217025	200.000	197.73
67	Isopropylbenzene	105	9.342	9.342	(1.103)	1334335	200.000	201.56(A)
68	1,1,2,2-Tetrachloroethane	83	9.612	9.612	(0.919)	364431	200.000	201.52(A)
$ 69	4-Bromofluorobenzene	95	9.477	9.477	(1.119)	396379	200.000	200.31(A)
* 70	1,4-Dichlorobenzene-d4	152	10.461	10.461	(1.000)	109462	50.0000	
71	1,2,3-Trichloropropane	75	9.650	9.650	(0.923)	415838	200.000	202.05(A)
72	trans-1,4-Dichloro-2-butene	53	9.660	9.660	(1.141)	93967	200.000	202.39(A)
73	n-Propylbenzene	91	9.692	9.692	(0.927)	1657867	200.000	202.88(A)
74	Bromobenzene	156	9.605	9.605	(0.918)	359110	200.000	202.70(A)

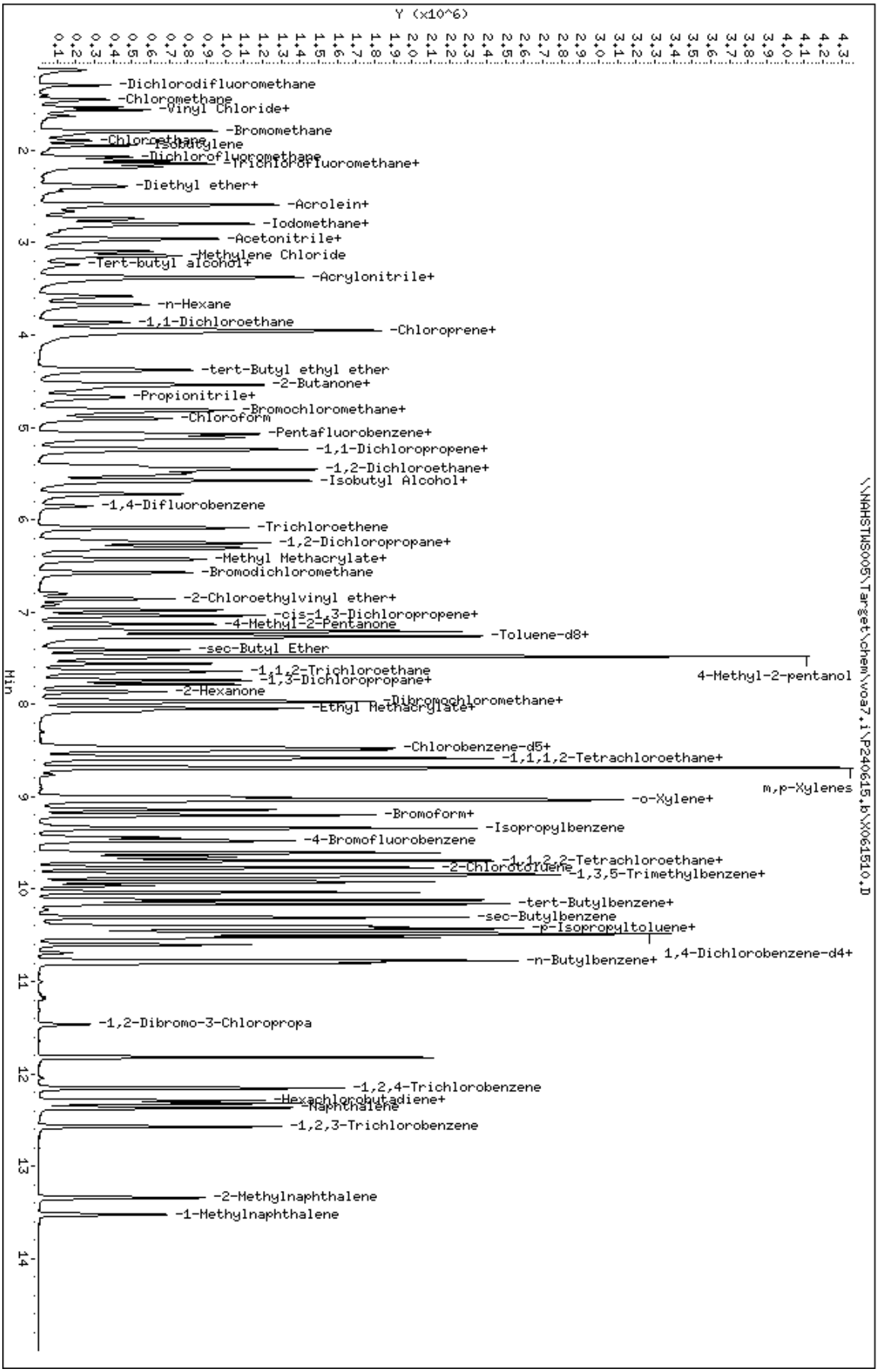
75	1,3,5-Trimethylbenzene	105	9.840	9.840 (0.941)	1199205	200.000	203.33(A)
76	2-Chlorotoluene	91	9.766	9.766 (0.934)	995846	200.000	202.20(A)

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061510.D Page 3
Report Date: 12-Jul-2024 11:38

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
77	4-Chlorotoluene	91	9.859	9.859	(0.943)	1184483	200.000	202.59(A)
78	tert-Butylbenzene	119	10.120	10.120	(0.967)	969754	200.000	202.17(A)
79	1,2,4-Trimethylbenzene	105	10.158	10.158	(0.971)	1174459	200.000	202.68(A)
81	sec-Butylbenzene	105	10.303	10.303	(0.985)	1357880	200.000	202.95(A)
82	p-Isopropyltoluene	119	10.428	10.428	(0.997)	1222531	200.000	202.84(A)
83	1,3-Dichlorobenzene	146	10.406	10.406	(0.995)	661530	200.000	202.49(A)
84	1,4-Dichlorobenzene	146	10.480	10.480	(1.002)	669697	200.000	202.03(A)
87	n-Butylbenzene	91	10.776	10.776	(1.030)	1137513	200.000	202.32(A)
88	1,2-Dichlorobenzene	146	10.798	10.798	(1.032)	632693	200.000	201.82(A)
89	1,2-Dibromo-3-Chloropropane	75	11.464	11.464	(1.096)	64003	200.000	197.85
90	1,2,4-Trichlorobenzene	180	12.155	12.155	(1.162)	425707	200.000	202.49(A)
91	Hexachlorobutadiene	225	12.290	12.290	(1.175)	203423	200.000	202.62(A)
92	Naphthalene	128	12.367	12.367	(1.182)	921837	200.000	196.32
93	1,2,3-Trichlorobenzene	182	12.570	12.570	(1.202)	341625	200.000	199.86
135	1,4-Dioxane	88	6.448	6.448	(1.257)	43691	4000.00	3971.44(AM)
146	Methyl acetate	43	2.991	2.991	(0.583)	219776	200.000	200.90(A)
138	Freon TF	101	2.590	2.590	(0.505)	284404	200.000	202.03(A)
139	Diethyl ether	59	2.377	2.377	(0.463)	204606	200.000	204.12(A)
140	1,3-Butadiene	54	1.564	1.564	(0.305)	182119	200.000	202.38(A)
141	Cyclohexane	56	5.110	5.110	(0.996)	489133	200.000	202.13
147	Methylcyclohexane	83	6.252	6.252	(1.068)	469723	200.000	202.35(A)
132	n-Butanol	56	6.252	6.252	(1.219)	180021	4000.00	4111.77(TA)
131	Methyl Acrylate	55	4.689	4.689	(0.914)	294954	200.000	199.25
133	Ethyl Acrylate	55	6.249	6.249	(1.218)	765252	200.000	197.80(M)
136	n-Hexane	57	3.673	3.673	(0.716)	360049	200.000	202.71(A)
142	Tetrahydrofuran	42	4.860	4.860	(0.947)	105694	400.000	407.17(A)
148	Tert-butyl alcohol	59	3.236	3.236	(0.631)	336149	4000.00	3312.77
149	Isopropyl alcohol	45	2.818	2.818	(0.549)	271337	4000.00	3994.43
151	4-Methyl-2-pentanol	45	7.477	7.477	(0.883)	2215844	4000.00	3995.34
166	1,2,3-Trimethylbenzene	105	10.522	10.522	(1.006)	1018812	200.000	180.70
167	Ethanol	45	2.313	2.313	(0.451)	38509	4000.00	4001.14(A)
172	tert-Butyl formate	59	3.236	3.236	(0.631)	336149	400.000	402.41(A)
173	3,3-Dimethyl-1-butanol	57	8.043	8.043	(0.950)	656537	4000.00	3999.41
174	tert-Amyl methyl ether	73	5.580	5.580	(1.088)	840188	200.000	200.66(A)
175	tert-Butyl ethyl ether	59	4.377	4.377	(0.853)	924307	200.000	197.15
157	2-Methylnaphthalene	142	13.342	13.342	(1.275)	416611	200.000	243.77(A)
156	Diisopropyl ether	45	3.950	3.950	(0.770)	1051609	200.000	192.60
171	1-Methylnaphthalene	142	13.525	13.525	(1.293)	333680	200.000	220.83(A)
130	Ethyl Acetate	43	3.946	3.946	(0.769)	1931046	200.000	201.19(A)
176	tert-Amyl alcohol	59	5.515	5.515	(1.075)	319518	4000.00	4004.03(A)
160	Epichlorohydrin	57	6.917	6.917	(1.182)	79218	800.000	804.72(A)
161	Butyl acrylate	55	8.998	8.998	(1.063)	724805	200.000	200.08(A)
182	Isobutylene	56	1.946	1.946	(0.380)	46322	200.000	199.66(AM)
183	Isopropyl Acetate	43	5.573	5.573	(0.952)	902069	200.000	200.78(A)
184	n-Amyl acetate	43	9.197	9.197	(1.086)	709851	200.000	201.76(A)
185	Acetaldehyde	44	1.628	1.628	(0.317)	175217	800.000	802.79(A)
186	n-Butyl acetate	43	7.969	7.969	(0.941)	496957	200.000	199.84(AM)
187	2-Etyhlhexyl Acrylate	55	12.319	12.319	(1.178)	412027	200.000	199.87(TAM)
188	Tetrahydrothiophene	60	7.959	7.959	(0.940)	335016	200.000	200.01(TAM)
189	sec-Butyl Ether	57	7.406	7.406	(0.875)	269472	200.000	197.18(AM)
190	Isoprene	39	2.397	2.397	(0.467)	85840	200.000	202.04(AM)
191	2-Chloropropene	41	2.146	2.146	(0.418)	453281	200.000	191.62(AM)

QC Flag Legend

T - Target compound detected outside RT window.
A - Target compound detected but, quantitated amount
    exceeded maximum amount.
M - Compound response manually integrated.



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Sample Info: VSTD200;VSTD200;1;9
Purge Volume: 5.0
Column phase: DB624

Instrument: voa7,i
Operator: AP
Column diameter: 0.18

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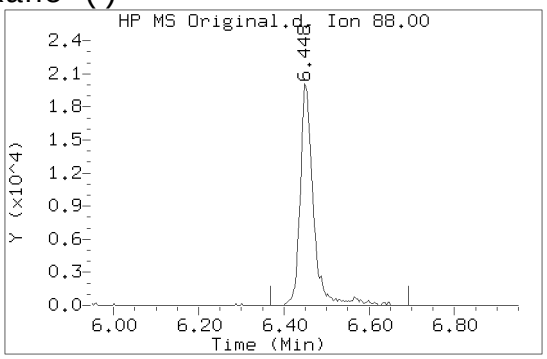
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LabSampID : VSTD200

1,4-Dioxane ()

Reason Code:

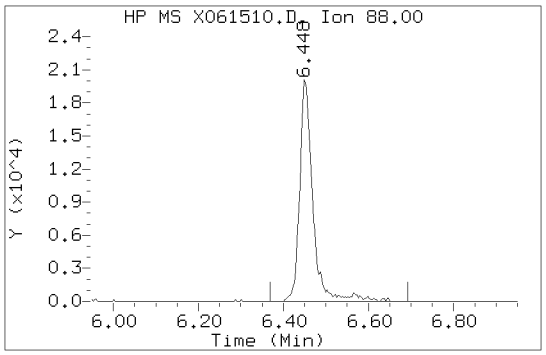
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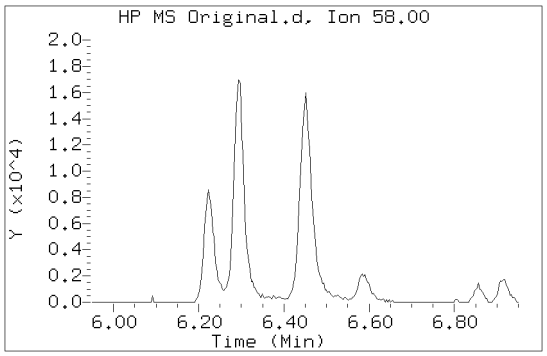
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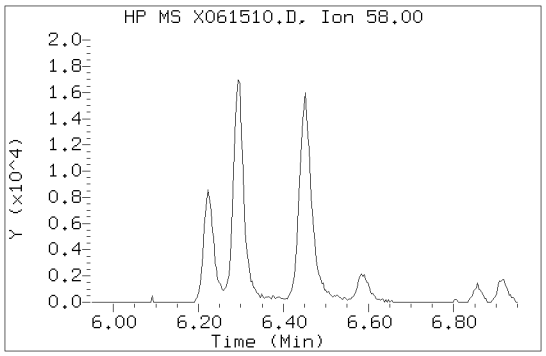
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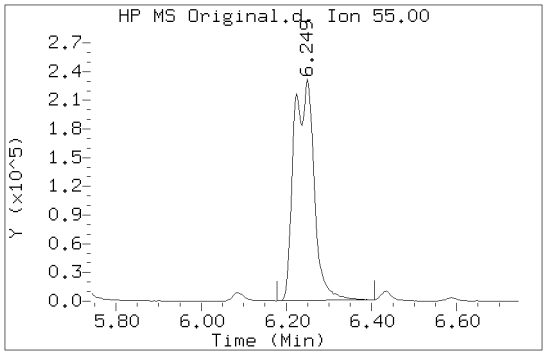


Ethyl Acrylate (140-88-5)

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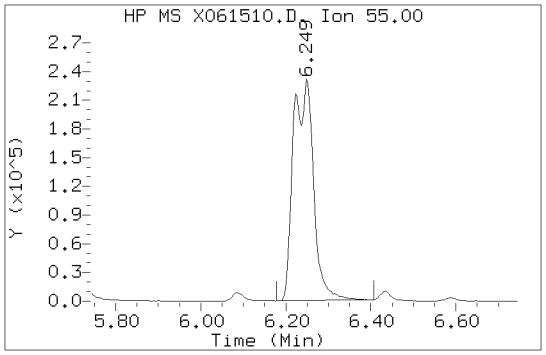
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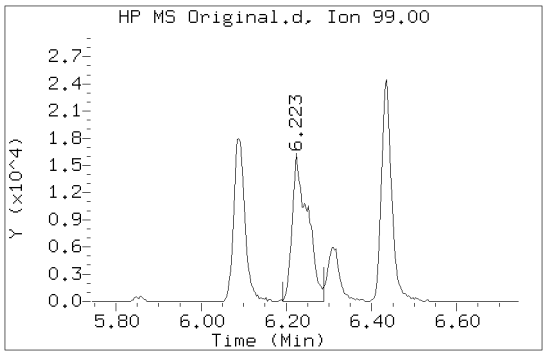
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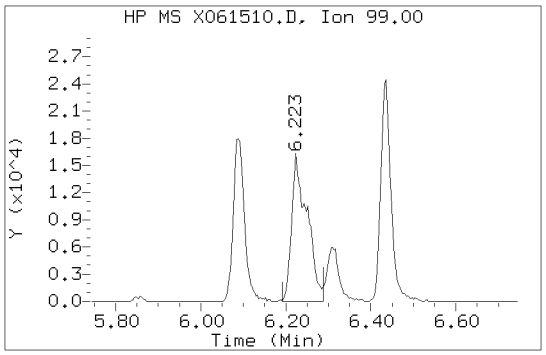
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AFTER

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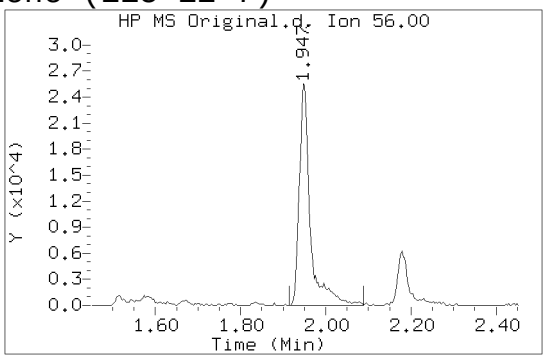
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LabSampID : VSTD200

Isobutylene (115-11-7)

Reason Code:

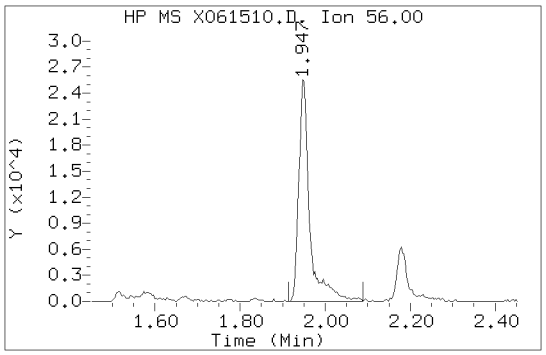
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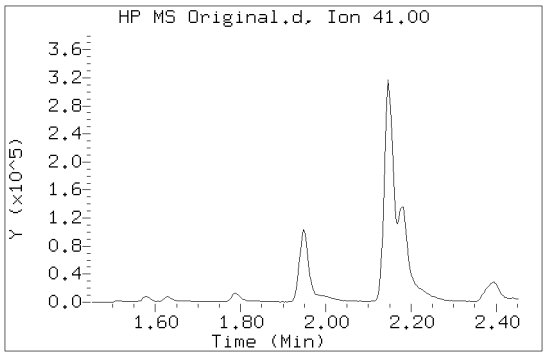
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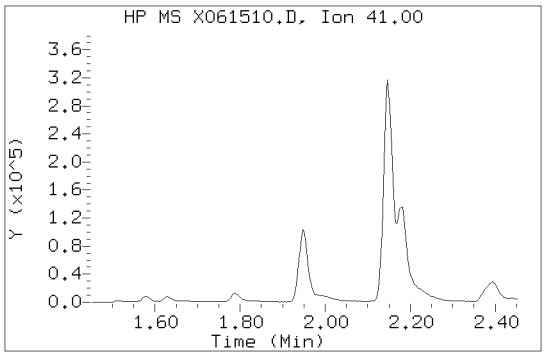
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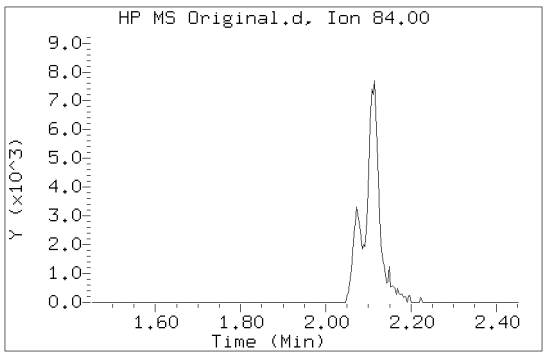
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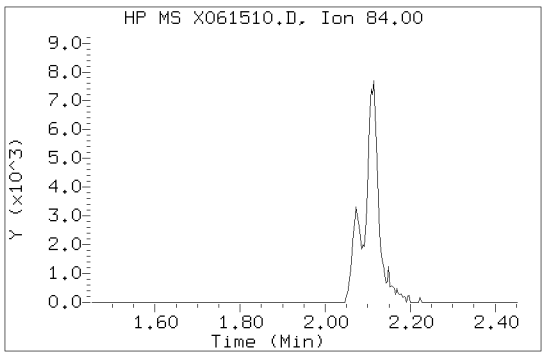
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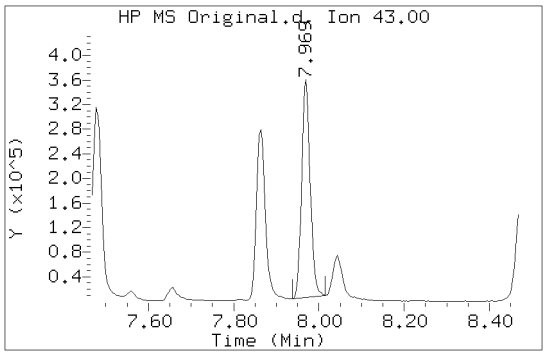


n-Butyl acetate (123-86-4)

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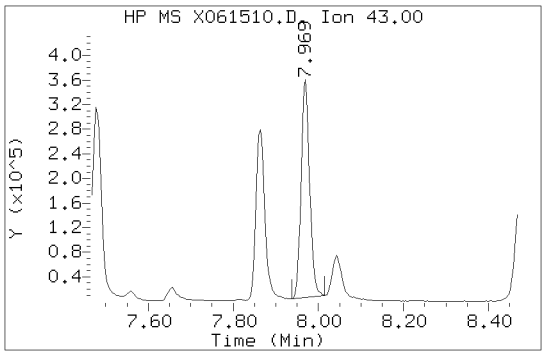
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AFTER

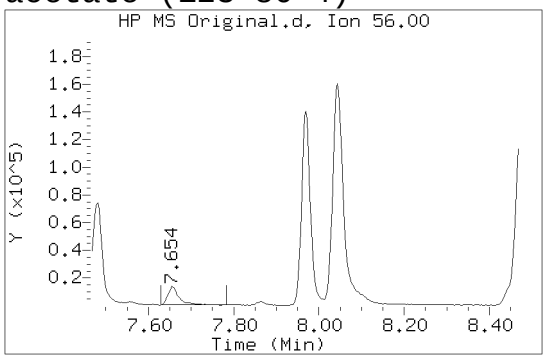
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Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061510.D
Inj Date : 15-JUN-2024 17:04
InstruID : voa7.i
LabSampID : VSTD200

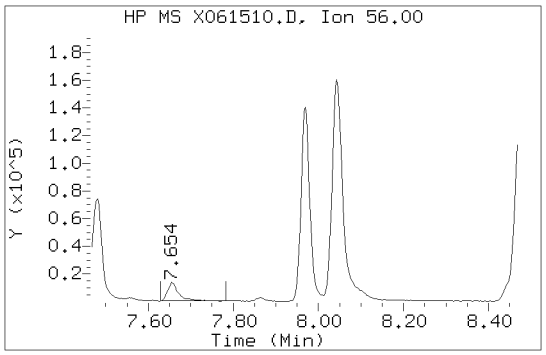
n-Butyl acetate (123-86-4)

BEFORE
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11:38
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zaid

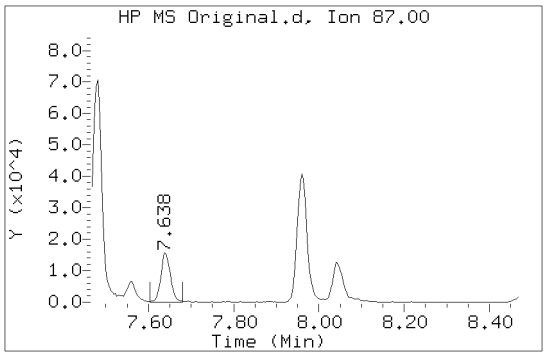


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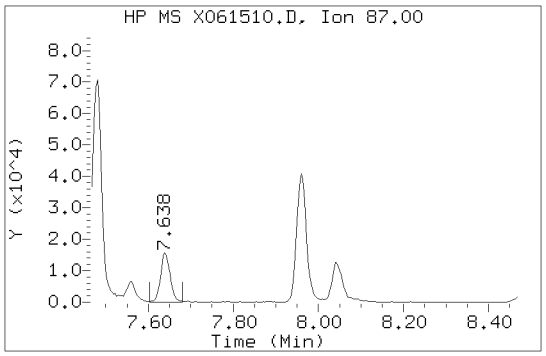
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BEFORE
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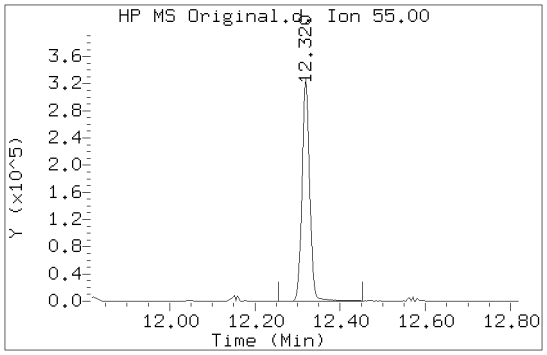
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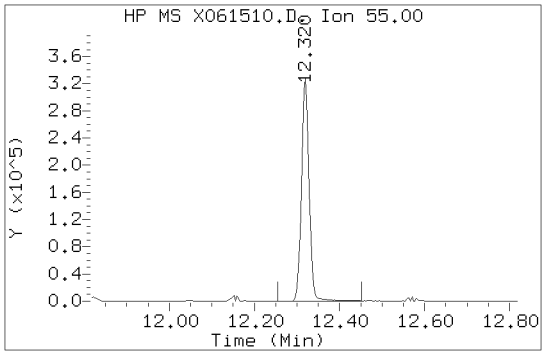
2-Etyhlhexyl Acrylate (103-11-7)

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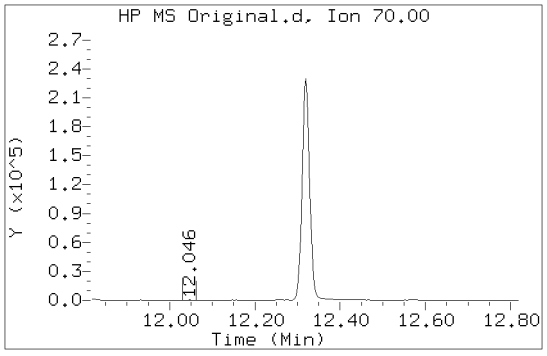
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zaid



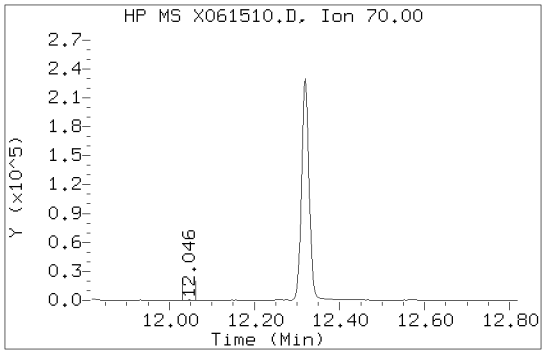
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zaid



BEFORE
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AREA
375
HEIGHT
429
12-Jul-2024
11:38
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zaid



AFTER
MASS
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AREA
375
HEIGHT
429
12-Jul-2024
11:38
s
zaid



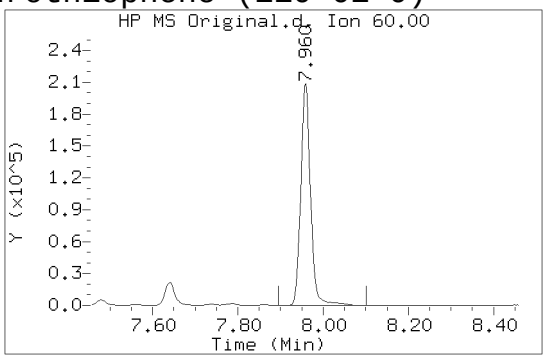
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InstruID : voa7.i
LabSampID : VSTD200

Tetrahydrothiophene (110-01-0)

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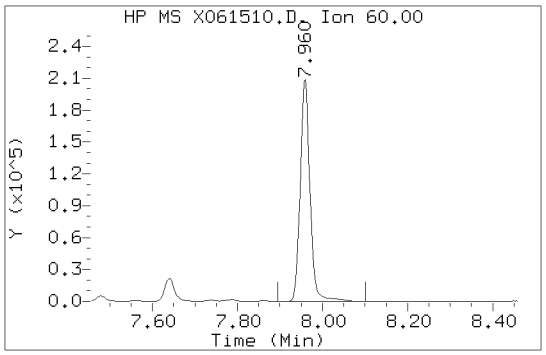
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12-Jul-2024
11:38
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zaid



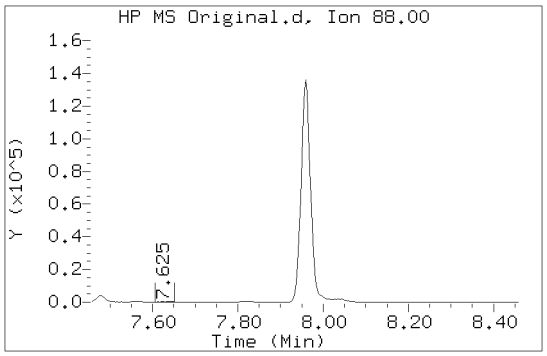
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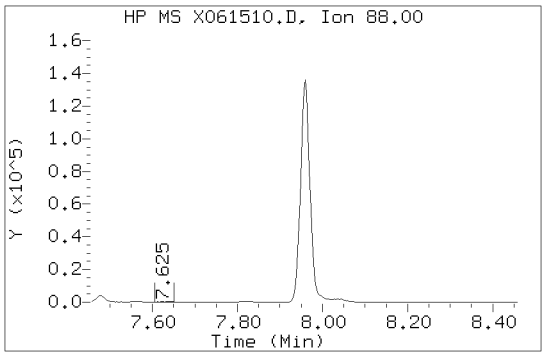
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393
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11:38
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zaid



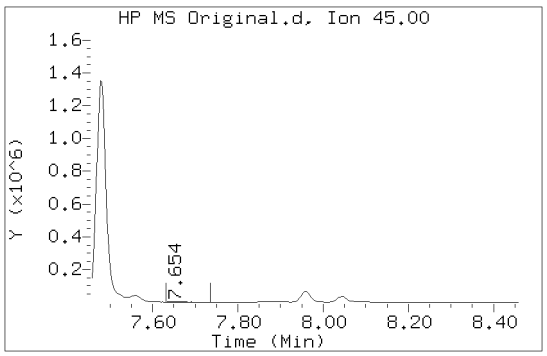
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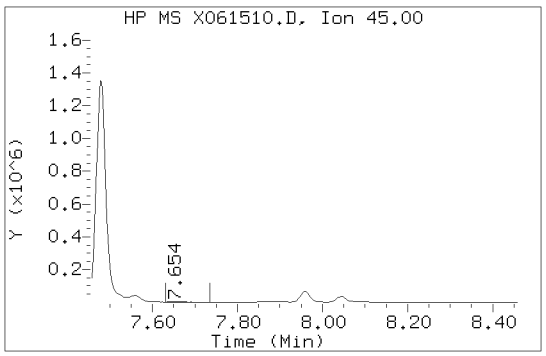
BEFORE

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5116
12-Jul-2024
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AFTER

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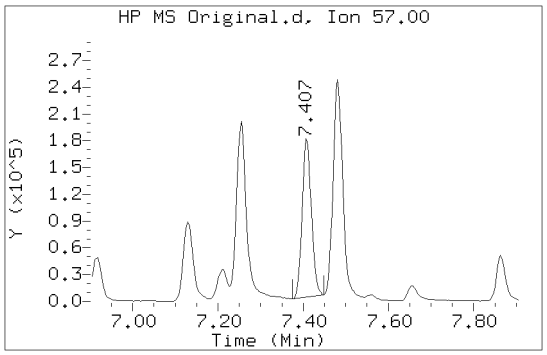


sec-Butyl Ether (6863-58-7)

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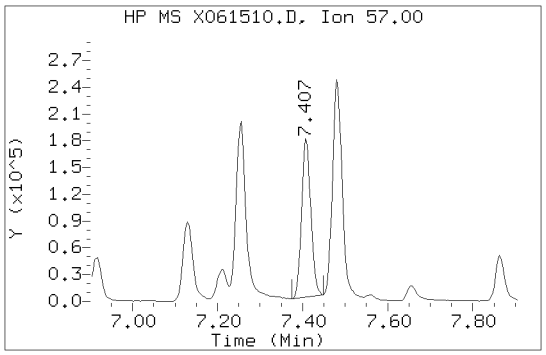
BEFORE

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177967
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AFTER

MASS
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12-Jul-2024
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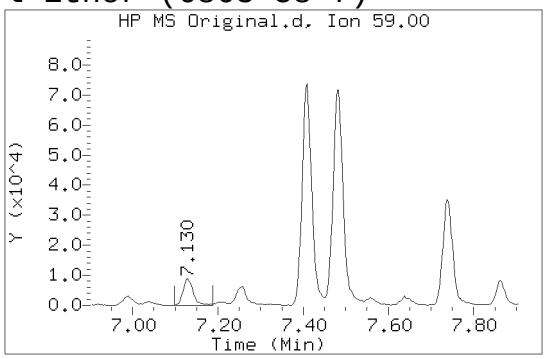


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Inj Date : 15-JUN-2024 17:04
InstruID : voa7.i
LabSampID : VSTD200

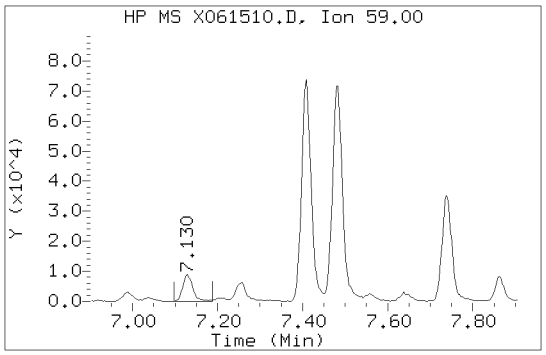
sec-Butyl Ether (6863-58-7)

Reason Code:

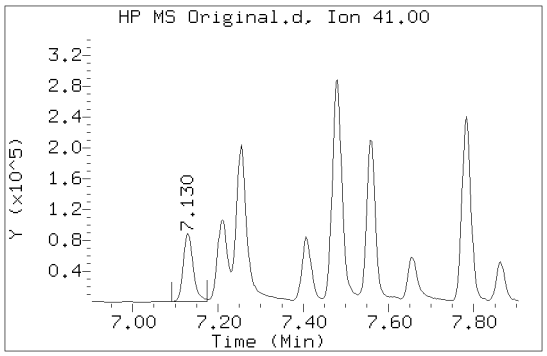
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11:38
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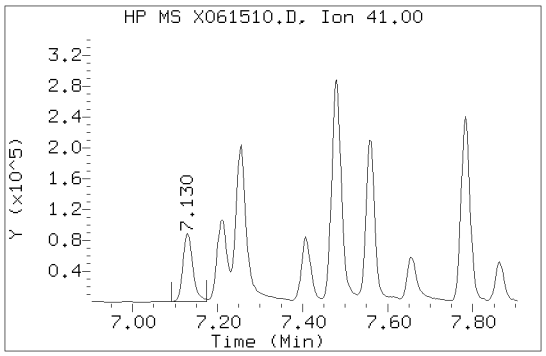
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8928
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BEFORE
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88485
12-Jul-2024
11:38
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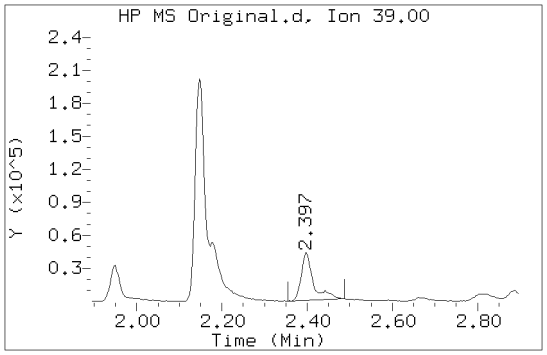
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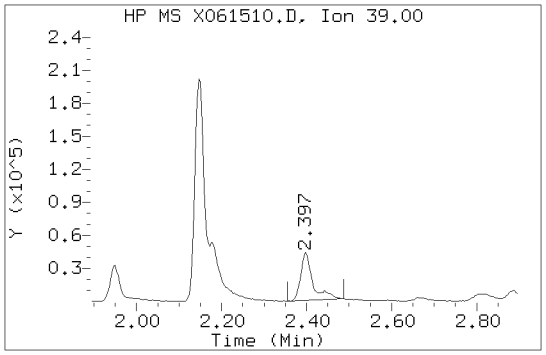
Isoprene (78-79-5)

Reason Code:

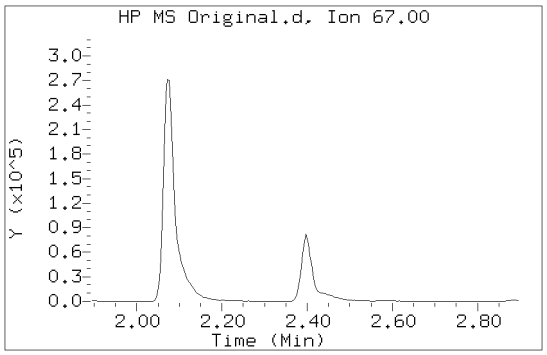
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43299
12-Jul-2024
11:38
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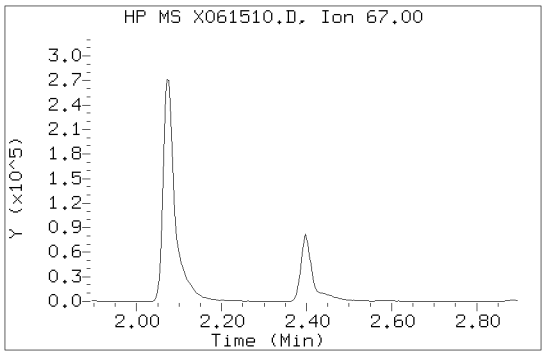
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11:38
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zaid



BEFORE
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0
HEIGHT
0
12-Jul-2024
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zaid



AFTER
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HEIGHT
0
12-Jul-2024
11:38
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zaid



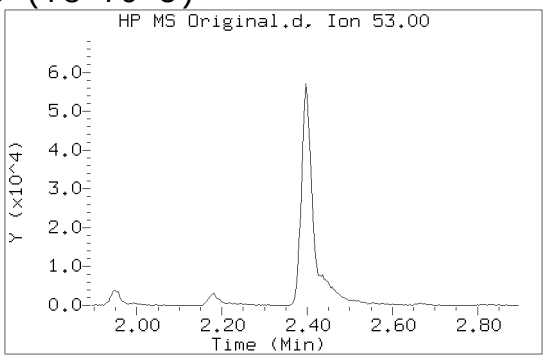
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Inj Date : 15-JUN-2024 17:04
InstruID : voa7.i
LabSampID : VSTD200

Isoprene (78-79-5)

Reason Code:

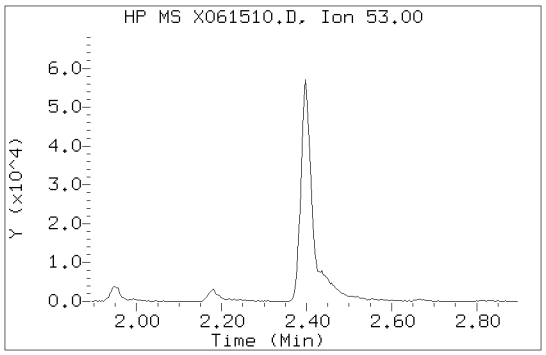
BEFORE

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53
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12-Jul-2024
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AFTER

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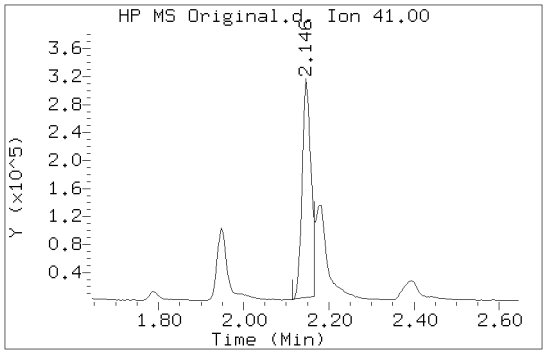


2-Chloropropene (557-98-2)

Reason Code:

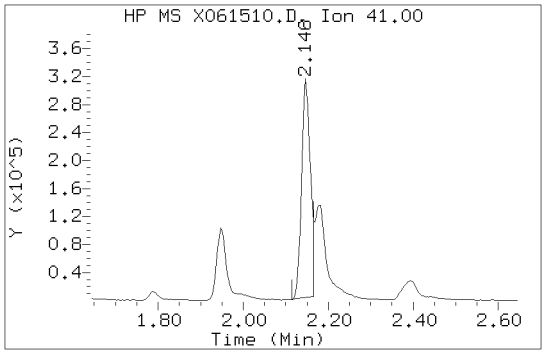
BEFORE

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12-Jul-2024
11:38
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zaid



AFTER

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HEIGHT
312568
12-Jul-2024
11:38
s
zaid



Data File: \\nahstws005\Target\chem\voa7.i\P240615.b\X061512.D Page 1
Report Date: 17-Jun-2024 10:52

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa7.i\P240615.b\X061512.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 15-JUN-2024 17:50
Operator : AP Inst ID: voa7.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240615.b\bfb.m
Meth Date : 25-Mar-2024 14:28 apoluri Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 12 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAHSTW7066

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	2.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/l)		
RT	EXP RT	REL RT	MASS	RESPONSE			TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
9.474	9.474	(0.000)	95	80376			0.00- 100.00	100.00
9.474	9.474	(0.000)	50	15549			15.00- 40.00	19.35
9.474	9.474	(0.000)	75	40272			30.00- 60.00	50.10
9.474	9.474	(0.000)	96	5267			5.00- 9.00	6.55
9.474	9.474	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
9.474	9.474	(0.000)	174	62496			50.00- 0.00	77.75
9.474	9.474	(0.000)	175	5536			5.00- 9.00	8.86
9.474	9.474	(0.000)	176	60184			95.00- 101.00	96.30
9.474	9.474	(0.000)	177	4246			5.00- 9.00	7.06

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061513A.D Page 1
Report Date: 15-Jul-2024 08:45

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061513A.D
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Inj Date : 15-JUN-2024 18:35
Operator : AP Inst ID: voa7.i
Smp Info : VSTD50;VSTD050;2;;ICV
Misc Info : HS220328V7;WATER;0;1;
Comment :
Method : \\nahstws005\Target\chem\voa7.i\P240615.b\8260W.m
Meth Date : 15-Jul-2024 08:40 s.zaid Quant Type: ISTD
Cal Date : 15-JUN-2024 16:41 Cal File: X061509.D
Als bottle: 13 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	5.133	5.133	(1.000)	136227	50.0000	
2 Dichlorodifluoromethane	85	1.294	1.294	(0.252)	61785	42.7266	42.72
159 Dichlorofluoromethane	67	2.075	2.072	(0.404)	126319	44.5283	44.52
3 Chloromethane	50	1.448	1.448	(0.282)	93411	44.3695	44.36
4 Propionitrile	54	4.670	4.670	(0.910)	93957	510.307	510.30
5 Vinyl Chloride	62	1.535	1.532	(0.299)	85693	44.5632	44.56
6 Bromomethane	94	1.808	1.808	(0.352)	47993	46.1741	46.17
7 Chloroethane	64	1.895	1.895	(0.369)	53517	45.7972	45.79
8 Trichlorofluoromethane	101	2.113	2.110	(0.412)	109974	44.1650	44.16
9 Acrolein	56	2.519	2.519	(0.491)	3782	98.5359	98.53
10 Acetone	43	2.667	2.667	(0.520)	45957	96.7453	96.74
11 1,1-Dichloroethene	96	2.593	2.589	(0.505)	65023	46.4001	46.40
12 Isobutyl Alcohol	43	5.573	5.573	(1.086)	216526	955.253	955.25
13 Acetonitrile	39	2.962	2.959	(0.577)	99382	470.620	470.62
14 Allyl Chloride	41	2.956	2.959	(0.576)	207645	47.3636	47.36
15 Iodomethane	142	2.744	2.740	(0.535)	160798	90.6493	90.64
16 Acrylonitrile	53	3.380	3.371	(0.659)	46791	97.7013	97.70
17 Methylene Chloride	84	3.094	3.091	(0.603)	74608	46.2251	46.22
18 Methyl tert-butyl ether	73	3.380	3.377	(0.659)	177333	45.8395	45.83
19 Carbon Disulfide	76	2.795	2.795	(0.545)	383629	89.1120	89.11

20 trans-1,2-Dichloroethene	96	3.374	3.377 (0.657)	66371	45.5569	45.55
21 Vinyl Acetate	43	4.657	4.657 (0.907)	72230	93.5861	93.58

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
22	1,1-Dichloroethane	63	3.863	3.863	(0.753)	137106	42.8111	42.81
23	Chloroprene	53	3.965	3.966	(0.773)	112610	44.2631	44.26
24	2-Butanone	43	4.589	4.586	(0.894)	61809	95.5627	95.56
25	Methacrylonitrile	41	2.149	2.146	(0.419)	104812	46.1638	46.16
26	2,2-Dichloropropane	77	4.535	4.531	(0.883)	113593	41.7855	41.78
27	cis-1,2-Dichloroethene	96	4.544	4.544	(0.885)	75661	46.4828	46.48
28	Chloroform	83	4.901	4.901	(0.955)	133339	45.9129	45.91
29	Bromochloromethane	128	4.808	4.802	(0.937)	37284	47.0646	47.06
$ 30	Dibromofluoromethane	113	5.072	5.072	(0.988)	70019	48.1382	48.13
31	1,1,1-Trichloroethane	97	5.075	5.072	(0.989)	112999	44.1967	44.19
32	1,1-Dichloropropene	75	5.245	5.245	(0.896)	99095	44.4191	44.41
33	1,2-Dichloroethane	62	5.490	5.493	(0.938)	111939	45.3701	45.37
34	Carbon Tetrachloride	117	5.236	5.232	(0.895)	95671	42.5311	42.53
$ 35	1,2-Dichloroethane-d4	65	5.416	5.412	(1.055)	90411	46.5250	46.52
* 36	1,4-Difluorobenzene	114	5.853	5.853	(1.000)	227526	50.0000	
37	Benzene	78	5.457	5.457	(0.932)	276508	45.5396	45.53
38	Trichloroethene	130	6.088	6.088	(1.040)	71234	45.4414	45.44
39	Bromodichloromethane	83	6.570	6.570	(1.122)	102608	40.5073	40.50
40	Methyl Methacrylate	41	6.432	6.432	(1.253)	72561	49.7630	49.76
41	2-Chloroethylvinyl ether	63	6.853	6.856	(1.171)	62235	100.673	100.67(A)
42	1,2-Dichloropropane	63	6.309	6.309	(1.078)	80122	45.8656	45.86
43	2-Nitropropane	43	6.798	6.798	(1.324)	22639	46.3672	46.36
44	Dibromomethane	93	6.416	6.419	(1.096)	45856	45.9899	45.98
45	4-Methyl-2-Pentanone	43	7.126	7.126	(0.842)	151701	96.8892	96.88
46	cis-1,3-Dichloropropene	75	6.978	6.975	(1.192)	107051	42.9756	42.97
* 47	Chlorobenzene-d5	117	8.467	8.467	(1.000)	209133	50.0000	
$ 48	Toluene-d8	98	7.203	7.203	(0.851)	246619	48.7535	48.75
49	Ethyl Methacrylate	69	8.039	8.043	(1.374)	97275	48.5315	48.53
50	Toluene	91	7.264	7.264	(0.858)	289226	46.8348	46.83
51	trans-1,3-Dichloropropene	75	6.978	6.975	(1.192)	107051	42.9756	42.97
52	2-Hexanone	43	7.859	7.859	(0.928)	105118	99.2636	99.26
53	1,1,2-Trichloroethane	83	7.637	7.637	(0.902)	56629	48.7611	48.76
54	1,3-Dichloropropane	76	7.782	7.782	(0.919)	117938	47.2500	47.25
55	Dibromochloromethane	129	7.978	7.975	(0.942)	74336	43.3965	43.39
56	Tetrachloroethene	164	7.737	7.737	(0.914)	54881	46.3100	46.30
57	1,2-Dibromoethane	107	8.071	8.071	(0.953)	56824	46.0540	46.05
58	1-Chlorohexane	55	8.467	8.467	(1.447)	72236	45.7622	45.76
59	Chlorobenzene	112	8.493	8.493	(1.003)	189695	46.8996	46.89
60	1,1,1,2-Tetrachloroethane	131	8.563	8.563	(1.011)	65674	45.3115	45.31
61	Ethylbenzene	106	8.583	8.583	(1.014)	96847	46.3161	46.31
62	m,p-Xylenes	106	8.682	8.682	(1.025)	243915	93.1886	93.18
63	o-Xylene	106	9.023	9.023	(1.066)	117675	46.5592	46.55
64	Styrene	104	9.039	9.039	(1.068)	212390	47.5650	47.56
66	Bromoform	173	9.206	9.206	(1.087)	48677	45.0671	45.06
67	Isopropylbenzene	105	9.338	9.338	(1.103)	301177	45.9827	45.98
68	1,1,2,2-Tetrachloroethane	83	9.608	9.608	(0.919)	88012	47.9223	47.92
$ 69	4-Bromofluorobenzene	95	9.473	9.473	(1.119)	99134	48.9527	48.95
* 70	1,4-Dichlorobenzene-d4	152	10.457	10.457	(1.000)	109830	50.0000	
71	1,2,3-Trichloropropane	75	9.650	9.647	(0.923)	97296	46.6570	46.65
72	trans-1,4-Dichloro-2-butene	53	9.660	9.657	(1.141)	19704	43.2626	43.26
73	n-Propylbenzene	91	9.689	9.689	(0.927)	371370	45.3059	45.30
74	Bromobenzene	156	9.605	9.602	(0.919)	82413	46.2048	46.20

75	1,3,5-Trimethylbenzene	105	9.837	9.837 (0.941)	264058	44.7875	44.78
76	2-Chlorotoluene	91	9.766	9.766 (0.934)	228938	45.9649	45.96

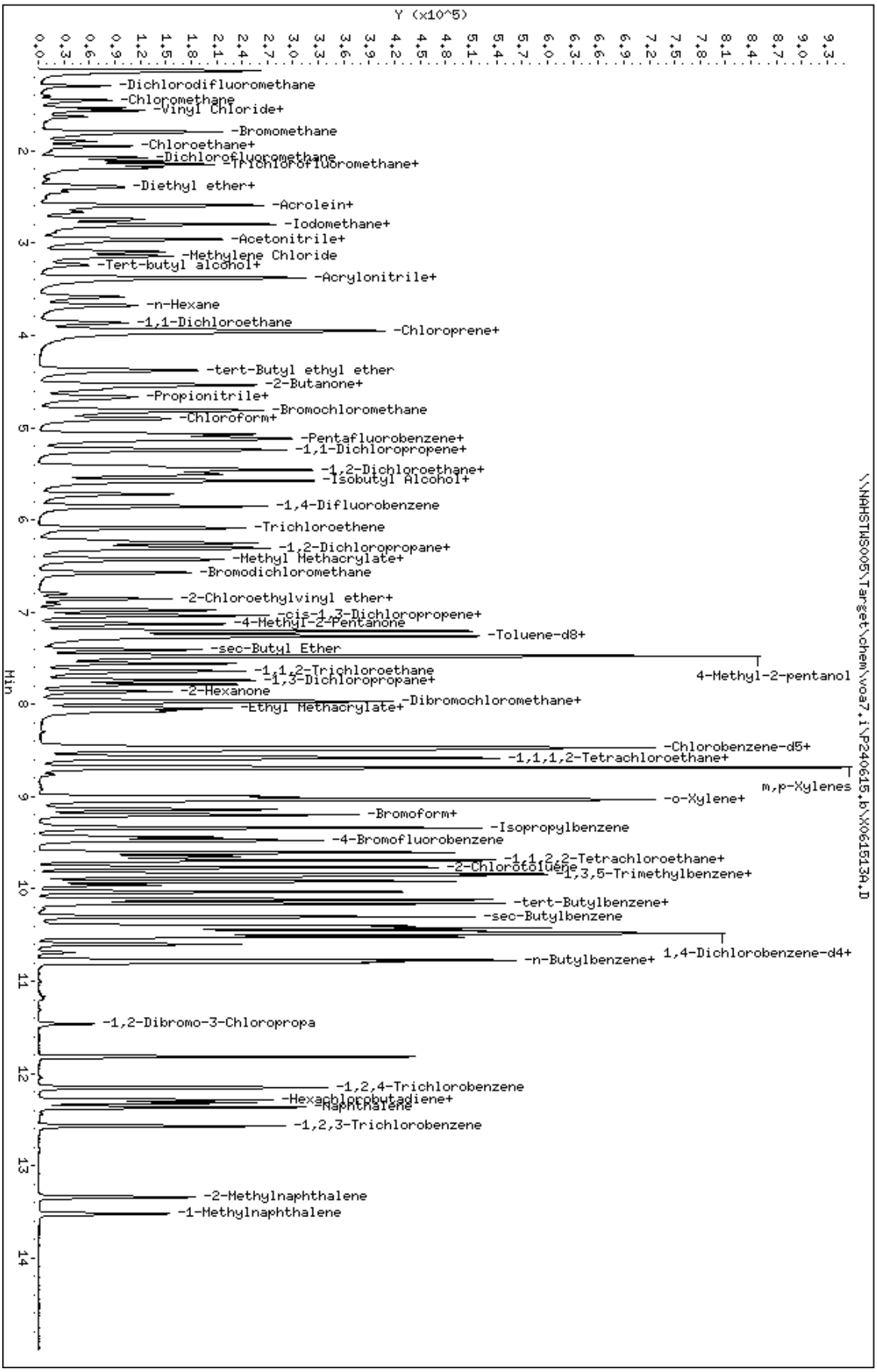
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Report Date: 15-Jul-2024 08:45

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
77	4-Chlorotoluene	91	9.859	9.859	(0.943)	268779	45.6093	45.60
78	tert-Butylbenzene	119	10.116	10.116	(0.967)	216656	44.8275	44.82
79	1,2,4-Trimethylbenzene	105	10.158	10.158	(0.971)	266199	45.6782	45.67
81	sec-Butylbenzene	105	10.303	10.303	(0.985)	303656	45.3800	45.38
82	p-Isopropyltoluene	119	10.425	10.425	(0.997)	273024	45.2872	45.28
83	1,3-Dichlorobenzene	146	10.403	10.403	(0.995)	152118	46.3046	46.30
84	1,4-Dichlorobenzene	146	10.476	10.477	(1.002)	155589	46.4376	46.43
87	n-Butylbenzene	91	10.772	10.772	(1.030)	254820	45.1503	45.15
88	1,2-Dichlorobenzene	146	10.795	10.798	(1.032)	145939	46.2420	46.24
89	1,2-Dibromo-3-Chloropropane	75	11.464	11.464	(1.096)	14627	45.0653	45.06
90	1,2,4-Trichlorobenzene	180	12.155	12.152	(1.162)	93890	45.1489	45.14
91	Hexachlorobutadiene	225	12.287	12.290	(1.175)	45122	45.3586	45.35
92	Naphthalene	128	12.367	12.370	(1.183)	210650	44.7113	44.71
93	1,2,3-Trichlorobenzene	182	12.570	12.570	(1.202)	75982	44.3047	44.30
135	1,4-Dioxane	88	6.448	6.448	(1.256)	11466	1041.15	1041.14(A)
146	Methyl acetate	43	2.667	2.667	(0.520)	47651	43.2314	43.23(TM)
138	Freon TF	101	2.589	2.593	(0.505)	61266	44.1610	44.16
139	Diethyl ether	59	2.377	2.377	(0.463)	49622	49.9661	49.96
140	1,3-Butadiene	54	1.564	1.560	(0.305)	39081	44.4127	44.41
141	Cyclohexane	56	5.113	5.107	(0.996)	106180	43.7732	43.77
147	Methylcyclohexane	83	6.252	6.248	(1.068)	102076	45.2295	45.22
132	n-Butanol	56	6.248	6.252	(1.217)	40920	943.348	943.34(TM)
131	Methyl Acrylate	55	4.689	4.686	(0.914)	74381	49.7563	49.75
133	Ethyl Acrylate	55	6.223	6.223	(1.212)	181619	47.3824	47.38
136	n-Hexane	57	3.673	3.673	(0.716)	73886	42.5663	42.56
142	Tetrahydrofuran	42	4.863	4.859	(0.947)	24144	95.0148	95.01
148	Tert-butyl alcohol	59	3.239	3.236	(0.631)	84515	840.666	840.66
149	Isopropyl alcohol	45	2.814	2.808	(0.548)	71559	1040.89	1040.89
151	4-Methyl-2-pentanol	45	7.473	7.473	(0.883)	523832	954.944	954.94
166	1,2,3-Trimethylbenzene	105	10.518	10.518	(1.006)	243835	43.1038	43.10
167	Ethanol	45	2.310	2.310	(0.450)	11845	1064.25	1064.24
172	tert-Butyl formate	59	3.239	3.236	(0.631)	84515	100.266	100.26
173	3,3-Dimethyl-1-butanol	57	8.042	8.043	(0.950)	134546	984.001	984.00
174	tert-Amyl methyl ether	73	5.580	5.576	(1.087)	199364	47.9235	47.92
175	tert-Butyl ethyl ether	59	4.377	4.377	(0.853)	215092	46.3058	46.30
157	2-Methylnaphthalene	142	13.341	13.341	(1.276)	86847	50.6476	50.64
156	Diisopropyl ether	45	3.949	3.949	(0.769)	255250	47.1858	47.18
171	1-Methylnaphthalene	142	13.525	13.521	(1.293)	73172	48.2645	48.26
130	Ethyl Acetate	43	3.946	3.943	(0.769)	437922	46.1611	46.16
176	tert-Amyl alcohol	59	5.509	5.509	(1.073)	81575	1013.35	1013.35(A)
160	Epichlorohydrin	57	6.914	6.914	(1.181)	18383	186.359	186.35
161	Butyl acrylate	55	8.997	8.997	(1.063)	170560	48.0336	48.03
182	Isobutylene	56	1.953	1.953	(0.381)	10388	46.0776	46.07(AM)
183	Isopropyl Acetate	43	5.573	5.573	(0.952)	216526	47.3702	47.37(A)
184	n-Amyl acetate	43	9.194	9.194	(1.086)	152210	44.3932	44.39(A)
185	Acetaldehyde	44	1.628	1.631	(0.317)	45485	207.176	207.17(AM)
186	n-Butyl acetate	43	7.969	7.965	(0.941)	129734	52.3703	52.37(A)
187	2-Etyhlhexyl Acrylate	55	12.319	12.319	(1.178)	75925	53.9246	53.92(A)
188	Tetrahydrothiophene	60	7.956	7.959	(0.940)	81426	49.2748	49.27(A)
189	sec-Butyl Ether	57	7.406	7.406	(0.875)	66955	47.9291	47.92(A)
190	Isoprene	39	2.396	2.400	(0.467)	18252	43.6481	43.64(AM)
191	2-Chloropropene	41	2.149	2.146	(0.419)	104812	44.7230	44.72(A)

M	94 1,2-Dichloroethylene (total)	96		142032	92.0397	92.03
M	95 Xylenes (total)	106		361590	139.748	139.74

QC Flag Legend

T - Target compound detected outside RT window.
A - Target compound detected but, quantitated amount
    exceeded maximum amount.
M - Compound response manually integrated.



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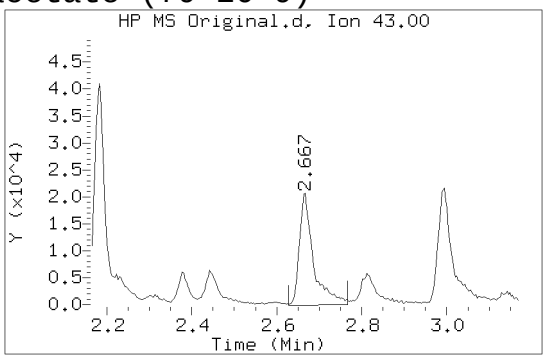
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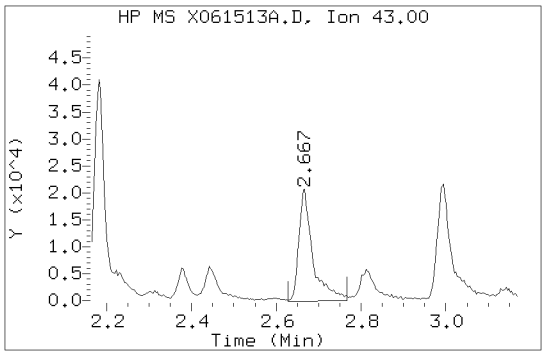
Methyl acetate (79-20-9)

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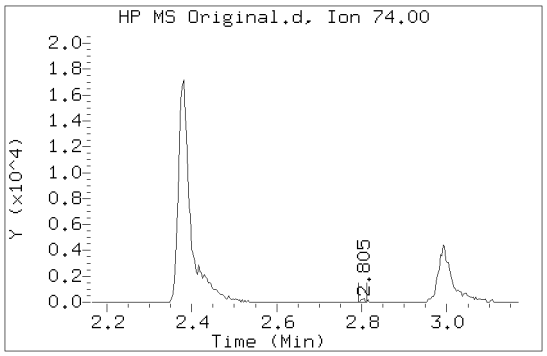
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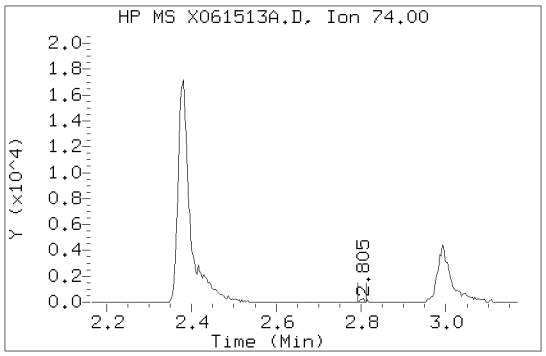
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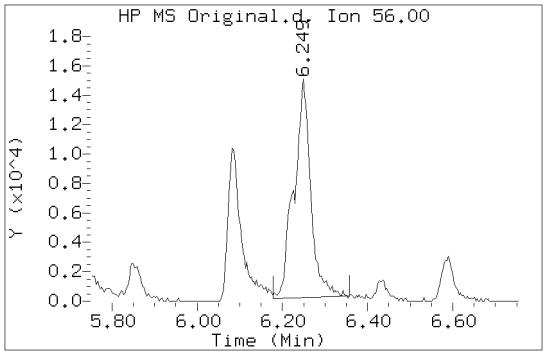
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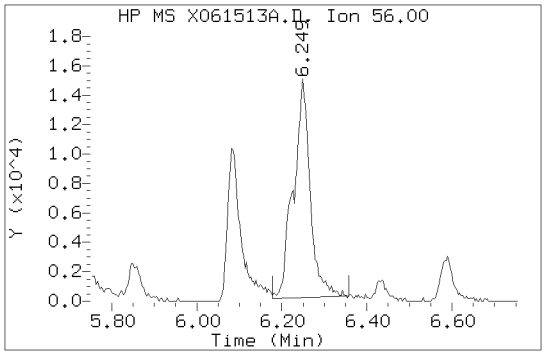
n-Butanol (71-36-3)

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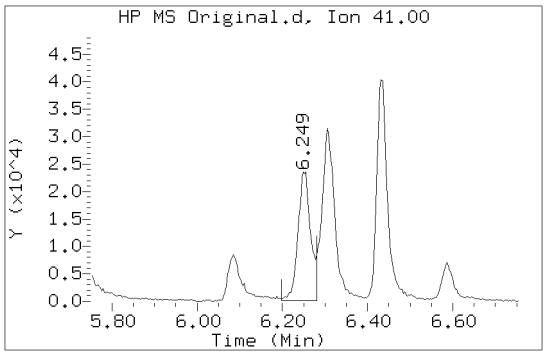
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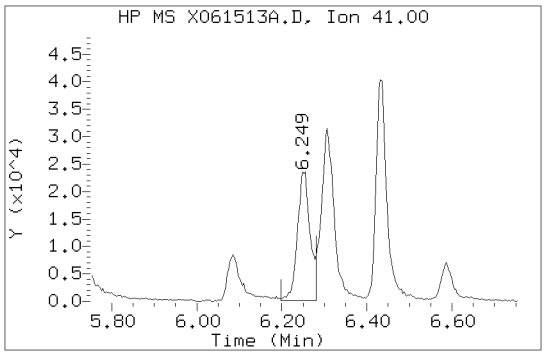
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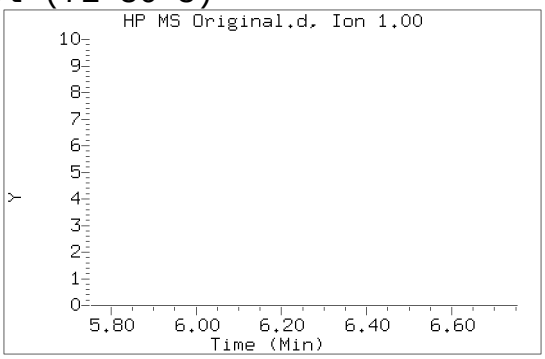
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n-Butanol (71-36-3)

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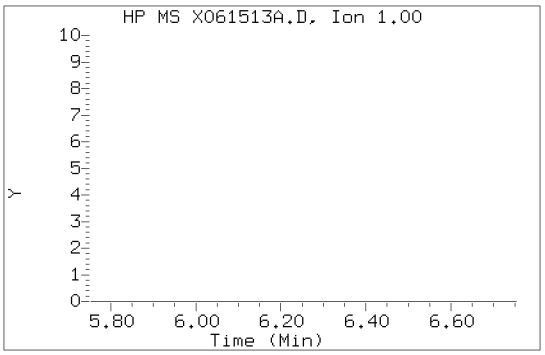
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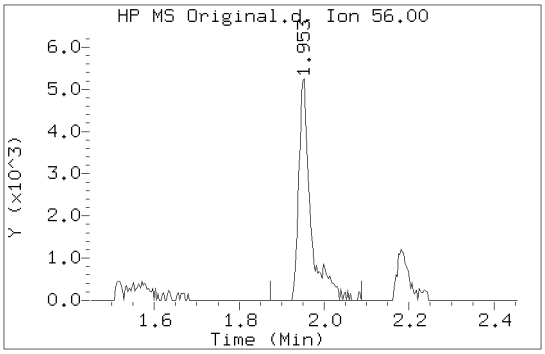


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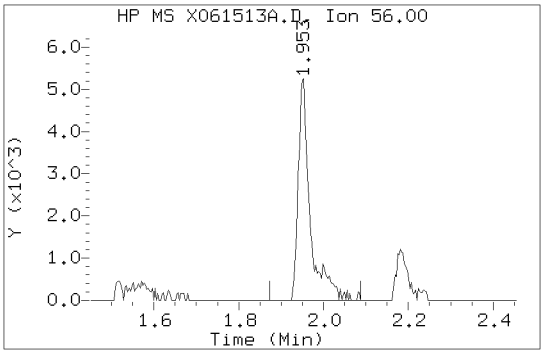
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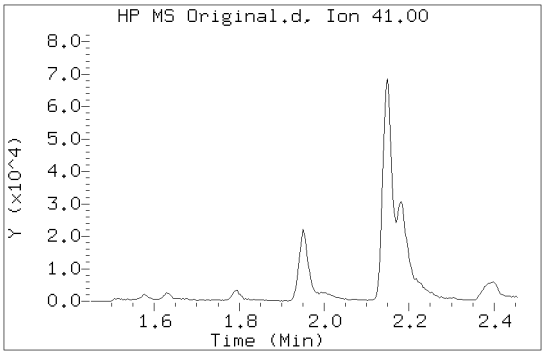
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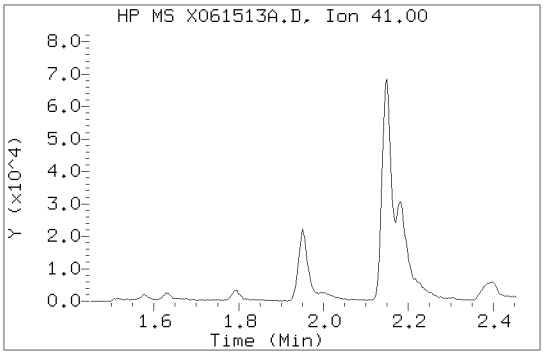
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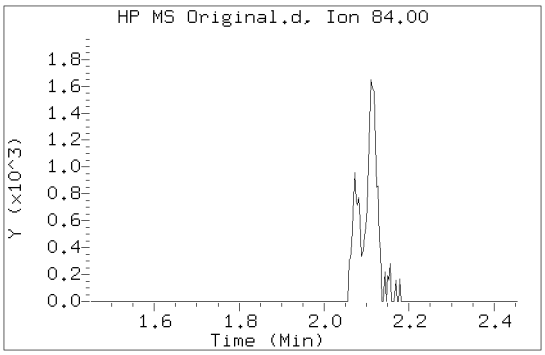
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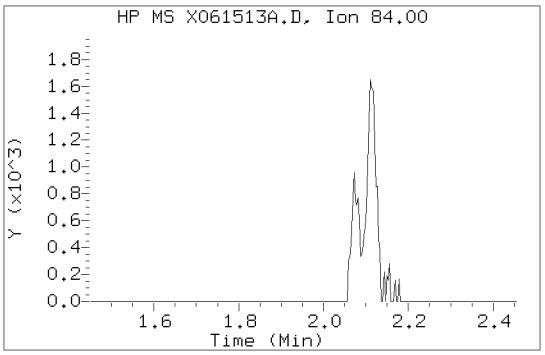
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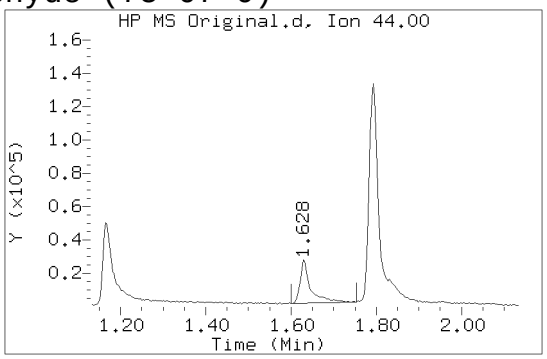
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Acetaldehyde (75-07-0)

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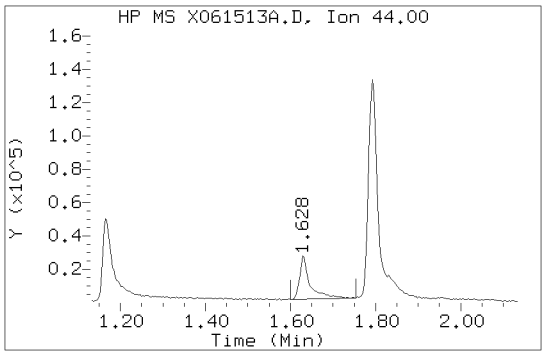
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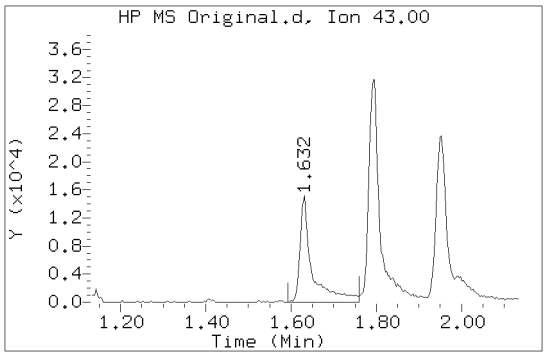
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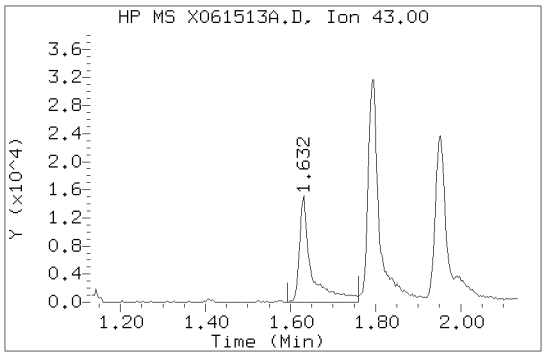
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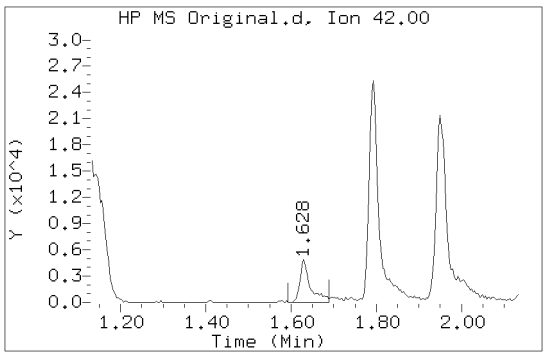
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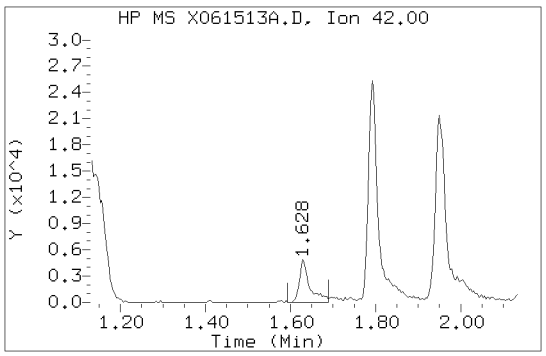
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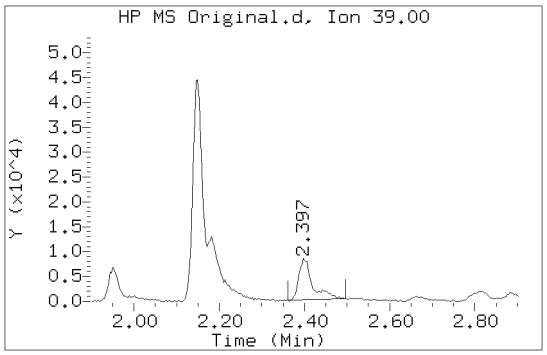


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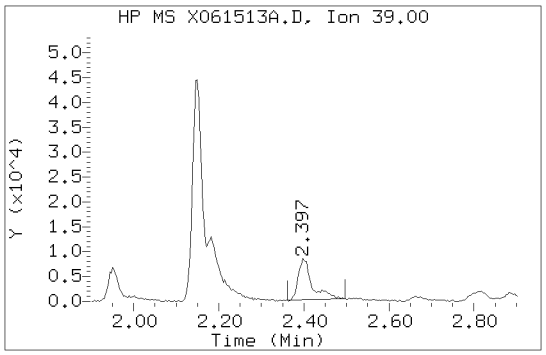
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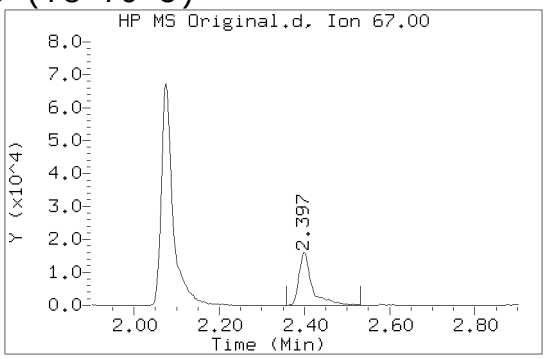
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Isoprene (78-79-5)

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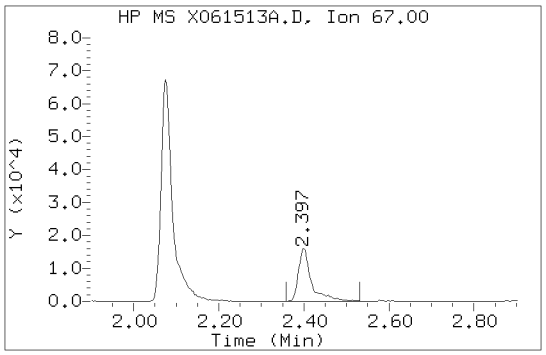
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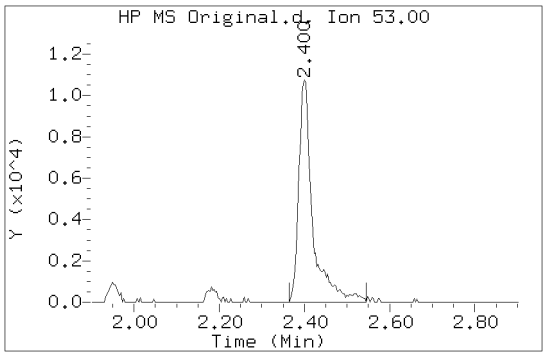
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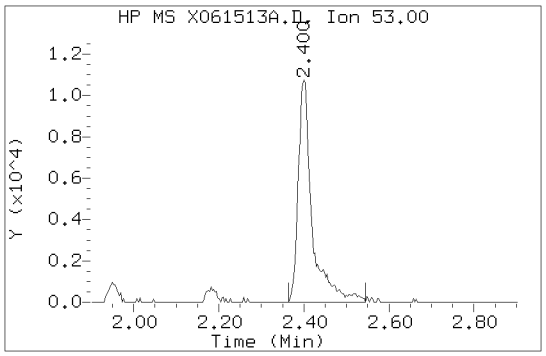
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08:45
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zaid



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RawData

<textMethods>

Workorder

HS24060293

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 18/24

07/15/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Data File: \\nahstws005\Target\chem\voa7.i\P240615.b\X061512.D Page 1
Report Date: 17-Jun-2024 10:52

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa7.i\P240615.b\X061512.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 15-JUN-2024 17:50
Operator : AP Inst ID: voa7.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240615.b\bfb.m
Meth Date : 25-Mar-2024 14:28 apoluri Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 12 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAHSTW7066

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	2.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/l)	TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
9.474	9.474	(0.000)	95	80376			0.00- 100.00	100.00
9.474	9.474	(0.000)	50	15549			15.00- 40.00	19.35
9.474	9.474	(0.000)	75	40272			30.00- 60.00	50.10
9.474	9.474	(0.000)	96	5267			5.00- 9.00	6.55
9.474	9.474	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
9.474	9.474	(0.000)	174	62496			50.00- 0.00	77.75
9.474	9.474	(0.000)	175	5536			5.00- 9.00	8.86
9.474	9.474	(0.000)	176	60184			95.00- 101.00	96.30
9.474	9.474	(0.000)	177	4246			5.00- 9.00	7.06

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061514.D Page 1
Report Date: 12-Jul-2024 11:43

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061514.D
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Operator : AP Inst ID: voa7.i
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Misc Info : HS220328V7;WATER;0;1;
Comment   :
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Meth Date : 12-Jul-2024 11:43 voa7.i Quant Type: ISTD
Cal Date : 15-JUN-2024 16:41 Cal File: X061509.D
Als bottle: 14 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	5.130	5.130	(1.000)	144011	50.0000	
2 Dichlorodifluoromethane	85	1.294	1.294	(0.252)	28250	18.2789	18.27
159 Dichlorofluoromethane	67	2.075	2.075	(0.405)	52112	17.3769	17.37
3 Chloromethane	50	1.451	1.448	(0.283)	43801	19.1346	19.13
4 Propionitrile	54	4.670	4.670	(0.910)	39272	195.835	195.83
5 Vinyl Chloride	62	1.535	1.535	(0.299)	38363	18.7931	18.79
6 Bromomethane	94	1.805	1.805	(0.352)	22247	19.4669	19.46
7 Chloroethane	64	1.895	1.895	(0.369)	23960	19.1559	19.15
8 Trichlorofluoromethane	101	2.110	2.114	(0.411)	48251	18.1190	18.11
9 Acrolein	56	2.519	2.512	(0.491)	1764	43.4749	43.47
10 Acetone	43	2.664	2.663	(0.519)	20131	36.5883	36.58
11 1,1-Dichloroethene	96	2.593	2.593	(0.505)	28468	19.3083	19.30
12 Isobutyl Alcohol	43	5.573	5.573	(1.086)	96059	390.067	390.06
13 Acetonitrile	39	2.956	2.959	(0.576)	41941	184.073	184.07
14 Allyl Chloride	41	2.956	2.959	(0.576)	91261	19.1311	19.13
15 Iodomethane	142	2.741	2.741	(0.534)	67683	38.4088	38.40
16 Acrylonitrile	53	3.381	3.377	(0.659)	19437	37.8292	37.82
17 Methylene Chloride	84	3.091	3.094	(0.603)	33820	18.7862	18.78
18 Methyl tert-butyl ether	73	3.377	3.377	(0.658)	76207	18.8054	18.80
19 Carbon Disulfide	76	2.795	2.795	(0.545)	174585	38.0329	38.03

20 trans-1,2-Dichloroethene	96	3.381	3.377 (0.659)	27373	17.6089	17.60
21 Vinyl Acetate	43	4.660	4.657 (0.908)	35920	42.2382	42.23

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
22	1,1-Dichloroethane	63	3.866	3.863	(0.754)	60542	17.8823	17.88
23	Chloroprene	53	3.966	3.966	(0.773)	48738	18.1020	18.10
24	2-Butanone	43	4.589	4.586	(0.895)	28853	39.8083	39.80
25	Methacrylonitrile	41	2.149	2.149	(0.419)	41981	17.4908	17.49
26	2,2-Dichloropropane	77	4.532	4.535	(0.883)	50324	17.5112	17.51
27	cis-1,2-Dichloroethene	96	4.544	4.544	(0.886)	33180	18.9714	18.97
28	Chloroform	83	4.901	4.901	(0.956)	59404	18.8866	18.88
29	Bromochloromethane	128	4.805	4.808	(0.937)	16661	19.6563	19.65
$ 30	Dibromofluoromethane	113	5.072	5.072	(0.989)	74346	48.3561	48.35
31	1,1,1-Trichloroethane	97	5.072	5.072	(0.989)	50702	18.7552	18.75
32	1,1-Dichloropropene	75	5.245	5.245	(0.896)	44398	19.2087	19.20
33	1,2-Dichloroethane	62	5.493	5.490	(0.938)	48923	18.8153	18.81
34	Carbon Tetrachloride	117	5.239	5.236	(0.895)	41442	18.2553	18.25
$ 35	1,2-Dichloroethane-d4	65	5.416	5.416	(1.056)	98398	47.9400	47.94
* 36	1,4-Difluorobenzene	114	5.853	5.853	(1.000)	236601	50.0000	
37	Benzene	78	5.458	5.457	(0.932)	125449	19.5953	19.59
38	Trichloroethene	130	6.088	6.088	(1.040)	31135	19.0161	19.01
39	Bromodichloromethane	83	6.570	6.570	(1.122)	45353	17.2176	17.21
40	Methyl Methacrylate	41	6.432	6.432	(1.254)	31000	19.0548	19.05
41	2-Chloroethylvinyl ether	63	6.853	6.856	(1.171)	26549	41.4266	41.42
42	1,2-Dichloropropane	63	6.313	6.310	(1.079)	35252	19.1604	19.16
43	2-Nitropropane	43	6.798	6.798	(1.325)	9692	18.9822	18.98
44	Dibromomethane	93	6.416	6.419	(1.096)	19871	19.1397	19.13
45	4-Methyl-2-Pentanone	43	7.130	7.126	(0.842)	68032	41.3142	41.31
46	cis-1,3-Dichloropropene	75	6.975	6.978	(1.192)	46535	18.2129	18.21
* 47	Chlorobenzene-d5	117	8.467	8.467	(1.000)	214543	50.0000	
$ 48	Toluene-d8	98	7.207	7.207	(0.851)	271130	52.3425	52.34
49	Ethyl Methacrylate	69	8.040	8.039	(1.374)	39899	19.6602	19.66
50	Toluene	91	7.265	7.265	(0.858)	130329	20.2180	20.21
51	trans-1,3-Dichloropropene	75	6.975	6.978	(1.192)	46535	18.2129	18.21
52	2-Hexanone	43	7.859	7.863	(0.928)	45121	39.7983	39.79
53	1,1,2-Trichloroethane	83	7.641	7.641	(0.902)	24755	20.2860	20.28
54	1,3-Dichloropropane	76	7.782	7.782	(0.919)	52285	19.9865	19.98
55	Dibromochloromethane	129	7.975	7.975	(0.942)	32267	18.3621	18.36
56	Tetrachloroethene	164	7.740	7.737	(0.914)	24089	19.7694	19.76
57	1,2-Dibromoethane	107	8.075	8.075	(0.954)	25288	19.4612	19.46
58	1-Chlorohexane	55	8.470	8.470	(1.447)	33865	19.3418	19.34
59	Chlorobenzene	112	8.493	8.493	(1.003)	84241	19.9202	19.92
60	1,1,1,2-Tetrachloroethane	131	8.564	8.563	(1.011)	28939	19.7280	19.72
61	Ethylbenzene	106	8.583	8.583	(1.014)	43205	19.8417	19.84
62	m,p-Xylenes	106	8.683	8.686	(1.025)	110589	40.5713	40.57
63	o-Xylene	106	9.023	9.023	(1.066)	53821	20.3451	20.34
64	Styrene	104	9.036	9.039	(1.067)	94467	20.2726	20.27
66	Bromoform	173	9.203	9.207	(1.087)	20500	18.5011	18.50
67	Isopropylbenzene	105	9.339	9.338	(1.103)	135790	20.0284	20.02
68	1,1,2,2-Tetrachloroethane	83	9.612	9.608	(0.919)	38490	20.8659	20.86
$ 69	4-Bromofluorobenzene	95	9.474	9.477	(1.119)	106150	51.1888	51.18
* 70	1,4-Dichlorobenzene-d4	152	10.457	10.457	(1.000)	108099	50.0000	
71	1,2,3-Trichloropropane	75	9.650	9.650	(0.923)	41820	20.0369	20.03
72	trans-1,4-Dichloro-2-butene	53	9.657	9.660	(1.140)	8615	18.5376	18.53
73	n-Propylbenzene	91	9.689	9.692	(0.927)	164119	20.3505	20.35
74	Bromobenzene	156	9.605	9.605	(0.919)	36640	20.7584	20.75

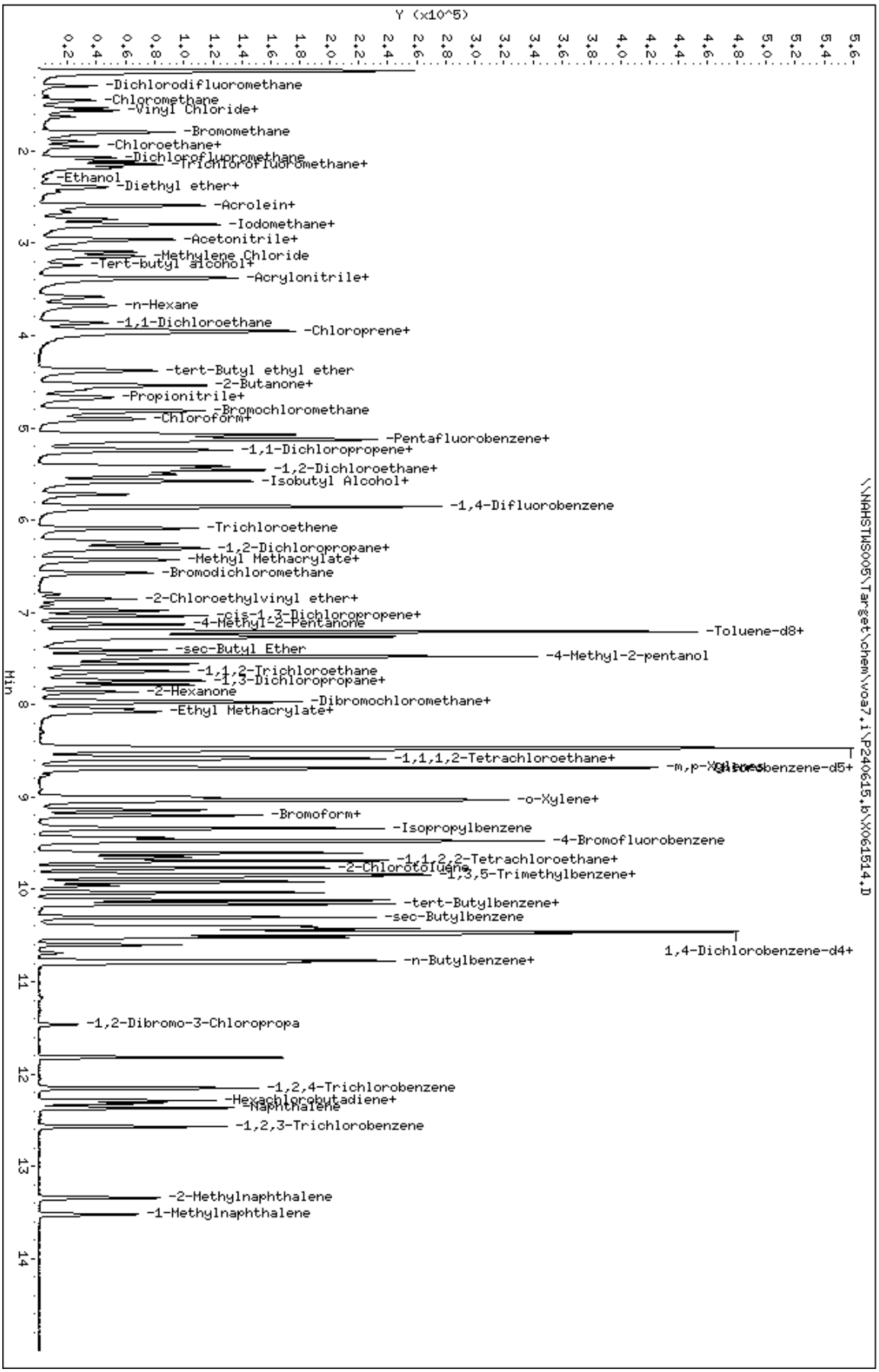
75	1,3,5-Trimethylbenzene	105	9.840	9.840 (0.941)	117380	20.3430	20.34
76	2-Chlorotoluene	91	9.766	9.766 (0.934)	102473	20.6459	20.64

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
77	4-Chlorotoluene	91	9.856	9.859	(0.943)	120085	20.5568	20.55
78	tert-Butylbenzene	119	10.117	10.116	(0.967)	98137	20.4980	20.49
79	1,2,4-Trimethylbenzene	105	10.158	10.158	(0.971)	118934	20.6594	20.65
81	sec-Butylbenzene	105	10.303	10.303	(0.985)	137297	20.9483	20.94
82	p-Isopropyltoluene	119	10.425	10.428	(0.997)	120155	20.3476	20.34
83	1,3-Dichlorobenzene	146	10.403	10.403	(0.995)	67374	20.7636	20.76
84	1,4-Dichlorobenzene	146	10.477	10.480	(1.002)	68519	20.5307	20.53
87	n-Butylbenzene	91	10.773	10.776	(1.030)	112890	20.3076	20.30
88	1,2-Dichlorobenzene	146	10.798	10.798	(1.033)	63623	20.3693	20.36
89	1,2-Dibromo-3-Chloropropane	75	11.464	11.464	(1.096)	6132	19.1950	19.19
90	1,2,4-Trichlorobenzene	180	12.155	12.155	(1.162)	41372	20.6648	20.66
91	Hexachlorobutadiene	225	12.290	12.287	(1.175)	20213	21.0383	21.03
92	Naphthalene	128	12.367	12.370	(1.183)	91442	19.7197	19.71
93	1,2,3-Trichlorobenzene	182	12.570	12.570	(1.202)	33736	19.9863	19.98
135	1,4-Dioxane	88	6.451	6.445	(1.258)	5184	436.859	436.85(A)
146	Methyl acetate	43	2.664	2.991	(0.519)	20193	16.7670	16.76(M)
138	Freon TF	101	2.596	2.589	(0.506)	26831	18.4699	18.46
139	Diethyl ether	59	2.381	2.380	(0.464)	20302	19.3378	19.33
140	1,3-Butadiene	54	1.564	1.564	(0.305)	17018	18.7287	18.72
141	Cyclohexane	56	5.110	5.113	(0.996)	49080	18.7691	18.76
147	Methylcyclohexane	83	6.252	6.252	(1.068)	36803	17.0055	17.00
132	n-Butanol	56	6.249	6.248	(1.218)	13256	289.079	289.07
131	Methyl Acrylate	55	4.686	4.689	(0.914)	32891	20.0639	20.06
133	Ethyl Acrylate	55	6.220	6.223	(1.212)	74143	18.2976	18.29
136	n-Hexane	57	3.676	3.676	(0.717)	33268	18.5489	18.54
142	Tetrahydrofuran	42	4.860	4.859	(0.947)	10135	38.6185	38.61
148	Tert-butyl alcohol	59	3.239	3.236	(0.631)	39391	370.642	370.64
149	Isopropyl alcohol	45	2.815	2.815	(0.549)	31824	420.229	420.22
151	4-Methyl-2-pentanol	45	7.474	7.477	(0.883)	222293	391.298	391.29
166	1,2,3-Trimethylbenzene	105	10.519	10.518	(1.006)	100904	18.1229	18.12
167	Ethanol	45	2.303	2.316	(0.449)	5124	401.978	401.97
172	tert-Butyl formate	59	3.239	3.236	(0.631)	39391	42.8187	42.81
173	3,3-Dimethyl-1-butanol	57	8.043	8.039	(0.950)	58237	426.816	426.81
174	tert-Amyl methyl ether	73	5.580	5.580	(1.088)	86189	19.4932	19.49
175	tert-Butyl ethyl ether	59	4.381	4.377	(0.854)	93442	19.0292	19.02
157	2-Methylnaphthalene	142	13.342	13.338	(1.276)	39247	23.2547	23.25
156	Diisopropyl ether	45	3.950	3.946	(0.770)	105115	18.3814	18.38
171	1-Methylnaphthalene	142	13.522	13.521	(1.293)	33071	22.1630	22.16
130	Ethyl Acetate	43	3.946	3.946	(0.769)	184135	18.4458	18.44
176	tert-Amyl alcohol	59	5.512	5.515	(1.075)	36184	410.780	410.77(A)
160	Epichlorohydrin	57	6.914	6.914	(1.181)	7298	71.9767	71.97
161	Butyl acrylate	55	8.998	8.998	(1.063)	69916	19.3425	19.34
182	Isobutylene	56	1.953	1.950	(0.381)	3854	16.9133	16.91(AM)
183	Isopropyl Acetate	43	5.573	5.573	(0.952)	96059	19.8633	19.86(A)
184	n-Amyl acetate	43	9.197	9.194	(1.086)	65205	18.8586	18.85(A)
185	Acetaldehyde	44	1.628	1.628	(0.317)	31161	132.751	132.75(A)
186	n-Butyl acetate	43	7.969	7.969	(0.941)	55270	21.2371	21.23(A)
187	2-Etyhlhexyl Acrylate	55	12.319	12.319	(1.178)	26113	21.8375	21.83(A)
188	Tetrahydrothiophene	60	7.956	7.959	(0.940)	34600	20.3132	20.31(A)
189	sec-Butyl Ether	57	7.406	7.406	(0.875)	31766	20.8307	20.83(A)
190	Isoprene	39	2.400	2.397	(0.468)	7963	18.2275	18.22(A)
191	2-Chloropropene	41	2.149	2.149	(0.419)	41981	16.9449	16.94(A)

M	94 1,2-Dichloroethylene (total)	96		60553	36.5803	36.58
M	95 Xylenes (total)	106		164410	60.9164	60.91

QC Flag Legend

A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.



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Sample Info: VLCSW-240615;VLCSW-240615;3;LCS
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Instrument: voa7,i
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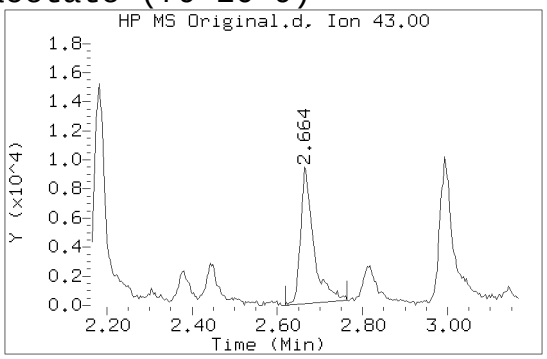
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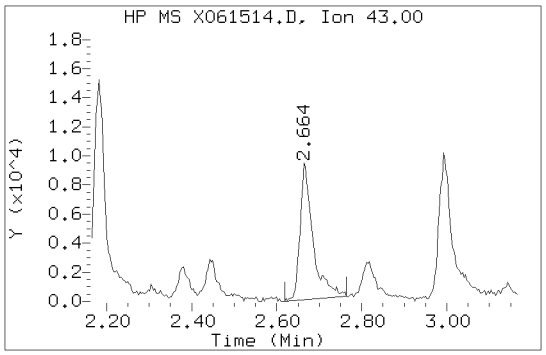
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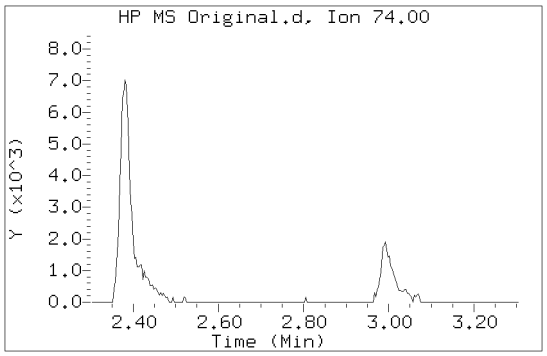
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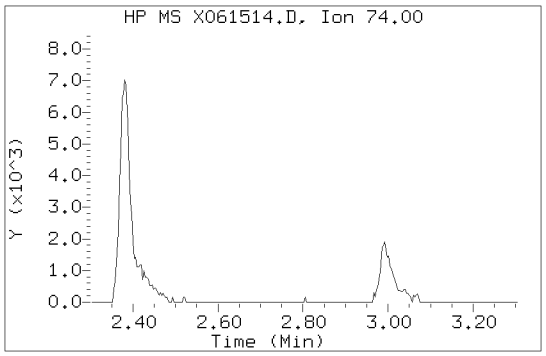
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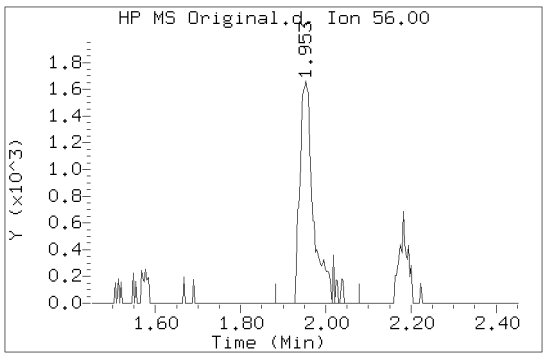
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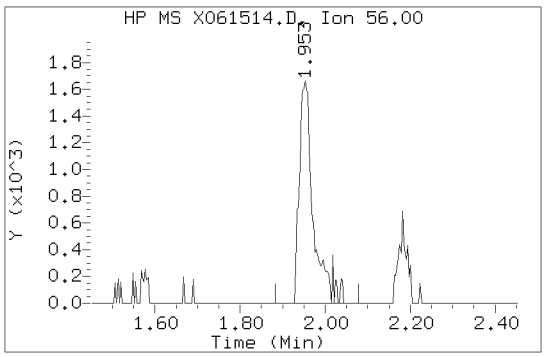
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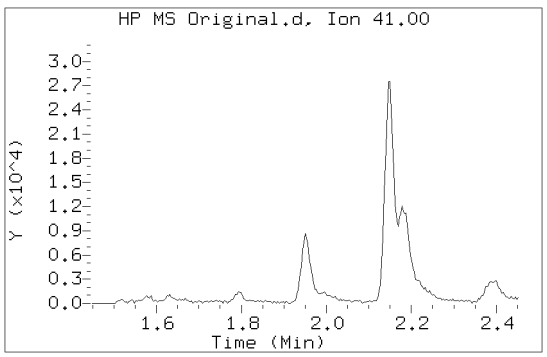
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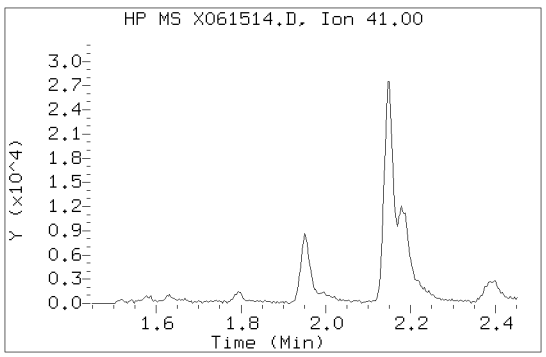
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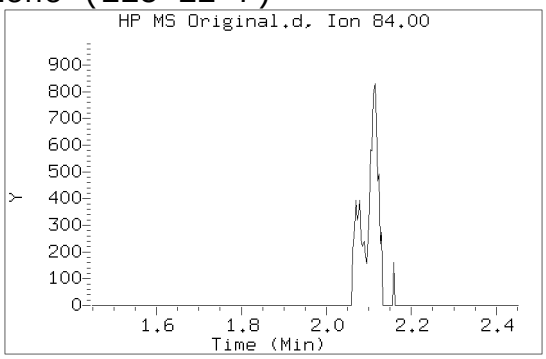
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Isobutylene (115-11-7)

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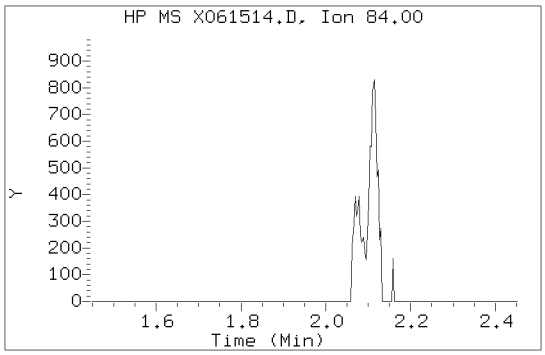
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Report Date: 12-Jul-2024 11:38

ALS Laboratory Group

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Operator : AP Inst ID: voa7.i
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Misc Info : HS220328V7;WATER;0;1;
Comment   :
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Meth Date : 12-Jul-2024 11:38 voa7.i Quant Type: ISTD
Cal Date : 15-JUN-2024 17:04 Cal File: X061510.D
Als bottle: 14 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	5.129	5.133	(1.000)	134840	50.0000	
2 Dichlorodifluoromethane	85	1.297	1.294	(0.253)	27267	18.8538	18.85
159 Dichlorofluoromethane	67	2.075	2.075	(0.405)	51945	18.4993	18.49
3 Chloromethane	50	1.451	1.448	(0.283)	40936	19.0975	19.09
4 Propionitrile	54	4.670	4.670	(0.910)	40151	214.738	214.73
5 Vinyl Chloride	62	1.535	1.535	(0.299)	36731	19.2205	19.22
6 Bromomethane	94	1.808	1.808	(0.353)	21849	20.4869	20.48
7 Chloroethane	64	1.898	1.895	(0.370)	23177	19.8039	19.80
8 Trichlorofluoromethane	101	2.114	2.113	(0.412)	48409	19.4405	19.44
9 Acrolein	56	2.509	2.519	(0.489)	1898	49.9590	49.95
10 Acetone	43	2.667	2.667	(0.520)	21500	42.5747	42.57
11 1,1-Dichloroethene	96	2.589	2.593	(0.505)	27396	19.8407	19.84
12 Isobutyl Alcohol	43	5.573	5.573	(1.086)	97366	423.803	423.80
13 Acetonitrile	39	2.956	2.962	(0.576)	42300	198.764	198.76
14 Allyl Chloride	41	2.959	2.956	(0.577)	89248	20.0242	20.02
15 Iodomethane	142	2.741	2.744	(0.534)	66808	40.2823	40.28
16 Acrylonitrile	53	3.380	3.380	(0.659)	20957	43.7020	43.70
17 Methylene Chloride	84	3.094	3.094	(0.603)	33893	20.2346	20.23
18 Methyl tert-butyl ether	73	3.380	3.380	(0.659)	74807	19.7015	19.70
19 Carbon Disulfide	76	2.795	2.795	(0.545)	165778	38.5787	38.57

20 trans-1,2-Dichloroethene	96	3.374	3.374 (0.658)	28106	19.3362	19.33
21 Vinyl Acetate	43	4.657	4.657 (0.908)	35545	44.8319	44.83

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
22	1,1-Dichloroethane	63	3.863	3.863	(0.753)	57588	18.1667	18.16
23	Chloroprene	53	3.966	3.965	(0.773)	48078	19.0732	19.07
24	2-Butanone	43	4.589	4.589	(0.895)	28578	42.3581	42.35
25	Methacrylonitrile	41	2.149	2.149	(0.419)	44043	19.5980	19.59
26	2,2-Dichloropropane	77	4.531	4.535	(0.883)	48026	17.8482	17.84
27	cis-1,2-Dichloroethene	96	4.544	4.544	(0.886)	32448	19.8384	19.83
28	Chloroform	83	4.908	4.901	(0.957)	58032	19.7399	19.73
29	Bromochloromethane	128	4.805	4.808	(0.937)	15873	20.0076	20.00
$ 30	Dibromofluoromethane	113	5.072	5.072	(0.989)	73445	51.0926	51.09
31	1,1,1-Trichloroethane	97	5.072	5.075	(0.989)	47956	18.9461	18.94
32	1,1-Dichloropropene	75	5.245	5.245	(0.896)	42717	19.2075	19.20
33	1,2-Dichloroethane	62	5.493	5.490	(0.938)	48611	19.4439	19.44
34	Carbon Tetrachloride	117	5.232	5.236	(0.894)	39781	18.2142	18.21
$ 35	1,2-Dichloroethane-d4	65	5.416	5.416	(1.056)	98527	51.3704	51.37
* 36	1,4-Difluorobenzene	114	5.853	5.853	(1.000)	227658	50.0000	
37	Benzene	78	5.457	5.457	(0.932)	120397	19.5437	19.54
38	Trichloroethene	130	6.088	6.088	(1.040)	30603	19.4285	19.42
39	Bromodichloromethane	83	6.570	6.570	(1.122)	44516	17.5637	17.56
40	Methyl Methacrylate	41	6.432	6.432	(1.254)	31550	20.8659	20.86
41	2-Chloroethylvinyl ether	63	6.856	6.853	(1.171)	26772	43.4523	43.45
42	1,2-Dichloropropane	63	6.306	6.309	(1.077)	34244	19.3478	19.34
43	2-Nitropropane	43	6.801	6.798	(1.326)	9991	20.8639	20.86
44	Dibromomethane	93	6.416	6.416	(1.096)	19298	19.3184	19.31
45	4-Methyl-2-Pentanone	43	7.126	7.126	(0.842)	68888	43.4395	43.43
46	cis-1,3-Dichloropropene	75	6.975	6.978	(1.192)	45522	18.5092	18.50
* 47	Chlorobenzene-d5	117	8.467	8.467	(1.000)	207048	50.0000	
$ 48	Toluene-d8	98	7.207	7.203	(0.851)	262400	52.4946	52.49
49	Ethyl Methacrylate	69	8.043	8.039	(1.374)	40158	20.5480	20.54
50	Toluene	91	7.264	7.264	(0.858)	125366	20.1501	20.15
51	trans-1,3-Dichloropropene	75	6.975	6.978	(1.192)	45522	18.5092	18.50
52	2-Hexanone	43	7.862	7.859	(0.929)	44594	40.8292	40.82
53	1,1,2-Trichloroethane	83	7.637	7.637	(0.902)	24745	21.0425	21.04
54	1,3-Dichloropropane	76	7.782	7.782	(0.919)	51070	20.2379	20.23
55	Dibromochloromethane	129	7.975	7.978	(0.942)	31980	18.8576	18.85
56	Tetrachloroethene	164	7.737	7.737	(0.914)	23605	20.0747	20.07
57	1,2-Dibromoethane	107	8.071	8.071	(0.953)	25297	20.2063	20.20
58	1-Chlorohexane	55	8.470	8.467	(1.447)	32597	19.3498	19.34
59	Chlorobenzene	112	8.493	8.493	(1.003)	82669	20.2675	20.26
60	1,1,1,2-Tetrachloroethane	131	8.563	8.563	(1.011)	27860	19.6811	19.68
61	Ethylbenzene	106	8.583	8.583	(1.014)	42631	20.2987	20.29
62	m,p-Xylenes	106	8.682	8.682	(1.025)	107444	40.8518	40.85
63	o-Xylene	106	9.023	9.023	(1.066)	52289	20.4865	20.48
64	Styrene	104	9.039	9.039	(1.068)	92782	20.6427	20.64
66	Bromoform	173	9.203	9.206	(1.087)	20200	18.8903	18.89
67	Isopropylbenzene	105	9.338	9.338	(1.103)	132483	20.2515	20.25
68	1,1,2,2-Tetrachloroethane	83	9.608	9.608	(0.919)	37901	21.5039	21.50
$ 69	4-Bromofluorobenzene	95	9.473	9.473	(1.119)	103767	51.8788	51.87
* 70	1,4-Dichlorobenzene-d4	152	10.457	10.457	(1.000)	103396	50.0000	
71	1,2,3-Trichloropropane	75	9.647	9.650	(0.923)	42171	21.1567	21.15
72	trans-1,4-Dichloro-2-butene	53	9.660	9.660	(1.141)	8723	19.4410	19.44
73	n-Propylbenzene	91	9.689	9.689	(0.927)	157230	20.3831	20.38
74	Bromobenzene	156	9.605	9.605	(0.919)	35547	21.0582	21.05

75	1,3,5-Trimethylbenzene	105	9.840	9.837 (0.941)	114896	20.8133	20.81
76	2-Chlorotoluene	91	9.766	9.766 (0.934)	97432	20.5204	20.52

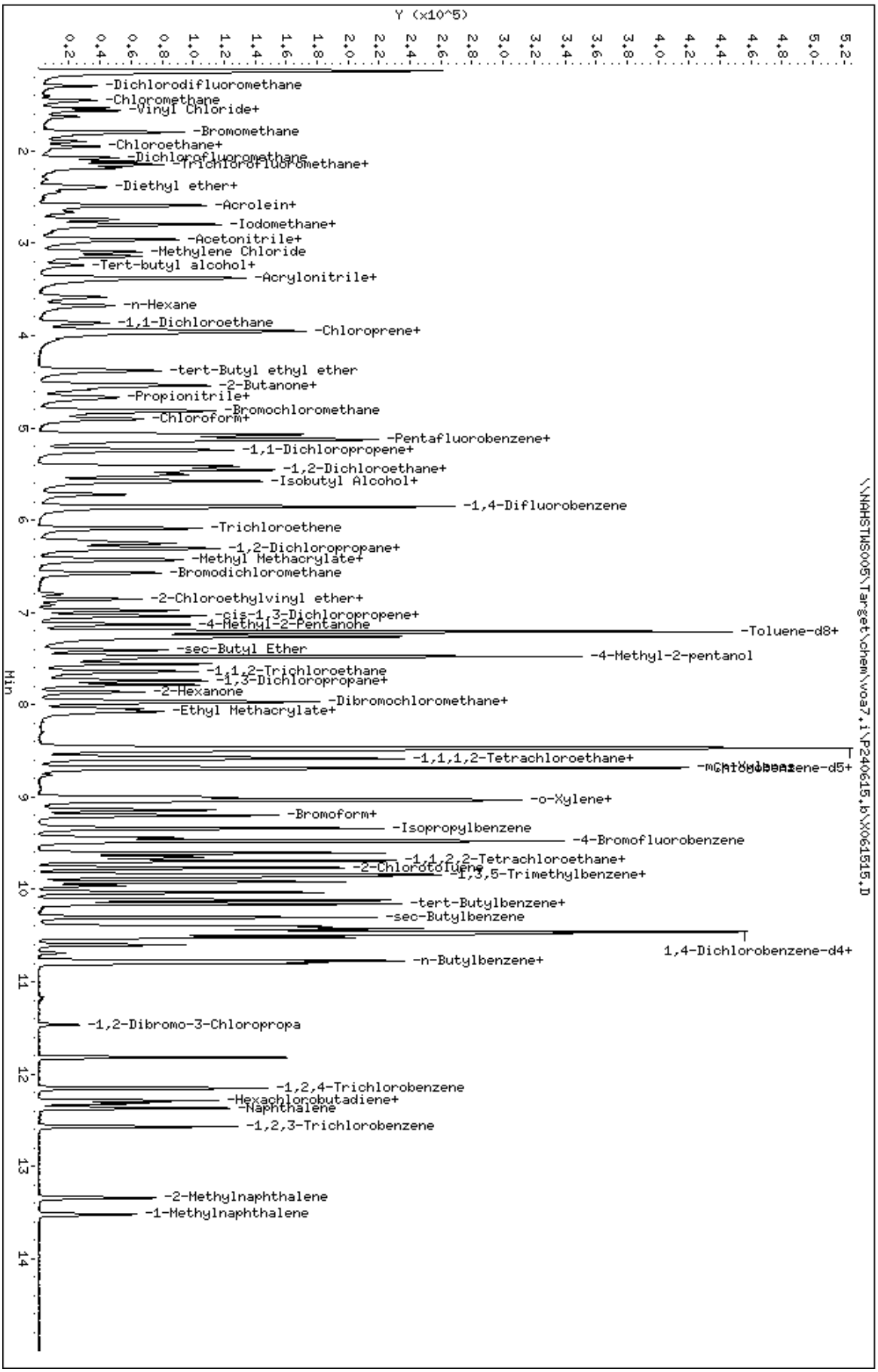
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Report Date: 12-Jul-2024 11:38

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
77	4-Chlorotoluene	91	9.859	9.859	(0.943)	116057	20.7738	20.77
78	tert-Butylbenzene	119	10.116	10.116	(0.967)	96071	20.9850	20.98
79	1,2,4-Trimethylbenzene	105	10.158	10.158	(0.971)	115153	20.9141	20.91
81	sec-Butylbenzene	105	10.303	10.303	(0.985)	132280	21.0995	21.09
82	p-Isopropyltoluene	119	10.425	10.425	(0.997)	116098	20.5531	20.55
83	1,3-Dichlorobenzene	146	10.403	10.403	(0.995)	64985	20.9394	20.93
84	1,4-Dichlorobenzene	146	10.480	10.476	(1.002)	67242	21.0761	21.07
87	n-Butylbenzene	91	10.772	10.772	(1.030)	108455	20.3973	20.39
88	1,2-Dichlorobenzene	146	10.798	10.795	(1.033)	62476	20.9173	20.91
89	1,2-Dibromo-3-Chloropropane	75	11.464	11.464	(1.096)	5863	19.1878	19.18
90	1,2,4-Trichlorobenzene	180	12.155	12.155	(1.162)	39069	20.4125	20.41
91	Hexachlorobutadiene	225	12.290	12.287	(1.175)	19161	20.8569	20.85
92	Naphthalene	128	12.370	12.367	(1.183)	87649	19.7615	19.76
93	1,2,3-Trichlorobenzene	182	12.570	12.570	(1.202)	31857	19.7315	19.73
135	1,4-Dioxane	88	6.448	6.448	(1.257)	5318	480.039	480.03(A)
146	Methyl acetate	43	2.667	2.667	(0.520)	20122	17.9048	17.90(M)
138	Freon TF	101	2.596	2.589	(0.506)	26261	19.2934	19.29
139	Diethyl ether	59	2.380	2.377	(0.464)	20833	21.1932	21.19
140	1,3-Butadiene	54	1.564	1.564	(0.305)	13841	16.3654	16.36
141	Cyclohexane	56	5.110	5.113	(0.996)	46419	18.9655	18.96
147	Methylcyclohexane	83	6.252	6.252	(1.068)	34193	16.4899	16.48
132	n-Butanol	56	6.252	6.248	(1.219)	12655	294.743	294.74
131	Methyl Acrylate	55	4.689	4.689	(0.914)	32942	21.5515	21.55
133	Ethyl Acrylate	55	6.223	6.223	(1.213)	72293	19.0544	19.05
136	n-Hexane	57	3.676	3.673	(0.717)	30241	18.0293	18.02
142	Tetrahydrofuran	42	4.859	4.863	(0.947)	10700	43.3562	43.35
148	Tert-butyl alcohol	59	3.239	3.239	(0.631)	39128	393.207	393.20
149	Isopropyl alcohol	45	2.814	2.814	(0.549)	33066	469.671	469.67
151	4-Methyl-2-pentanol	45	7.473	7.473	(0.883)	224457	409.704	409.70
166	1,2,3-Trimethylbenzene	105	10.518	10.518	(1.006)	97930	18.3888	18.38
167	Ethanol	45	2.310	2.310	(0.450)	5700	485.417	485.41
172	tert-Butyl formate	59	3.239	3.239	(0.631)	39128	45.5767	45.57
173	3,3-Dimethyl-1-butanol	57	8.043	8.042	(0.950)	56991	432.654	432.65
174	tert-Amyl methyl ether	73	5.580	5.580	(1.088)	85176	20.5842	20.58
175	tert-Butyl ethyl ether	59	4.380	4.377	(0.854)	90661	19.7186	19.71
157	2-Methylnaphthalene	142	13.345	13.341	(1.276)	35676	22.1003	22.10
156	Diisopropyl ether	45	3.953	3.949	(0.771)	103488	19.3277	19.32
171	1-Methylnaphthalene	142	13.521	13.525	(1.293)	30584	21.4286	21.42
130	Ethyl Acetate	43	3.946	3.946	(0.769)	186591	19.9515	19.95
176	tert-Amyl alcohol	59	5.512	5.509	(1.075)	35988	437.887	437.88(A)
160	Epichlorohydrin	57	6.914	6.914	(1.181)	7664	78.4329	78.43
161	Butyl acrylate	55	8.997	8.997	(1.063)	71545	20.4947	20.49
182	Isobutylene	56	1.950	1.953	(0.380)	3609	16.9152	16.91(AM)
183	Isopropyl Acetate	43	5.573	5.573	(0.952)	97366	20.9567	20.95(A)
184	n-Amyl acetate	43	9.194	9.194	(1.086)	65002	19.4623	19.46(A)
185	Acetaldehyde	44	1.628	1.628	(0.317)	22177	99.8741	99.87(A)
186	n-Butyl acetate	43	7.969	7.969	(0.941)	56338	22.4802	22.48(A)
187	2-Etyhlhexyl Acrylate	55	12.316	12.319	(1.178)	21422	19.2717	19.27(A)
188	Tetrahydrothiophene	60	7.956	7.956	(0.940)	34462	20.9699	20.96(A)
189	sec-Butyl Ether	57	7.409	7.406	(0.875)	31338	21.3492	21.34(A)
190	Isoprene	39	2.403	2.396	(0.469)	9736	23.6903	23.69(A)
191	2-Chloropropene	41	2.149	2.149	(0.419)	44043	18.9863	18.98(A)

M	94 1,2-Dichloroethylene (total)	96		60554	39.1746	39.17
M	95 Xylenes (total)	106		159733	61.3383	61.33

QC Flag Legend

A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa7,i\P240615,b\X061515,D
Date : 15-JUN-2024 19:21
Client ID: VLCSDW-240615
Sample Info: VLCSDW-240615;VLCSDW-240615;3;;LCSD
Purge Volume: 5.0
Column phase: DB624

Instrument: voa7,i
Operator: AP
Column diameter: 0.18

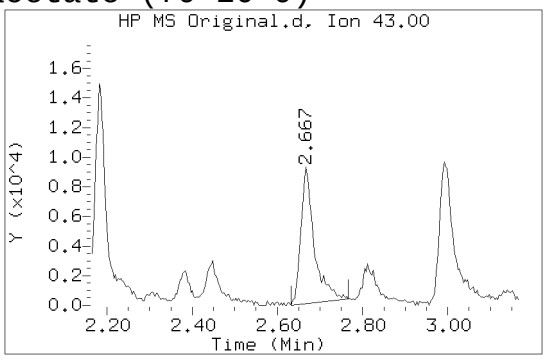
Page 1

Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061515.D
Inj Date : 15-JUN-2024 19:21
InstruID : voa7.i
LabSampID : VLCSDW-240615

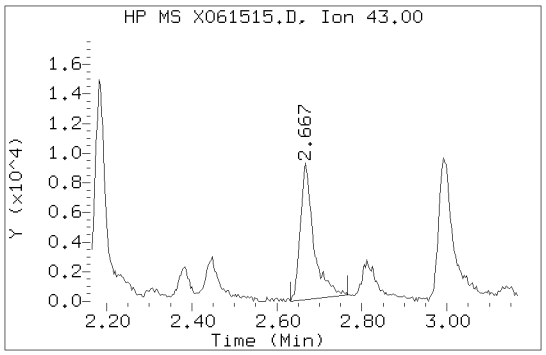
Methyl acetate (79-20-9)

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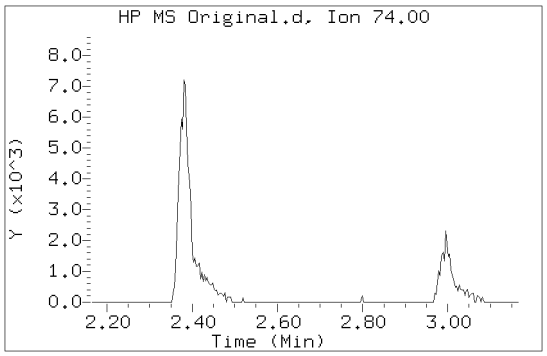
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12-Jul-2024
11:38
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zaid



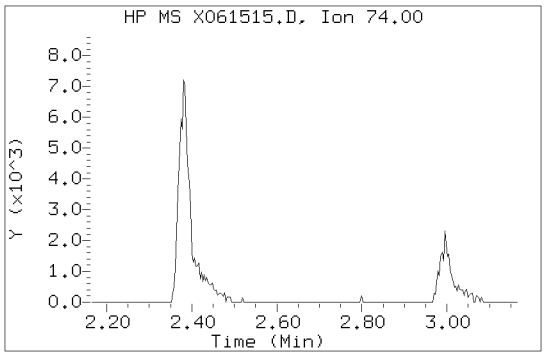
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BEFORE
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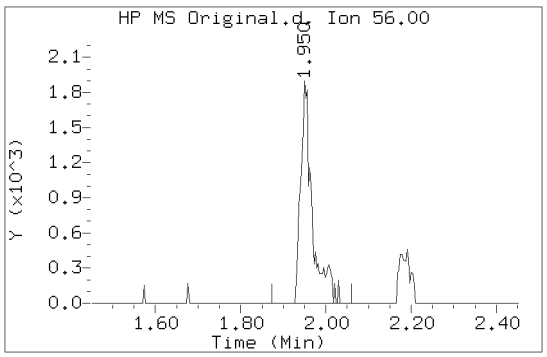
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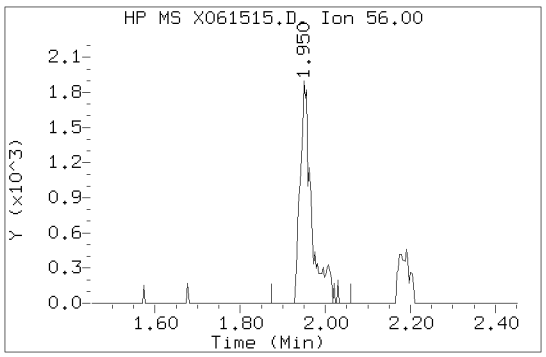
Isobutylene (115-11-7)

Reason Code:

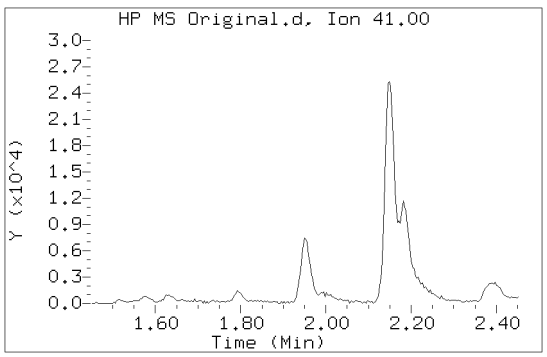
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12-Jul-2024
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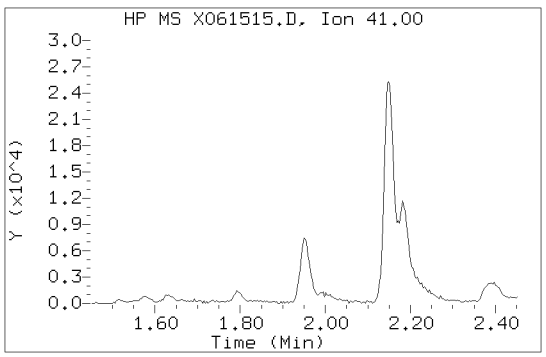
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BEFORE
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HEIGHT
0
12-Jul-2024
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AFTER
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11:38
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zaid



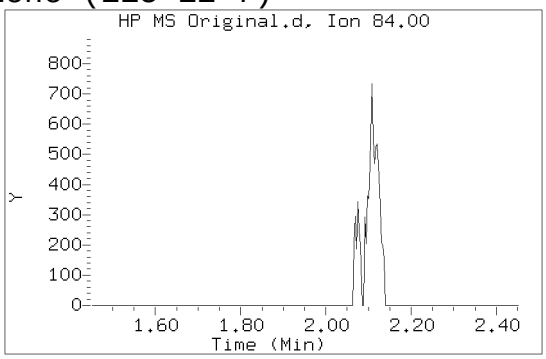
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Inj Date : 15-JUN-2024 19:21
InstruID : voa7.i
LabSampID : VLCSDW-240615

Isobutylene (115-11-7)

Reason Code:

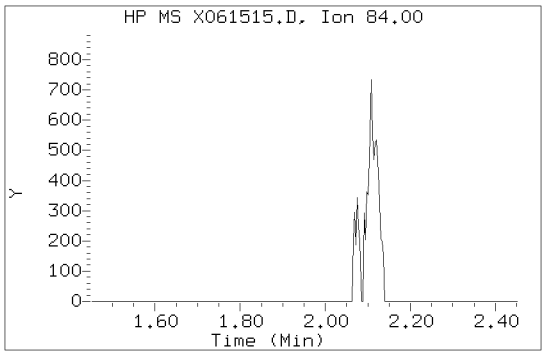
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AFTER

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HEIGHT
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12-Jul-2024
11:38
s
zaid



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061517.D Page 1
Report Date: 12-Jul-2024 11:39

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061517.D
Lab Smp Id: VBLKW-240615 Client Smp ID: VBLKW-240615
Inj Date : 15-JUN-2024 20:07
Operator : AP Inst ID: voa7.i
Smp Info : VBLKW-240615;VBLKW-240615;3;;BLANK
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240615.b\8260W.m
Meth Date : 12-Jul-2024 11:38 voa7.i Quant Type: ISTD
Cal Date : 15-JUN-2024 17:04 Cal File: X061510.D
Als bottle: 16 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

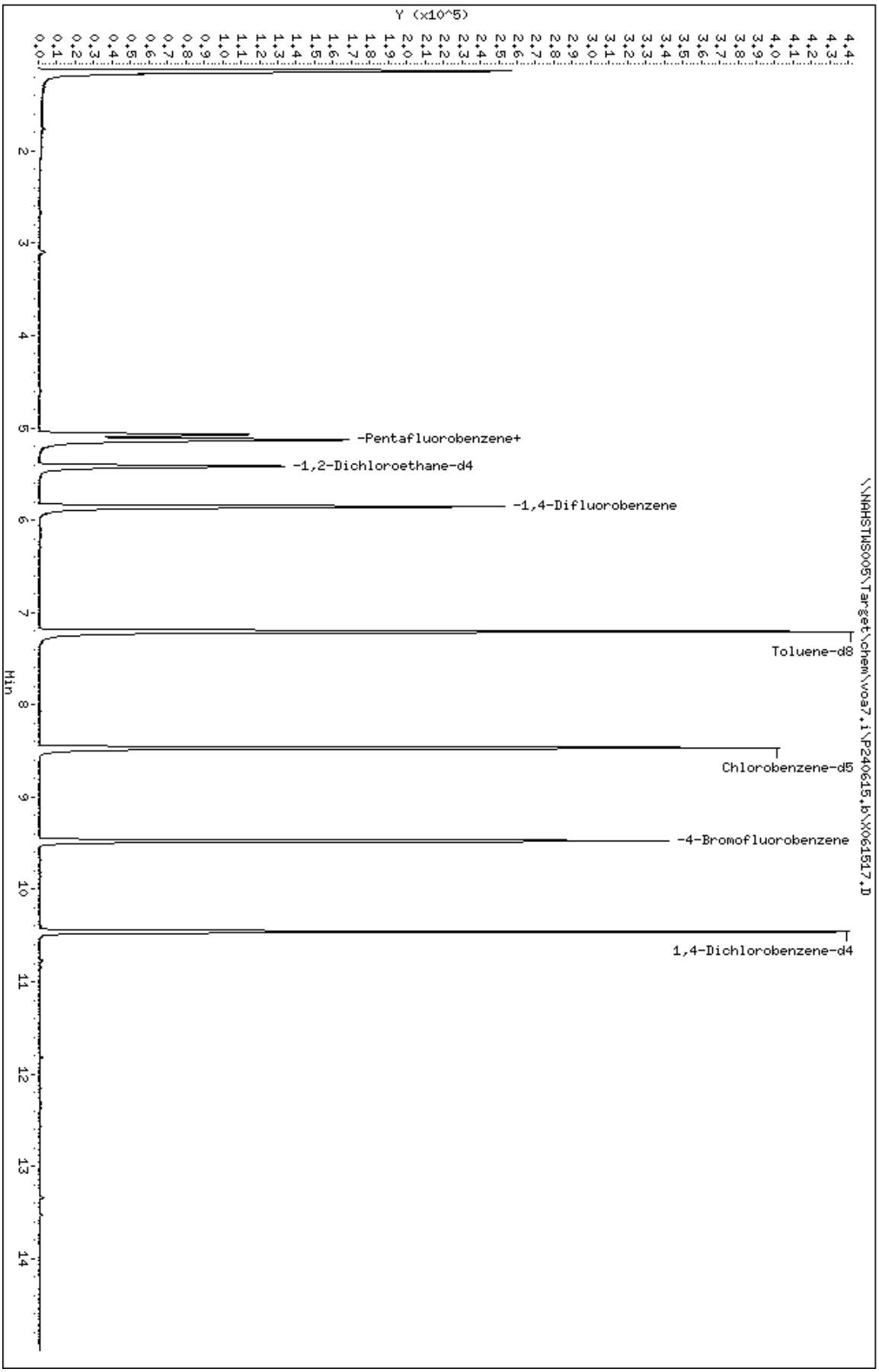
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	5.130	5.133	(1.000)	129701	50.0000	
$ 30 Dibromofluoromethane	113	5.072	5.072	(0.989)	79182	57.4329	57.43
$ 35 1,2-Dichloroethane-d4	65	5.416	5.416	(1.056)	106186	57.7512	57.75
* 36 1,4-Difluorobenzene	114	5.853	5.853	(1.000)	216943	50.0000	
* 47 Chlorobenzene-d5	117	8.467	8.467	(1.000)	207060	50.0000	
$ 48 Toluene-d8	98	7.207	7.203	(0.851)	278820	55.8582	55.85(M)
$ 69 4-Bromofluorobenzene	95	9.473	9.473	(1.119)	109714	54.9723	54.97
* 70 1,4-Dichlorobenzene-d4	152	10.457	10.457	(1.000)	106137	50.0000	

QC Flag Legend

M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061517.D
Date : 15-JUN-2024 20:07
Client ID: VBLKW-240615
Sample Info: VBLKW-240615;VBLKW-240615;3;;BLANK
Purge Volume: 5.0
Column phase: DB624

Instrument: voa7.i
Operator: AP
Column diameter: 0.18

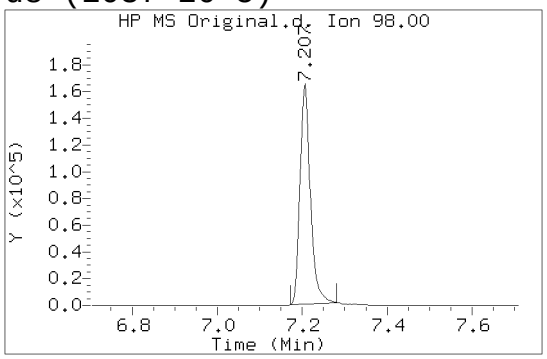
Page 1

Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061517.D
Inj Date : 15-JUN-2024 20:07
InstruID : voa7.i
LabSampID : VBLKW-240615

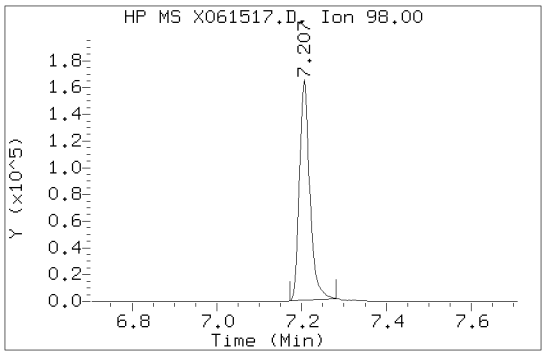
Toluene-d8 (2037-26-5)

Reason Code:

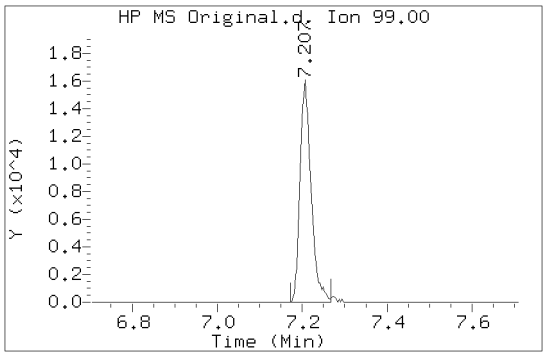
BEFORE
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12-Jul-2024
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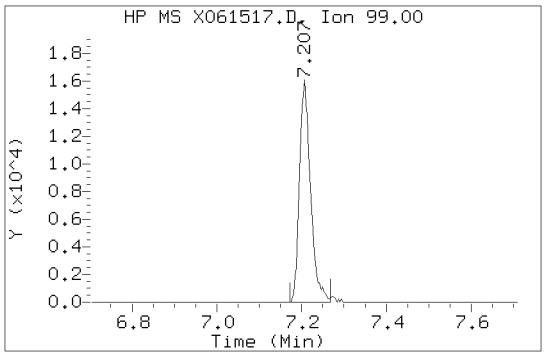
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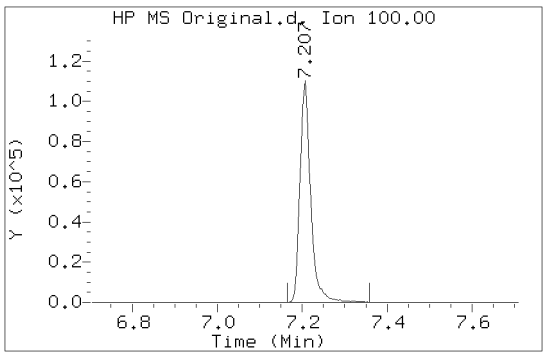
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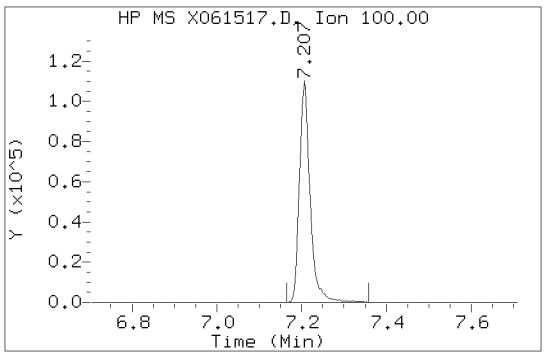
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BEFORE
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110280
12-Jul-2024
11:38
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zaid



AFTER
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AREA
191935
HEIGHT
110280
12-Jul-2024
11:38
s
zaid



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061519.D Page 1
Report Date: 12-Jul-2024 11:43

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061519.D
Lab Smp Id: HS24060293-07
Inj Date : 15-JUN-2024 20:53
Operator : AP   Inst ID: voa7.i
Smp Info : HS24060293-07
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240615.b\8260W.m
Meth Date : 12-Jul-2024 11:43 voa7.i   Quant Type: ISTD
Cal Date : 15-JUN-2024 16:41   Cal File: X061509.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

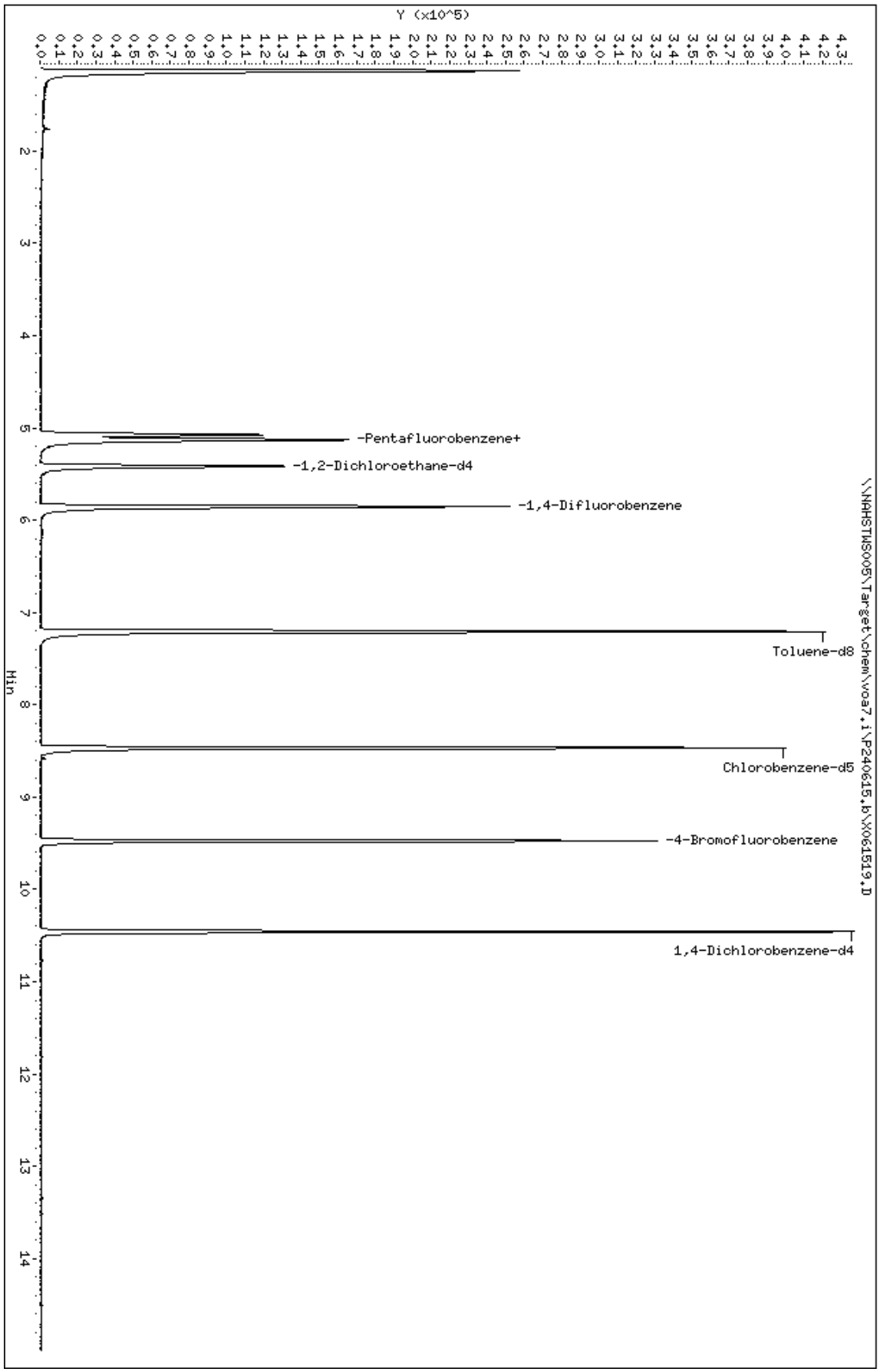
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	5.130	5.130	(1.000)	126579	50.0000	
$ 30 Dibromofluoromethane	113	5.075	5.072	(0.989)	78985	58.7345	58.73(R)
$ 35 1,2-Dichloroethane-d4	65	5.416	5.416	(1.056)	105239	58.6746	58.67
* 36 1,4-Difluorobenzene	114	5.853	5.853	(1.000)	210394	50.0000	
* 47 Chlorobenzene-d5	117	8.467	8.467	(1.000)	203925	50.0000	
$ 48 Toluene-d8	98	7.203	7.207	(0.851)	274424	55.8219	55.82(M)
$ 69 4-Bromofluorobenzene	95	9.473	9.477	(1.119)	104274	52.9742	52.97
* 70 1,4-Dichlorobenzene-d4	152	10.457	10.457	(1.000)	101749	50.0000	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa7,i\P240615,b\X061519,D
Date : 15-JUN-2024 20:53
Client ID:
Sample Info: HS240602293-07
Purge Volume: 5.0
Column phase: DB624

Instrument: voa7,i
Operator: AP
Column diameter: 0.18

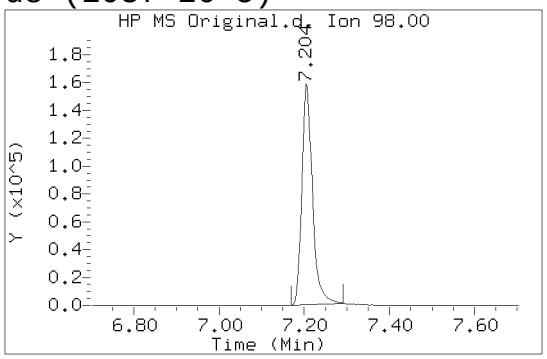
Page 1

Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061519.D
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InstruID : voa7.i
LabSampID : HS24060293-07

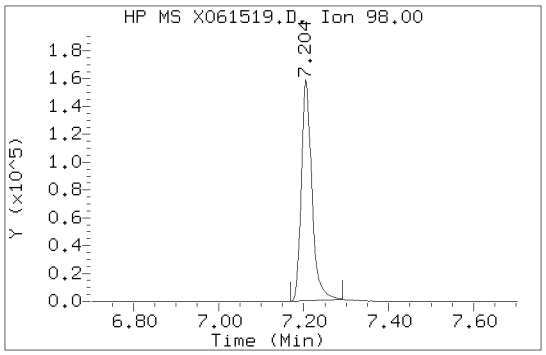
Toluene-d8 (2037-26-5)

Reason Code:

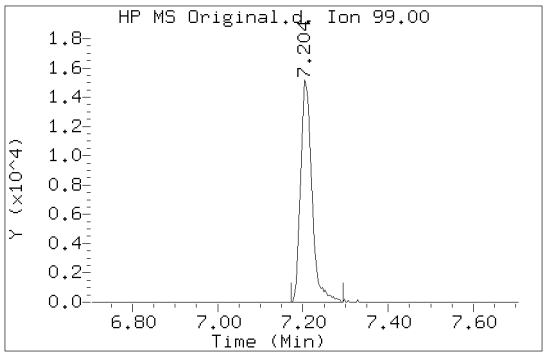
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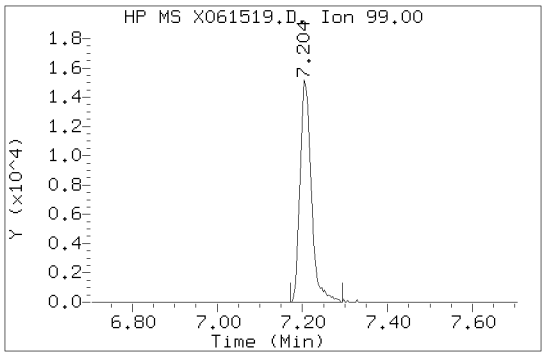
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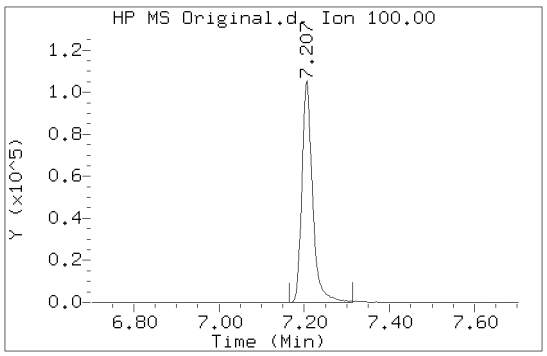
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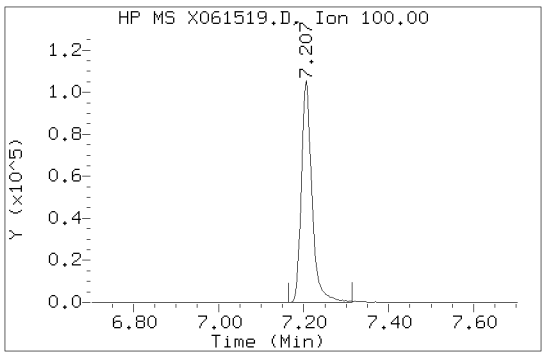
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BEFORE
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AFTER
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Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061522.D Page 1
Report Date: 12-Jul-2024 11:39

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061522.D
Lab Smp Id: HS24060434-01MS Client Smp ID: HS24060434-01MS
Inj Date : 15-JUN-2024 22:01
Operator : AP Inst ID: voa7.i
Smp Info : HS24060434-01MS;HS24060434-01MS;3;;MS
Misc Info : HS220328V7;WATER;0;250;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240615.b\8260W.m
Meth Date : 12-Jul-2024 11:38 voa7.i Quant Type: ISTD
Cal Date : 15-JUN-2024 17:04 Cal File: X061510.D
Als bottle: 21 QC Sample: MS
Dil Factor: 250.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	250.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	5.133	5.133	(1.000)	129511	50.0000	
2 Dichlorodifluoromethane	85	1.297	1.294	(0.253)	23363	16.7808	4195.21
159 Dichlorofluoromethane	67	2.075	2.075	(0.404)	53465	19.8241	4956.02
3 Chloromethane	50	1.448	1.448	(0.282)	35458	17.1262	4281.54
4 Propionitrile	54	4.670	4.670	(0.910)	33343	184.336	46083.98
5 Vinyl Chloride	62	1.535	1.535	(0.299)	32047	17.4470	4361.74
6 Bromomethane	94	1.808	1.808	(0.352)	17946	17.3184	4329.60
7 Chloroethane	64	1.898	1.895	(0.370)	19680	17.4596	4364.89
8 Trichlorofluoromethane	101	2.111	2.113	(0.411)	39803	16.5903	4147.56
9 Acrolein	56	2.519	2.519	(0.491)	820	22.4721	5618.01
10 Acetone	43	2.667	2.667	(0.520)	16165	32.0295	8007.36
11 1,1-Dichloroethene	96	2.593	2.593	(0.505)	23165	17.4855	4371.38
12 Isobutyl Alcohol	43	5.570	5.573	(1.085)	75975	340.807	85201.82
13 Acetonitrile	39	2.959	2.962	(0.577)	41011	200.696	50173.98
14 Allyl Chloride	41	2.959	2.956	(0.577)	81913	19.0921	4773.02
15 Iodomethane	142	2.741	2.744	(0.534)	49452	31.9265	7981.61
16 Acrylonitrile	53	3.381	3.380	(0.659)	17706	38.3304	9582.60
17 Methylene Chloride	84	3.091	3.094	(0.602)	27619	16.8927	4223.17
18 Methyl tert-butyl ether	73	3.381	3.380	(0.659)	66337	18.2118	4552.95
19 Carbon Disulfide	76	2.799	2.795	(0.545)	137551	33.2484	8312.10

20 trans-1,2-Dichloroethene	96	3.374	3.374 (0.657)	23416	16.7367	4184.18
21 Vinyl Acetate	43	4.660	4.657 (0.908)	25194	32.1999	8049.97

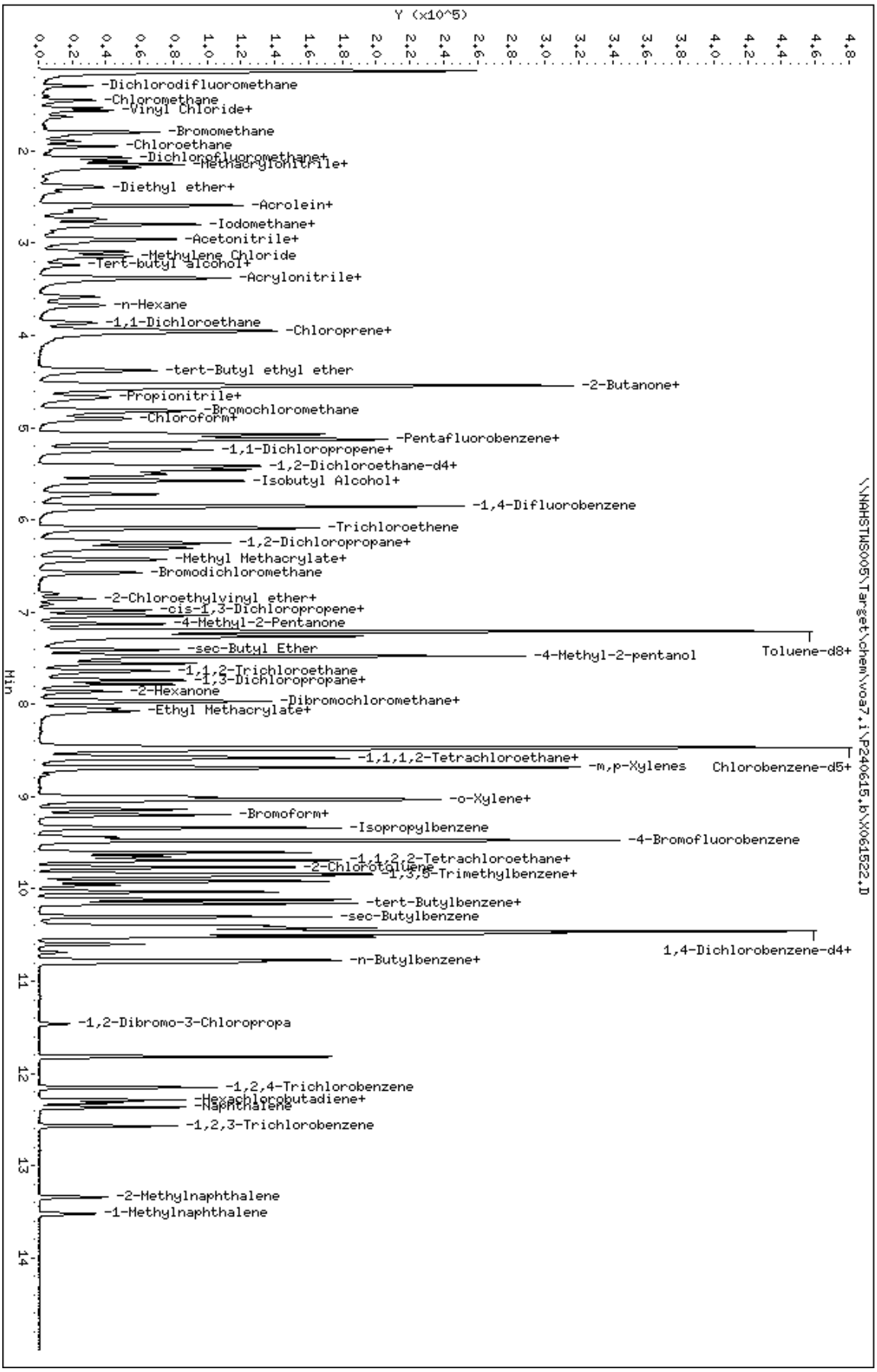
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
22	1,1-Dichloroethane	63	3.860	3.863	(0.752)	48115	15.8029	3950.72
23	Chloroprene	53	3.966	3.965	(0.773)	40012	16.5220	4130.49
24	2-Butanone	43	4.593	4.589	(0.895)	21278	31.8736	7968.40
25	Methacrylonitrile	41	2.149	2.149	(0.419)	42928	19.8878	4971.95
26	2,2-Dichloropropane	77	4.535	4.535	(0.883)	38359	14.8422	3710.54
27	cis-1,2-Dichloroethene	96	4.545	4.544	(0.885)	147827	96.0889	24022.22
28	Chloroform	83	4.901	4.901	(0.955)	46853	16.4657	4116.41
29	Bromochloromethane	128	4.805	4.808	(0.936)	12098	15.7914	3947.85
$ 30	Dibromofluoromethane	113	5.072	5.072	(0.988)	79272	57.5862	57.58(R)
31	1,1,1-Trichloroethane	97	5.072	5.075	(0.988)	39877	16.4017	4100.41
32	1,1-Dichloropropene	75	5.249	5.245	(0.897)	34630	16.5551	4138.78
33	1,2-Dichloroethane	62	5.496	5.490	(0.939)	37384	15.8015	3950.38
34	Carbon Tetrachloride	117	5.233	5.236	(0.894)	32739	16.0368	4009.19
$ 35	1,2-Dichloroethane-d4	65	5.413	5.416	(1.054)	106756	58.1581	58.15
* 36	1,4-Difluorobenzene	114	5.853	5.853	(1.000)	214351	50.0000	
37	Benzene	78	5.458	5.457	(0.932)	96480	16.5614	4140.35
38	Trichloroethene	130	6.088	6.088	(1.040)	52665	35.6298	8907.45
39	Bromodichloromethane	83	6.570	6.570	(1.122)	34006	14.2499	3562.48
40	Methyl Methacrylate	41	6.435	6.432	(1.254)	26051	17.6893	4422.33
41	2-Chloroethylvinyl ether	63	6.850	6.853	(1.170)	13114	22.0776	5519.40
42	1,2-Dichloropropane	63	6.310	6.309	(1.078)	27056	16.1671	4041.77
43	2-Nitropropane	43	6.802	6.798	(1.325)	7812	17.0488	4262.19
44	Dibromomethane	93	6.419	6.416	(1.097)	14704	15.6252	3906.29
45	4-Methyl-2-Pentanone	43	7.130	7.126	(0.842)	50461	32.5716	8142.90
46	cis-1,3-Dichloropropene	75	6.979	6.978	(1.192)	35079	15.2259	3806.47
* 47	Chlorobenzene-d5	117	8.467	8.467	(1.000)	199549	50.0000	
$ 48	Toluene-d8	98	7.207	7.203	(0.851)	288742	60.1197	60.11(R)
49	Ethyl Methacrylate	69	8.046	8.039	(1.375)	28903	15.7789	3944.73
50	Toluene	91	7.265	7.264	(0.858)	100041	16.5752	4143.79
51	trans-1,3-Dichloropropene	75	6.979	6.978	(1.192)	35079	15.2259	3806.47
52	2-Hexanone	43	7.863	7.859	(0.929)	33708	31.3784	7844.60
53	1,1,2-Trichloroethane	83	7.638	7.637	(0.902)	18355	15.9977	3999.42
54	1,3-Dichloropropane	76	7.779	7.782	(0.919)	39390	16.0439	4010.97
55	Dibromochloromethane	129	7.975	7.978	(0.942)	23753	14.5327	3633.18
56	Tetrachloroethene	164	7.737	7.737	(0.914)	18855	16.6242	4156.06
57	1,2-Dibromoethane	107	8.072	8.071	(0.953)	18746	15.3253	3831.31
58	1-Chlorohexane	55	8.467	8.467	(1.447)	26136	16.1292	4032.31
59	Chlorobenzene	112	8.493	8.493	(1.003)	63593	16.0406	4010.15
60	1,1,1,2-Tetrachloroethane	131	8.564	8.563	(1.011)	21780	16.0520	4012.99
61	Ethylbenzene	106	8.583	8.583	(1.014)	33521	16.4632	4115.79
62	m,p-Xylenes	106	8.686	8.682	(1.026)	85216	33.4231	8355.78
63	o-Xylene	106	9.023	9.023	(1.066)	40463	16.3021	4075.52
64	Styrene	104	9.040	9.039	(1.068)	70907	16.2408	4060.19
66	Bromoform	173	9.203	9.206	(1.087)	15030	14.5837	3645.92
67	Isopropylbenzene	105	9.339	9.338	(1.103)	104579	16.5284	4132.10
68	1,1,2,2-Tetrachloroethane	83	9.609	9.608	(0.919)	27848	15.6780	3919.50
$ 69	4-Bromofluorobenzene	95	9.474	9.473	(1.119)	104127	54.1038	54.10
* 70	1,4-Dichlorobenzene-d4	152	10.457	10.457	(1.000)	102881	50.0000	
71	1,2,3-Trichloropropane	75	9.650	9.650	(0.923)	30576	15.2534	3813.36
72	trans-1,4-Dichloro-2-butene	53	9.660	9.660	(1.141)	6213	14.4124	3603.11
73	n-Propylbenzene	91	9.689	9.689	(0.927)	125265	16.3233	4080.83
74	Bromobenzene	156	9.605	9.605	(0.919)	26805	15.9091	3977.26

75	1,3,5-Trimethylbenzene	105	9.837	9.837 (0.941)	89448	16.3302	4082.54
76	2-Chlorotoluene	91	9.766	9.766 (0.934)	75935	15.9706	3992.63

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
77	4-Chlorotoluene	91	9.859	9.859	(0.943)	89245	15.9934	3998.35
78	tert-Butylbenzene	119	10.117	10.116	(0.967)	74611	16.3252	4081.30
79	1,2,4-Trimethylbenzene	105	10.158	10.158	(0.971)	89410	16.2894	4072.35
81	sec-Butylbenzene	105	10.303	10.303	(0.985)	102160	16.4186	4104.65
82	p-Isopropyltoluene	119	10.425	10.425	(0.997)	90409	16.1240	4030.99
83	1,3-Dichlorobenzene	146	10.403	10.403	(0.995)	49249	15.9165	3979.13
84	1,4-Dichlorobenzene	146	10.480	10.476	(1.002)	49733	15.5514	3887.84
87	n-Butylbenzene	91	10.773	10.772	(1.030)	84589	15.9825	3995.61
88	1,2-Dichlorobenzene	146	10.798	10.795	(1.033)	45570	15.2793	3819.83
89	1,2-Dibromo-3-Chloropropane	75	11.461	11.464	(1.096)	4195	13.7976	3449.41
90	1,2,4-Trichlorobenzene	180	12.152	12.155	(1.162)	26988	14.4212	3605.29
91	Hexachlorobutadiene	225	12.287	12.287	(1.175)	14056	15.5666	3891.66
92	Naphthalene	128	12.367	12.367	(1.183)	57188	12.9582	3239.56
93	1,2,3-Trichlorobenzene	182	12.570	12.570	(1.202)	21088	13.1268	3281.70
135	1,4-Dioxane	88	6.445	6.448	(1.256)	4176	389.781	97445.21(A)
138	Freon TF	101	2.593	2.589	(0.505)	35730	27.2056	6801.41
139	Diethyl ether	59	2.381	2.377	(0.464)	18410	19.4990	4874.73
140	1,3-Butadiene	54	1.564	1.564	(0.305)	14137	17.3564	4339.08
141	Cyclohexane	56	5.114	5.113	(0.996)	40102	16.9925	4248.12
147	Methylcyclohexane	83	6.249	6.252	(1.068)	42757	21.2353	5308.81
132	n-Butanol	56	6.252	6.248	(1.218)	17512	424.648	106161.90
131	Methyl Acrylate	55	4.689	4.689	(0.914)	26240	17.6535	4413.37
133	Ethyl Acrylate	55	6.223	6.223	(1.212)	30506	8.37139	2092.84
136	n-Hexane	57	3.676	3.673	(0.716)	25612	15.9841	3996.01
142	Tetrahydrofuran	42	4.866	4.863	(0.948)	9548	40.3849	10096.22
148	Tert-butyl alcohol	59	3.242	3.239	(0.632)	32413	339.129	84782.32
149	Isopropyl alcohol	45	2.815	2.814	(0.548)	25366	368.988	92247.06
151	4-Methyl-2-pentanol	45	7.477	7.473	(0.883)	182915	345.443	86360.81
166	1,2,3-Trimethylbenzene	105	10.519	10.518	(1.006)	96249	18.1636	4540.89
167	Ethanol	45	2.307	2.310	(0.449)	4445	386.372	96593.01
172	tert-Butyl formate	59	3.242	3.239	(0.632)	32413	38.9672	9741.78
173	3,3-Dimethyl-1-butanol	57	8.046	8.042	(0.950)	41035	325.510	81377.49
174	tert-Amyl methyl ether	73	5.577	5.580	(1.086)	74923	18.8364	4709.10
175	tert-Butyl ethyl ether	59	4.381	4.377	(0.853)	79805	18.0716	4517.90
157	2-Methylnaphthalene	142	13.338	13.341	(1.275)	19090	11.8849	2971.22
156	Diisopropyl ether	45	3.946	3.949	(0.769)	92274	17.9424	4485.60
171	1-Methylnaphthalene	142	13.525	13.525	(1.293)	16361	11.5207	2880.16
130	Ethyl Acetate	43	3.946	3.946	(0.769)	141715	15.8062	3951.56
176	tert-Amyl alcohol	59	5.512	5.509	(1.074)	29536	370.556	92638.97(A)
160	Epichlorohydrin	57	6.914	6.914	(1.181)	6042	65.8906	16472.64
161	Butyl acrylate	55	8.998	8.997	(1.063)	58046	17.2920	4322.99
183	Isopropyl Acetate	43	5.570	5.573	(0.952)	75975	17.2644	4316.10(A)
184	n-Amyl acetate	43	9.194	9.194	(1.086)	46646	14.6318	3657.94(A)
185	Acetaldehyde	44	1.631	1.628	(0.318)	23799	112.092	28023.05(A)
186	n-Butyl acetate	43	7.966	7.969	(0.941)	40262	16.4432	4110.79(A)
187	2-Etyhlhexyl Acrylate	55	12.319	12.319	(1.178)	15199	14.7975	3699.37(A)
188	Tetrahydrothiophene	60	7.956	7.956	(0.940)	28743	18.1249	4531.23(A)
189	sec-Butyl Ether	57	7.406	7.406	(0.875)	31039	22.0089	5502.23(A)
190	Isoprene	39	2.403	2.396	(0.468)	5678	14.5277	3631.91(A)
191	2-Chloropropene	41	2.149	2.149	(0.419)	42928	19.2671	4816.78(A)
M 94	1,2-Dichloroethylene (total)	96				171243	112.826	28206.40
M 95	Xylenes (total)	106				125679	49.7253	12431.31

QC Flag Legend

A - Target compound detected but, quantitated amount
exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.



Data File: \\NAHSTWS005\Target\chem\voa7,i\P240615,b\X061522,D
Date : 15-JUN-2024 22:01
Client ID: HS2406043-01MS
Sample Info: HS2406043-01MS;HS2406043-01MS;3;;MS
Purge Volume: 5.0
Column phase: DB624

Instrument: voa7,i
Operator: AP
Column diameter: 0.18

Page 1

Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061522.D
Inj Date : 15-JUN-2024 22:01
InstruID : voa7.i
LabSampID : HS24060434-01MS

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061523.D Page 1
Report Date: 12-Jul-2024 11:39

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061523.D
Lab Smp Id: HS24060434-01MSD Client Smp ID: HS24060434-01MSD
Inj Date : 15-JUN-2024 22:24
Operator : AP Inst ID: voa7.i
Smp Info : HS24060434-01MSD;HS24060434-01MSD;3;;MSD
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240615.b\8260W.m
Meth Date : 12-Jul-2024 11:38 voa7.i Quant Type: ISTD
Cal Date : 15-JUN-2024 17:04 Cal File: X061510.D
Als bottle: 21 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	5.130	5.133	(1.000)	127655	50.0000	
2 Dichlorodifluoromethane	85	1.294	1.294	(0.252)	22415	16.3246	16.32
159 Dichlorofluoromethane	67	2.075	2.075	(0.405)	51659	19.4330	19.43
3 Chloromethane	50	1.448	1.448	(0.282)	32920	16.0745	16.07
4 Propionitrile	54	4.670	4.670	(0.910)	32631	182.953	182.95
5 Vinyl Chloride	62	1.532	1.535	(0.299)	30037	16.5838	16.58
6 Bromomethane	94	1.802	1.808	(0.351)	16547	16.1108	16.11
7 Chloroethane	64	1.892	1.895	(0.369)	18405	16.5446	16.54
8 Trichlorofluoromethane	101	2.111	2.113	(0.411)	38713	16.3658	16.36
9 Acrolein	56	2.512	2.519	(0.490)	1028	28.5819	28.58
10 Acetone	43	2.667	2.667	(0.520)	17808	36.5010	36.50
11 1,1-Dichloroethene	96	2.590	2.593	(0.505)	21492	16.4678	16.46
12 Isobutyl Alcohol	43	5.570	5.573	(1.086)	73407	333.707	333.70
13 Acetonitrile	39	2.959	2.962	(0.577)	40440	200.782	200.78
14 Allyl Chloride	41	2.959	2.956	(0.577)	82649	19.5664	19.56
15 Iodomethane	142	2.737	2.744	(0.534)	50120	32.7195	32.71
16 Acrylonitrile	53	3.377	3.380	(0.658)	17078	37.4886	37.48
17 Methylene Chloride	84	3.094	3.094	(0.603)	27338	16.9716	16.97
18 Methyl tert-butyl ether	73	3.377	3.380	(0.658)	65148	18.1465	18.14
19 Carbon Disulfide	76	2.792	2.795	(0.544)	131265	32.1719	32.17

20 trans-1,2-Dichloroethene	96	3.371	3.374 (0.657)	22220	16.1027	16.10
21 Vinyl Acetate	43	4.654	4.657 (0.907)	24879	32.2659	32.26

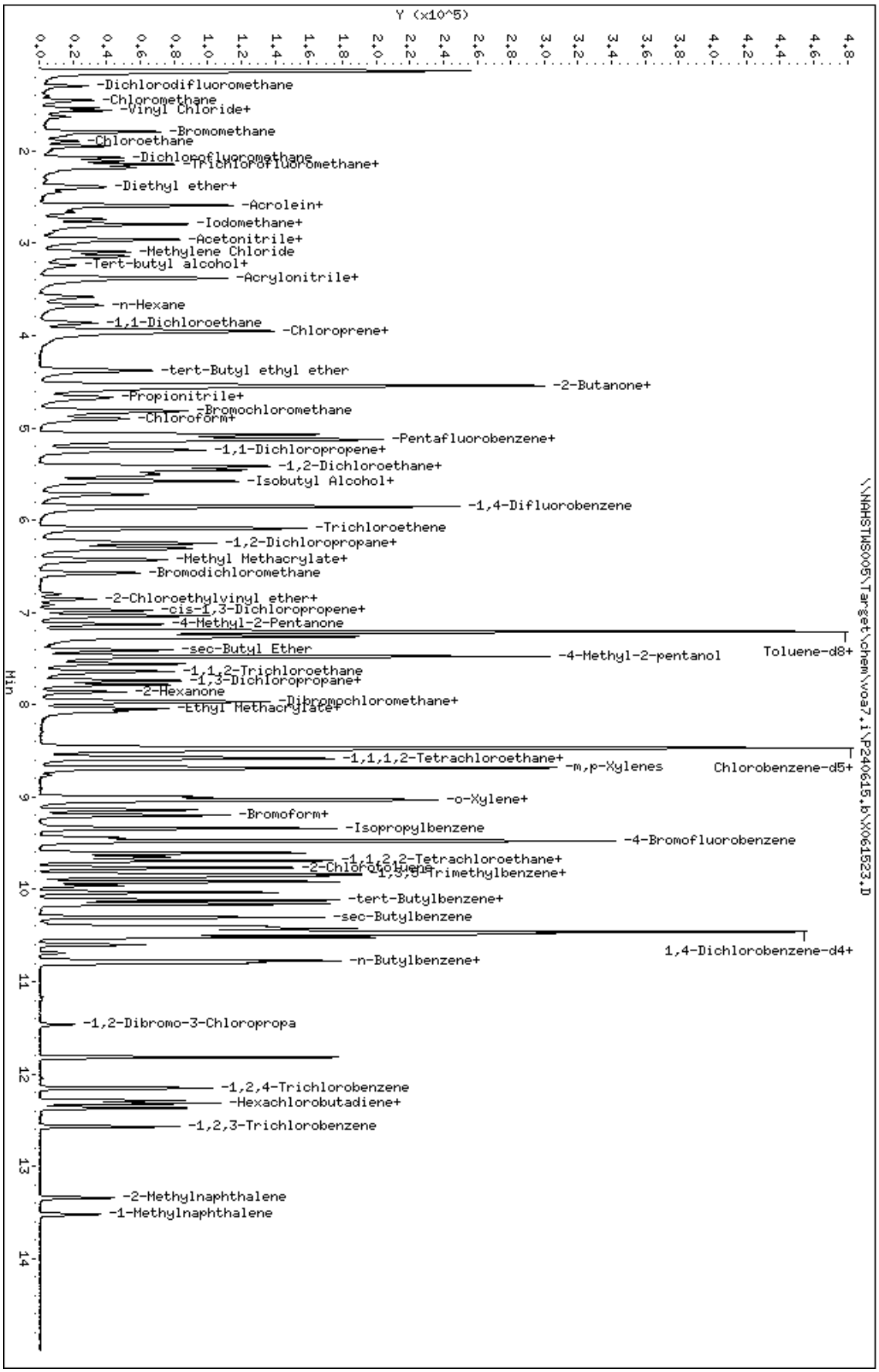
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
22	1,1-Dichloroethane	63	3.866	3.863	(0.754)	45884	15.2893	15.28
23	Chloroprene	53	3.966	3.965	(0.773)	38222	16.0113	16.01
24	2-Butanone	43	4.590	4.589	(0.895)	21570	32.9026	32.90
25	Methacrylonitrile	41	2.146	2.149	(0.418)	41823	19.6576	19.65
26	2,2-Dichloropropane	77	4.532	4.535	(0.883)	36538	14.3431	14.34
27	cis-1,2-Dichloroethene	96	4.544	4.544	(0.886)	143469	94.6039	94.60
28	Chloroform	83	4.905	4.901	(0.956)	44037	15.6639	15.66
29	Bromochloromethane	128	4.808	4.808	(0.937)	12080	16.0026	16.00
$ 30	Dibromofluoromethane	113	5.072	5.072	(0.989)	81310	59.9837	59.98(R)
31	1,1,1-Trichloroethane	97	5.072	5.075	(0.989)	37273	15.5532	15.55
32	1,1-Dichloropropene	75	5.245	5.245	(0.896)	33136	15.8152	15.81
33	1,2-Dichloroethane	62	5.493	5.490	(0.938)	37613	15.8688	15.86
34	Carbon Tetrachloride	117	5.233	5.236	(0.894)	31842	15.5937	15.59
$ 35	1,2-Dichloroethane-d4	65	5.413	5.416	(1.055)	107761	59.6011	59.60
* 36	1,4-Difluorobenzene	114	5.853	5.853	(1.000)	214775	50.0000	
37	Benzene	78	5.458	5.457	(0.932)	92502	15.8263	15.82
38	Trichloroethene	130	6.088	6.088	(1.040)	51385	34.6915	34.69
39	Bromodichloromethane	83	6.567	6.570	(1.122)	33281	13.9186	13.91
40	Methyl Methacrylate	41	6.432	6.432	(1.254)	25973	17.9132	17.91
41	2-Chloroethylvinyl ether	63	6.856	6.853	(1.171)	13122	22.0457	22.04
42	1,2-Dichloropropane	63	6.306	6.309	(1.077)	26174	15.5945	15.59
43	2-Nitropropane	43	6.798	6.798	(1.325)	8497	18.7777	18.77
44	Dibromomethane	93	6.419	6.416	(1.097)	14891	15.7931	15.79
45	4-Methyl-2-Pentanone	43	7.126	7.126	(0.842)	49363	31.8595	31.85
46	cis-1,3-Dichloropropene	75	6.975	6.978	(1.192)	33999	14.7419	14.74
* 47	Chlorobenzene-d5	117	8.467	8.467	(1.000)	199331	50.0000	
$ 48	Toluene-d8	98	7.207	7.203	(0.851)	295757	61.6802	61.68(R)
49	Ethyl Methacrylate	69	8.043	8.039	(1.374)	31542	17.1625	17.16
50	Toluene	91	7.265	7.264	(0.858)	96538	15.9908	15.99
51	trans-1,3-Dichloropropene	75	6.975	6.978	(1.192)	33999	14.7419	14.74
52	2-Hexanone	43	7.863	7.859	(0.929)	30997	28.6493	28.64
53	1,1,2-Trichloroethane	83	7.638	7.637	(0.902)	18473	16.1246	16.12
54	1,3-Dichloropropane	76	7.786	7.782	(0.919)	38197	15.5527	15.55
55	Dibromochloromethane	129	7.978	7.978	(0.942)	23087	14.1407	14.14
56	Tetrachloroethene	164	7.734	7.737	(0.913)	17705	15.6227	15.62
57	1,2-Dibromoethane	107	8.072	8.071	(0.953)	19124	15.6708	15.67
58	1-Chlorohexane	55	8.467	8.467	(1.447)	25304	15.5058	15.50
59	Chlorobenzene	112	8.493	8.493	(1.003)	62474	15.7645	15.76
60	1,1,1,2-Tetrachloroethane	131	8.564	8.563	(1.011)	21444	15.8283	15.82
61	Ethylbenzene	106	8.586	8.583	(1.014)	32936	16.1849	16.18
62	m,p-Xylenes	106	8.683	8.682	(1.025)	79306	31.0639	31.06
63	o-Xylene	106	9.027	9.023	(1.066)	39116	15.7527	15.75
64	Styrene	104	9.039	9.039	(1.068)	67816	15.5235	15.52
66	Bromoform	173	9.207	9.206	(1.087)	15101	14.6686	14.66
67	Isopropylbenzene	105	9.339	9.338	(1.103)	101918	16.1176	16.11
68	1,1,2,2-Tetrachloroethane	83	9.609	9.608	(0.919)	27443	15.2665	15.26
$ 69	4-Bromofluorobenzene	95	9.477	9.473	(1.119)	107754	56.1276	56.12
* 70	1,4-Dichlorobenzene-d4	152	10.457	10.457	(1.000)	103987	50.0000	
71	1,2,3-Trichloropropane	75	9.647	9.650	(0.923)	31762	15.6932	15.69
72	trans-1,4-Dichloro-2-butene	53	9.660	9.660	(1.141)	6399	14.8548	14.85
73	n-Propylbenzene	91	9.689	9.689	(0.927)	122351	15.7745	15.77
74	Bromobenzene	156	9.605	9.605	(0.919)	26856	15.7680	15.76

75	1,3,5-Trimethylbenzene	105	9.837	9.837 (0.941)	86046	15.5521	15.55
76	2-Chlorotoluene	91	9.763	9.766 (0.934)	75204	15.6391	15.63

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
77	4-Chlorotoluene	91	9.859	9.859	(0.943)	86746	15.3699	15.36
78	tert-Butylbenzene	119	10.117	10.116	(0.967)	72604	15.7080	15.70
79	1,2,4-Trimethylbenzene	105	10.155	10.158	(0.971)	85889	15.4746	15.47
81	sec-Butylbenzene	105	10.303	10.303	(0.985)	99841	15.8815	15.88
82	p-Isopropyltoluene	119	10.425	10.425	(0.997)	89659	15.8235	15.82
83	1,3-Dichlorobenzene	146	10.403	10.403	(0.995)	47955	15.3286	15.32
84	1,4-Dichlorobenzene	146	10.477	10.476	(1.002)	49595	15.3373	15.33
87	n-Butylbenzene	91	10.773	10.772	(1.030)	81442	15.2229	15.22
88	1,2-Dichlorobenzene	146	10.798	10.795	(1.033)	46158	15.3123	15.31
89	1,2-Dibromo-3-Chloropropane	75	11.464	11.464	(1.096)	4217	13.7225	13.72
90	1,2,4-Trichlorobenzene	180	12.155	12.155	(1.162)	27248	14.4062	14.40
91	Hexachlorobutadiene	225	12.290	12.287	(1.175)	13771	15.1110	15.11
92	Naphthalene	128	12.371	12.367	(1.183)	59795	13.4049	13.40
93	1,2,3-Trichlorobenzene	182	12.570	12.570	(1.202)	21404	13.1818	13.18
135	1,4-Dioxane	88	6.454	6.448	(1.258)	3993	377.679	377.67(A)
138	Freon TF	101	2.593	2.589	(0.506)	34358	26.5486	26.54
139	Diethyl ether	59	2.381	2.377	(0.464)	16673	17.9160	17.91
140	1,3-Butadiene	54	1.561	1.564	(0.304)	13225	16.5103	16.51
141	Cyclohexane	56	5.114	5.113	(0.997)	37251	15.9760	15.97
147	Methylcyclohexane	83	6.245	6.252	(1.067)	40675	20.2638	20.26
132	n-Butanol	56	6.245	6.248	(1.217)	15443	379.921	379.92
131	Methyl Acrylate	55	4.686	4.689	(0.914)	26868	18.3888	18.38
133	Ethyl Acrylate	55	6.252	6.223	(1.219)	69924	19.4674	19.46
136	n-Hexane	57	3.676	3.673	(0.717)	24637	15.6167	15.61
142	Tetrahydrofuran	42	4.860	4.863	(0.947)	10905	46.5610	46.56
148	Tert-butyl alcohol	59	3.239	3.239	(0.631)	32613	346.183	346.18
149	Isopropyl alcohol	45	2.818	2.814	(0.549)	25919	383.632	383.63
151	4-Methyl-2-pentanol	45	7.474	7.473	(0.883)	172441	325.662	325.66
166	1,2,3-Trimethylbenzene	105	10.519	10.518	(1.006)	94354	17.6166	17.61
167	Ethanol	45	2.310	2.310	(0.450)	3890	338.859	338.85
172	tert-Butyl formate	59	3.239	3.239	(0.631)	32613	39.8293	39.82
173	3,3-Dimethyl-1-butanol	57	8.040	8.042	(0.949)	45599	361.197	361.19
174	tert-Amyl methyl ether	73	5.577	5.580	(1.087)	72349	18.4501	18.45
175	tert-Butyl ethyl ether	59	4.374	4.377	(0.853)	78239	17.9746	17.97
157	2-Methylnaphthalene	142	13.342	13.341	(1.276)	20077	12.3664	12.36
156	Diisopropyl ether	45	3.950	3.949	(0.770)	92950	18.3367	18.33
171	1-Methylnaphthalene	142	13.522	13.525	(1.293)	17467	12.1687	12.16
130	Ethyl Acetate	43	3.946	3.946	(0.769)	142136	16.0812	16.08
176	tert-Amyl alcohol	59	5.512	5.509	(1.075)	30364	387.550	387.54(A)
160	Epichlorohydrin	57	6.914	6.914	(1.181)	6519	70.8490	70.84
161	Butyl acrylate	55	8.998	8.997	(1.063)	58782	17.5269	17.52
183	Isopropyl Acetate	43	5.570	5.573	(0.952)	73407	16.6264	16.62(A)
184	n-Amyl acetate	43	9.194	9.194	(1.086)	46332	14.5523	14.55(A)
185	Acetaldehyde	44	1.628	1.628	(0.317)	22404	106.863	106.86(A)
186	n-Butyl acetate	43	7.966	7.969	(0.941)	39191	16.0009	16.00(A)
187	2-Etyhlhexyl Acrylate	55	12.319	12.319	(1.178)	31541	26.4055	26.40(A)
188	Tetrahydrothiophene	60	7.959	7.956	(0.940)	28676	18.1023	18.10(A)
189	sec-Butyl Ether	57	7.406	7.406	(0.875)	29102	20.5055	20.50(A)
190	Isoprene	39	2.397	2.396	(0.467)	7481	19.2964	19.29(A)
191	2-Chloropropene	41	2.146	2.149	(0.418)	41823	19.0441	19.04(A)
M 94	1,2-Dichloroethylene (total)	96				165689	110.707	110.70
M 95	Xylenes (total)	106				118422	46.8166	46.81

QC Flag Legend

A - Target compound detected but, quantitated amount
exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.



Data File: \\NHSTMS005\Target\chem\voa7.i\P240615.b\X061523.D
Date : 15-JUN-2024 22:24
Client ID: HS24060434-01MSD
Sample Info: HS24060434-01MSD;HS24060434-01MSD;3;;MSD
Purge Volume: 5.0
Column phase: DB624

\\NHSTMS005\Target\chem\voa7.i\P240615.b\X061523.D

Instrument: voa7.i
Operator: AP
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061523.D
Inj Date : 15-JUN-2024 22:24
InstruID : voa7.i
LabSampID : HS24060434-01MSD

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061528.D Page 1
Report Date: 12-Jul-2024 11:43

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061528.D
Lab Smp Id: HS24060293-01
Inj Date : 16-JUN-2024 00:19
Operator : AP   Inst ID: voa7.i
Smp Info : HS24060293-01
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240615.b\8260W.m
Meth Date : 12-Jul-2024 11:43 voa7.i   Quant Type: ISTD
Cal Date : 15-JUN-2024 16:41   Cal File: X061509.D
Als bottle: 26
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

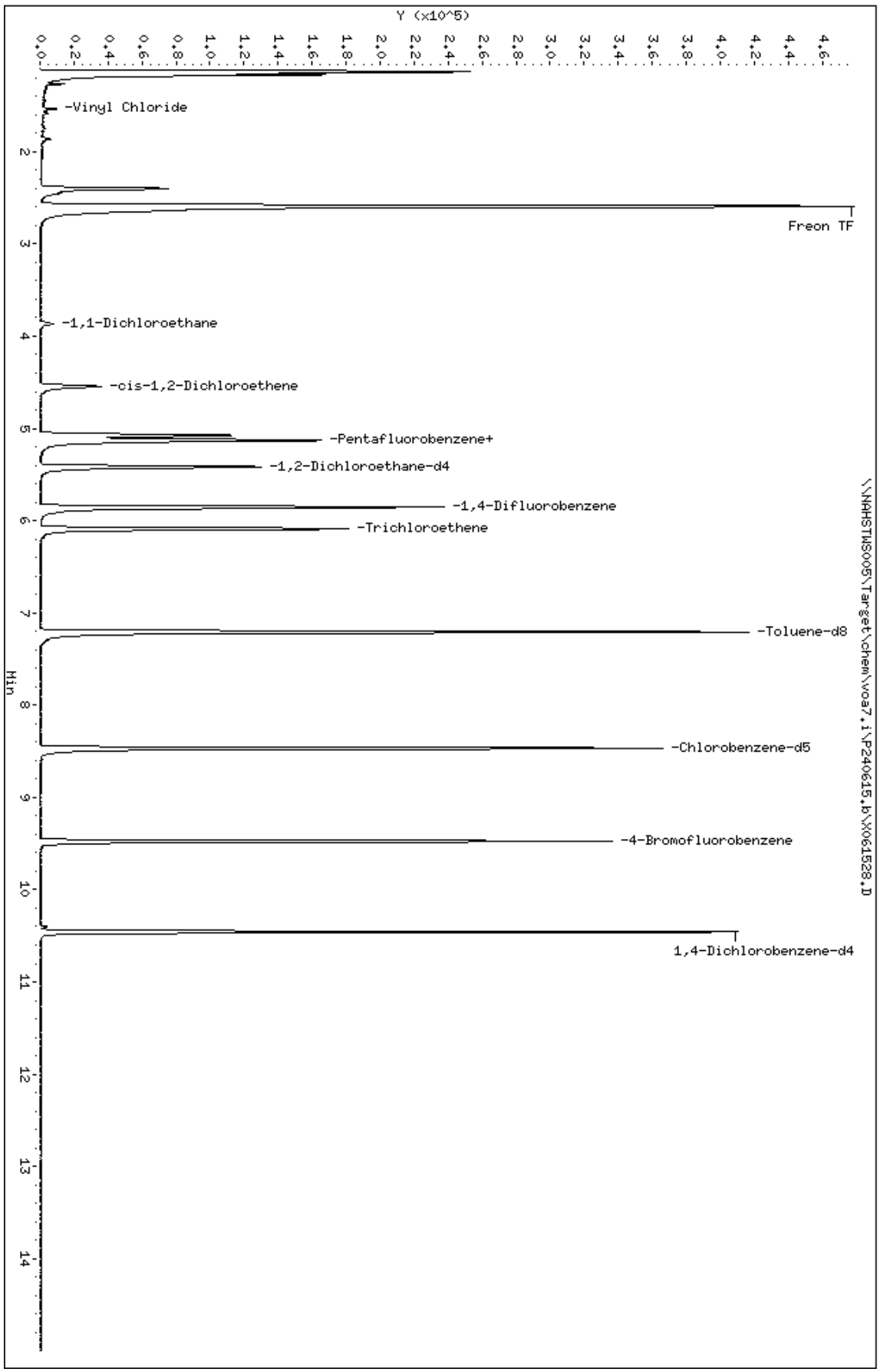
Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
*	1 Pentafluorobenzene	168	5.133	5.130	(1.000)	122060	50.0000	
	5 Vinyl Chloride	62	1.535	1.535	(0.299)	6645	3.73210	3.73
	22 1,1-Dichloroethane	63	3.869	3.863	(0.754)	9495	3.30891	3.30
	27 cis-1,2-Dichloroethene	96	4.541	4.544	(0.885)	18089	12.0132	12.01
$	30 Dibromofluoromethane	113	5.072	5.072	(0.988)	76171	58.7392	58.73(RM)
$	35 1,2-Dichloroethane-d4	65	5.416	5.416	(1.055)	100953	58.3598	58.35
*	36 1,4-Difluorobenzene	114	5.853	5.853	(1.000)	206220	50.0000	
	38 Trichloroethene	130	6.088	6.088	(1.040)	62253	43.8101	43.81
*	47 Chlorobenzene-d5	117	8.467	8.467	(1.000)	194812	50.0000	
$	48 Toluene-d8	98	7.207	7.207	(0.851)	260600	55.4818	55.48(M)
$	69 4-Bromofluorobenzene	95	9.473	9.477	(1.119)	102049	54.3218	54.32
*	70 1,4-Dichlorobenzene-d4	152	10.457	10.457	(1.000)	95132	50.0000	
	138 Freon TF	101	2.593	2.589	(0.505)	257438	205.997	205.99(A)
M	94 1,2-Dichloroethylene (total)	96				18089	12.0132	12.01

QC Flag Legend

A - Target compound detected but, quantitated amount
    exceeded maximum amount.

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa7,i\P240615,b\X061528.D
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Client ID:
Sample Info: HS24060293-01
Purge Volume: 5.0
Column phase: DB624

Instrument: voa7,i
Operator: AP
Column diameter: 0.18

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061528.D

Date : 16-JUN-2024 00:19

Client ID:

Instrument: voa7.i

Sample Info: HS24060293-01

Purge Volume: 5.0

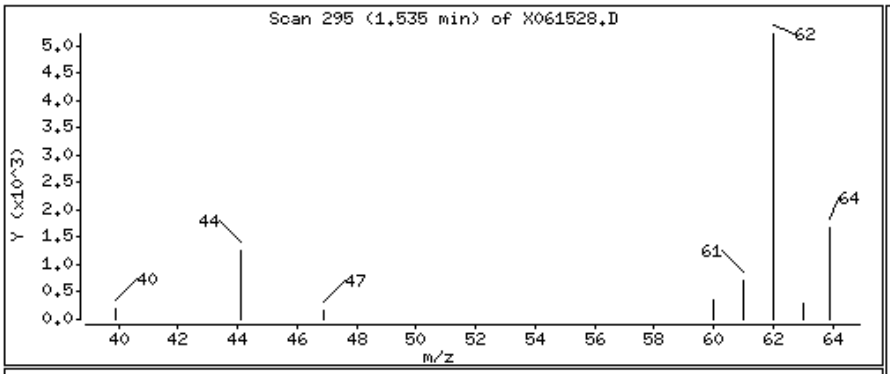
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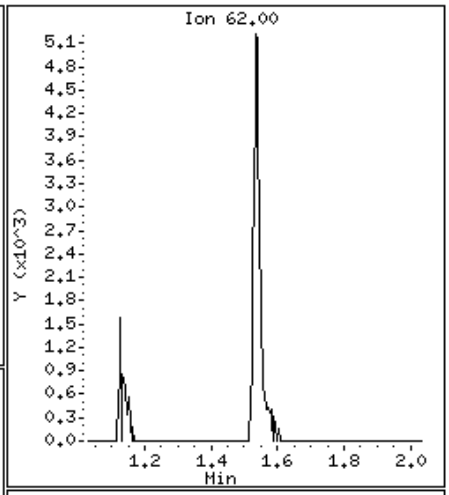
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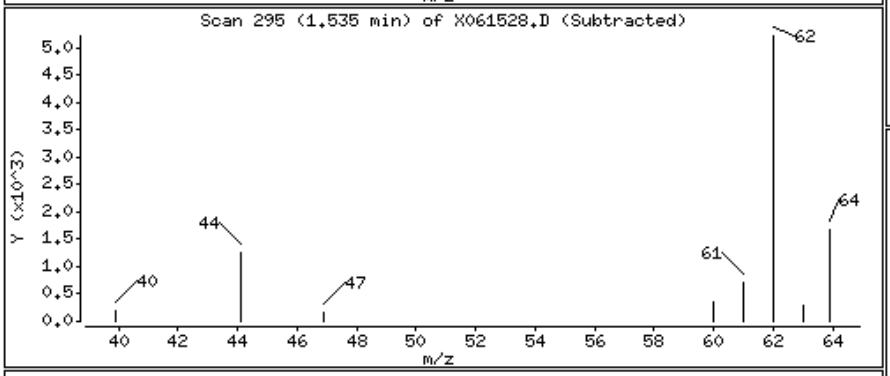
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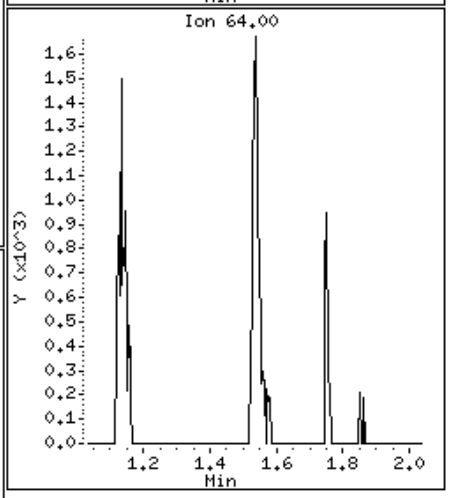
5 Vinyl Chloride

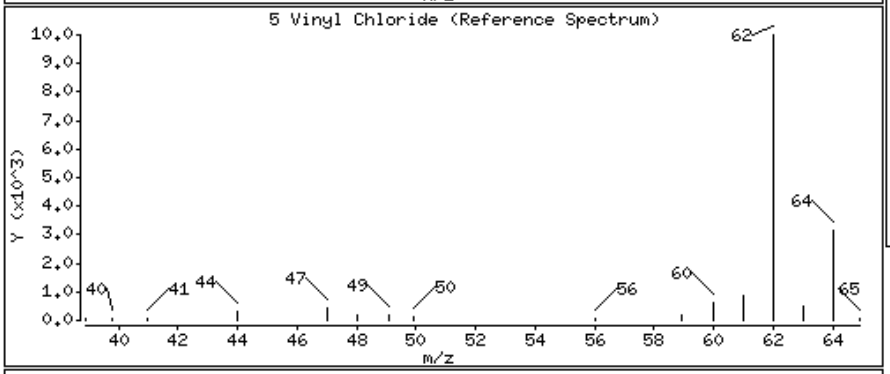
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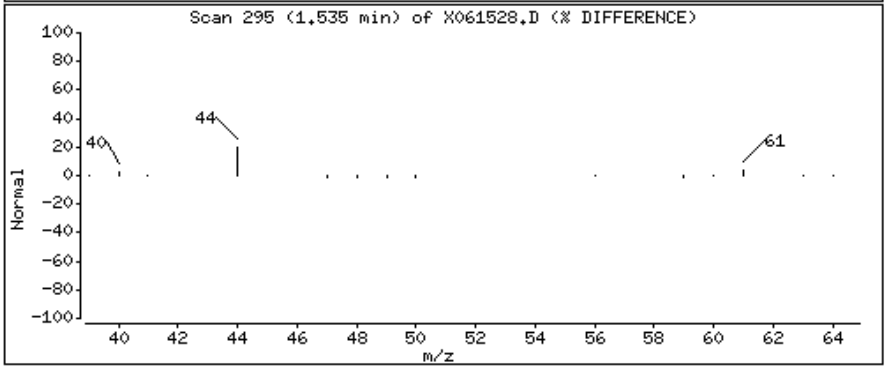












Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061528.D

Date : 16-JUN-2024 00:19

Client ID:

Instrument: voa7.i

Sample Info: HS24060293-01

Purge Volume: 5.0

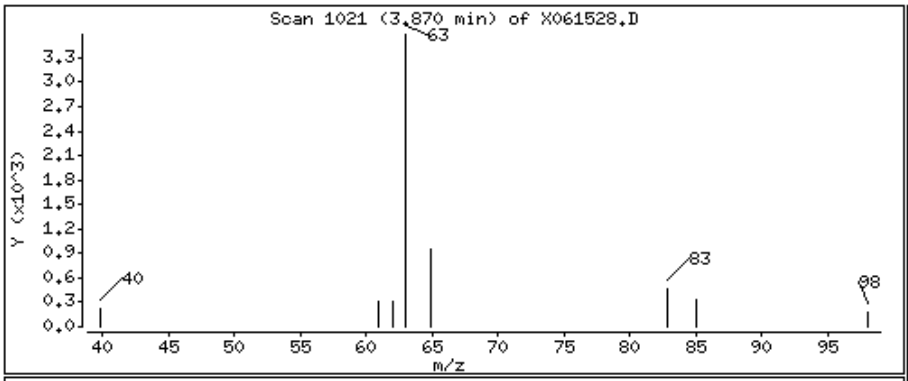
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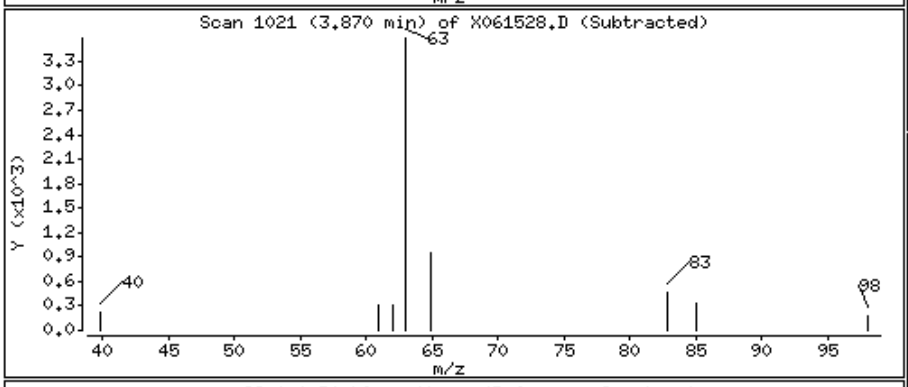
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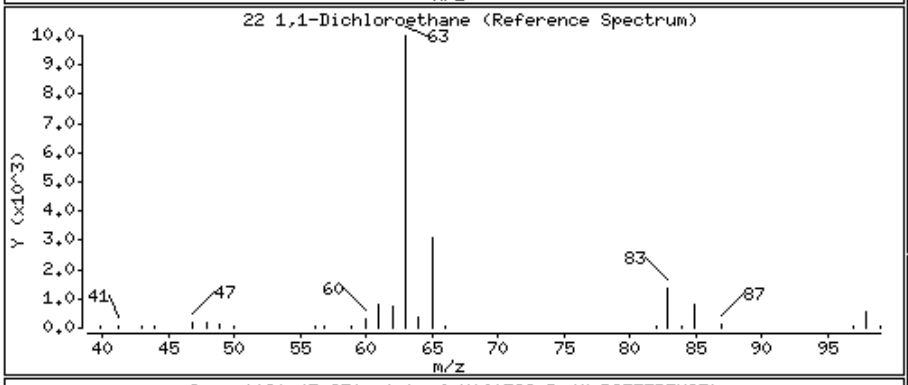
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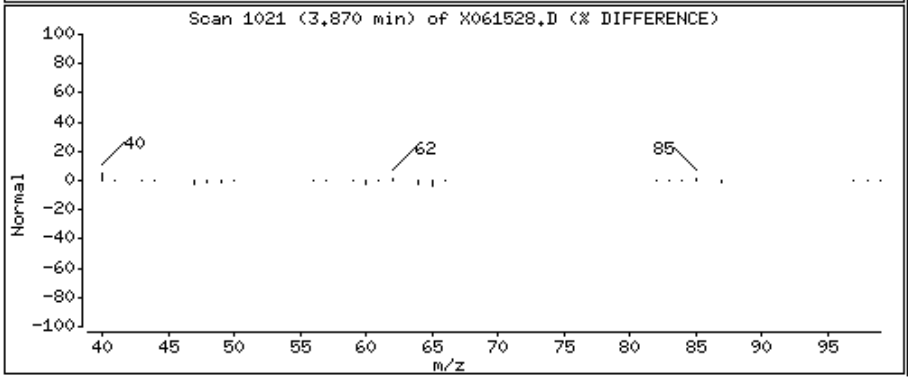
22 1,1-Dichloroethane

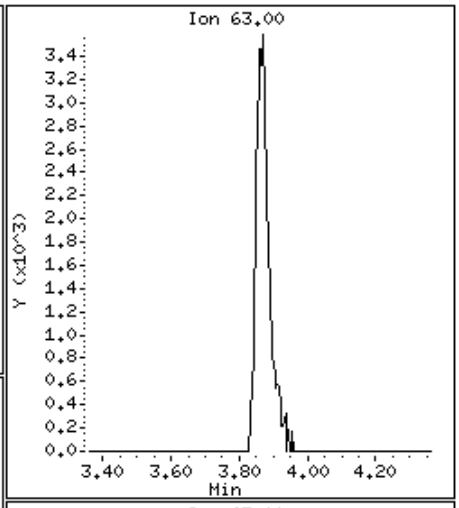
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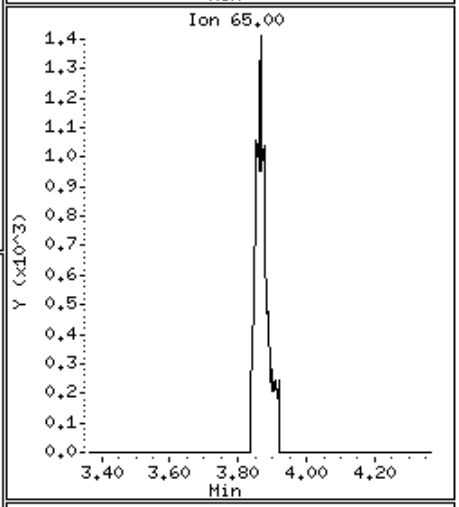


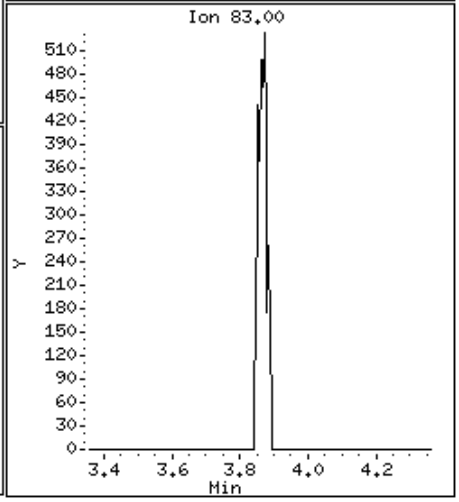












Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061528.D

Date : 16-JUN-2024 00:19

Client ID:

Instrument: voa7.i

Sample Info: HS24060293-01

Purge Volume: 5.0

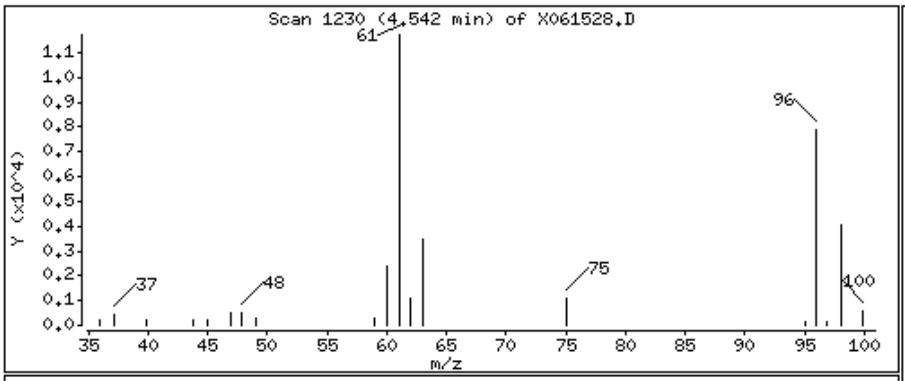
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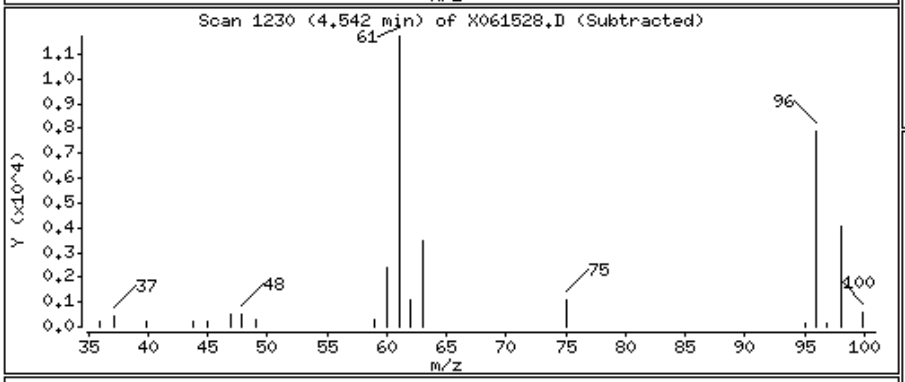
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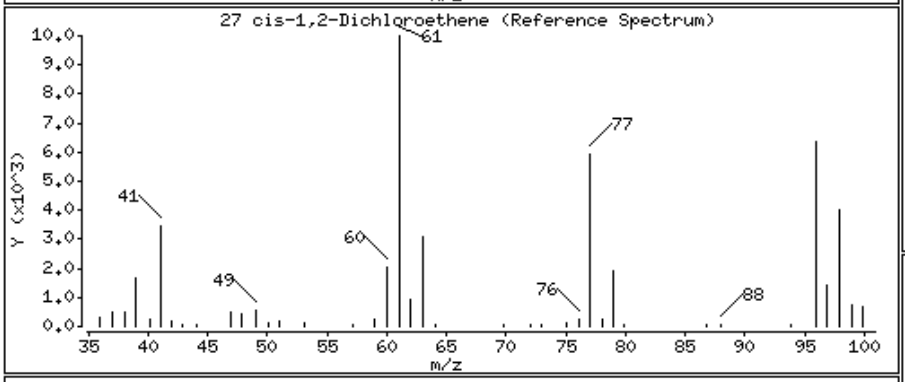
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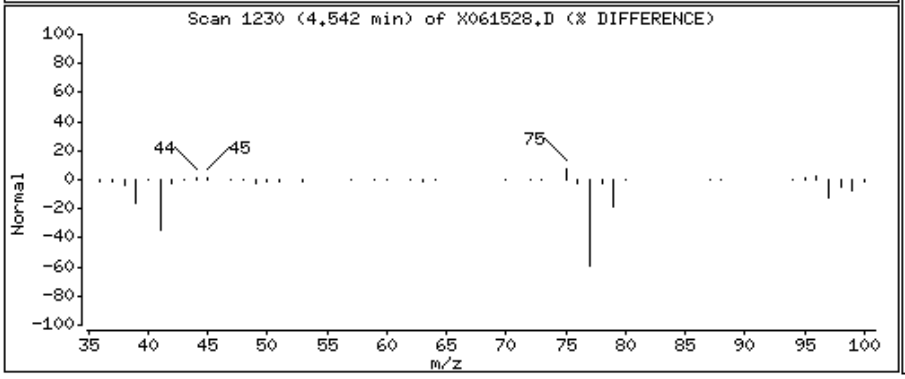
27 cis-1,2-Dichloroethene

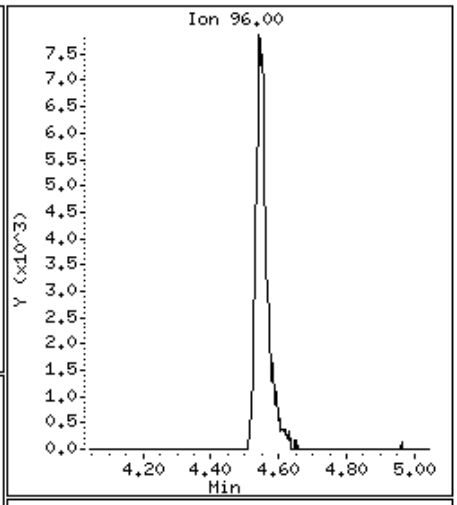
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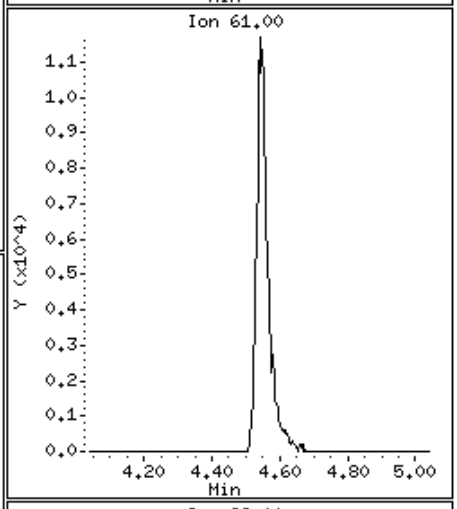


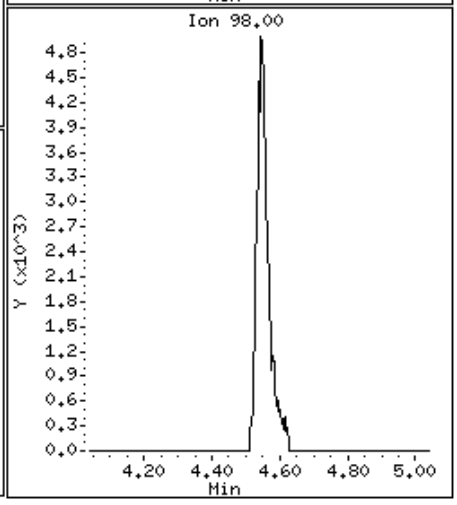












Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061528.D Page 5

Date : 16-JUN-2024 00:19

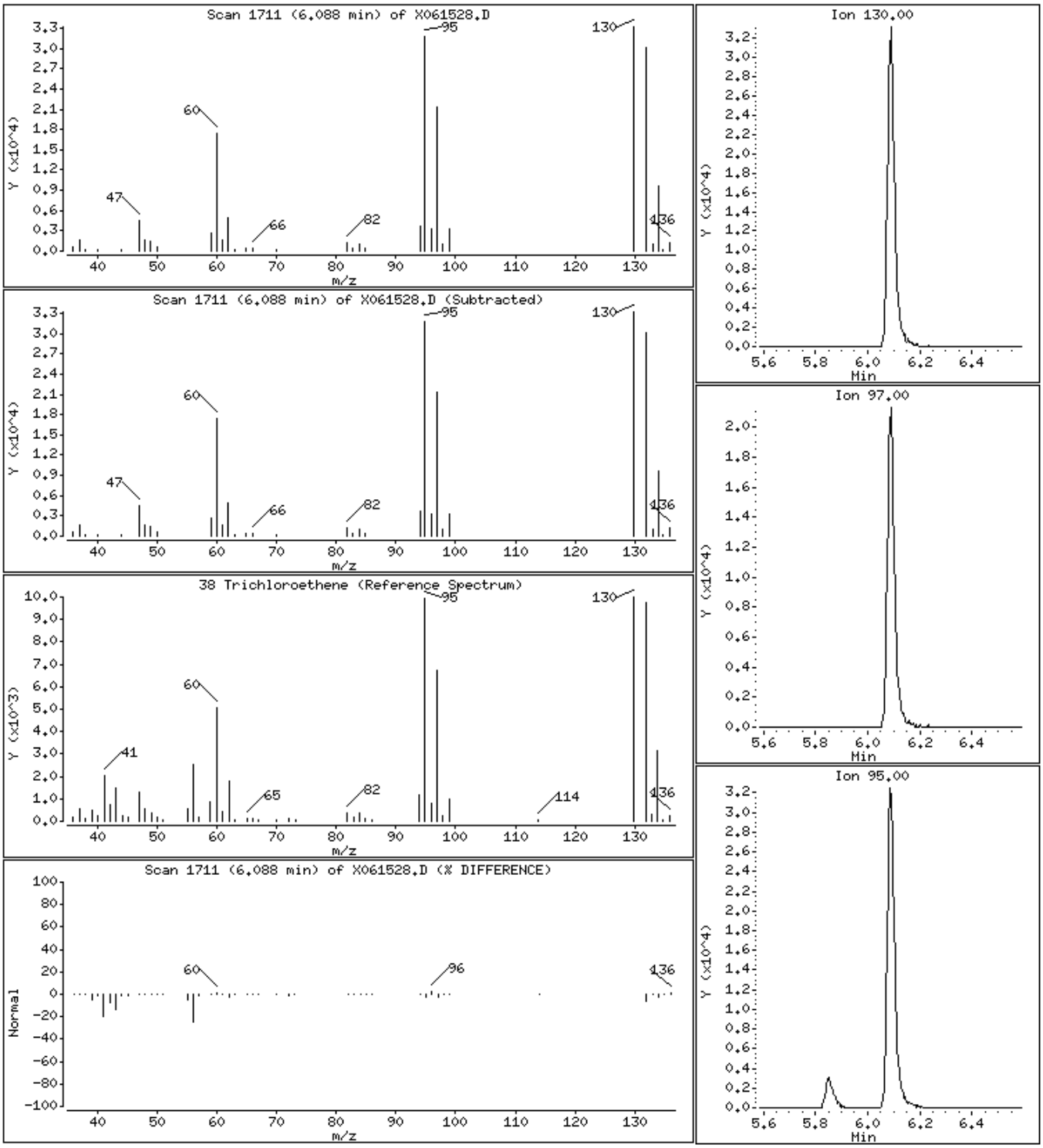
Client ID: Instrument: voa7.i

Sample Info: HS24060293-01

Purge Volume: 5.0 Operator: AP

Column phase: DB624 Column diameter: 0.18

38 Trichloroethene Concentration: 43.81 ug/l



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061528.D Page 6

Date : 16-JUN-2024 00:19

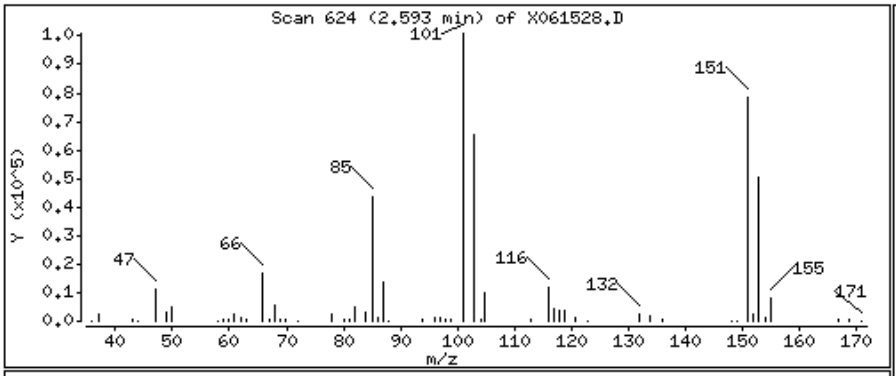
Client ID: Instrument: voa7.i

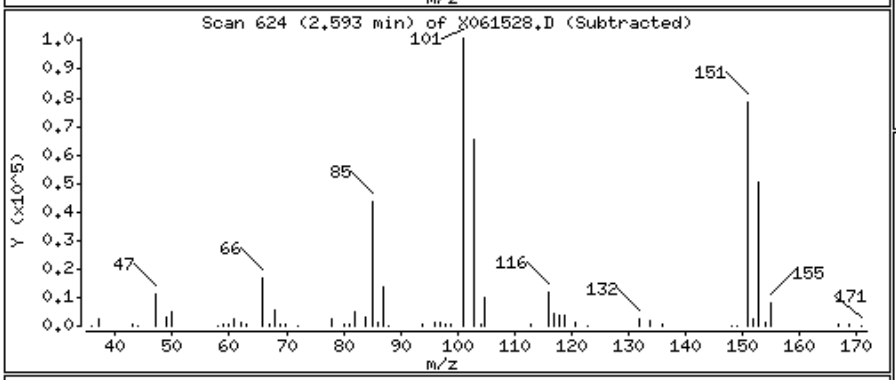
Sample Info: HS24060293-01

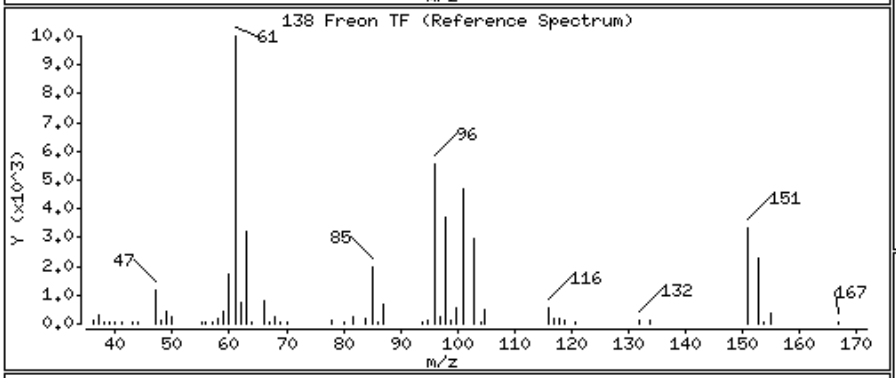
Purge Volume: 5.0 Operator: AP

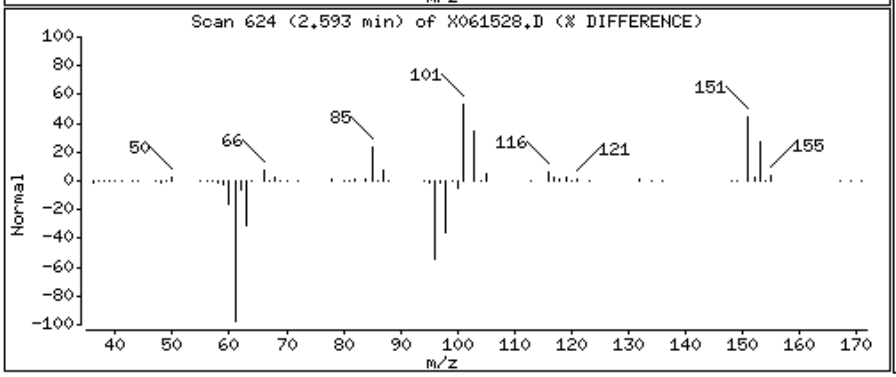
Column phase: DB624 Column diameter: 0.18

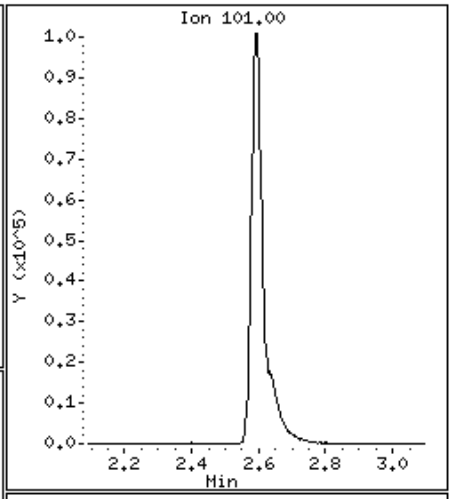
138 Freon TF Concentration: 205.99 ug/l

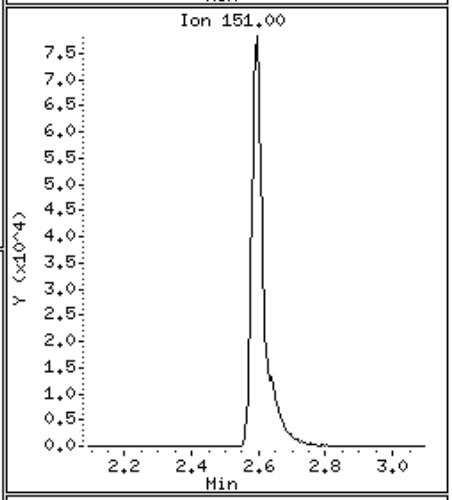


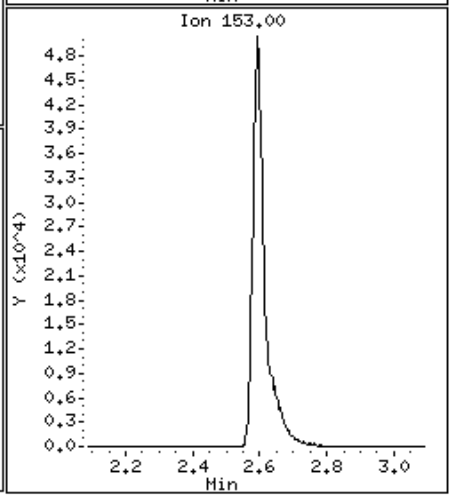










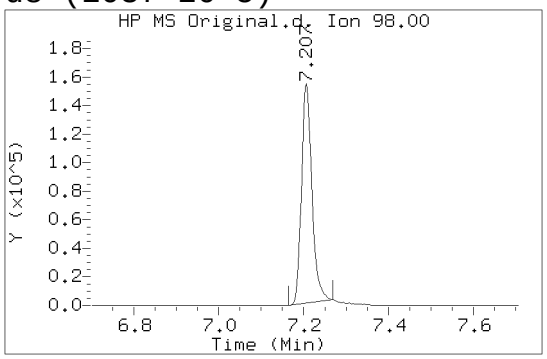


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Inj Date : 16-JUN-2024 00:19
InstruID : voa7.i
LabSampID : HS24060293-01

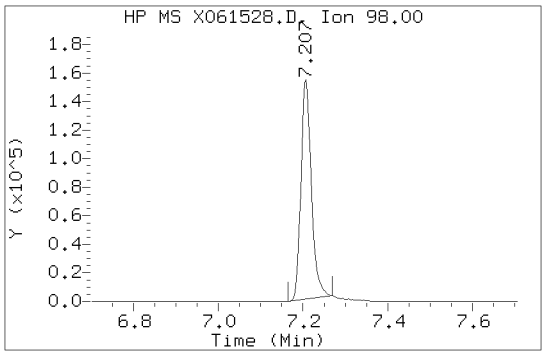
Toluene-d8 (2037-26-5)

Reason Code:

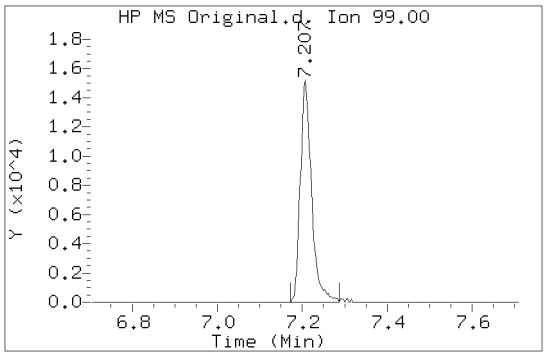
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MASS
98
AREA
260600
HEIGHT
153669
12-Jul-2024
11:43
s
zaid



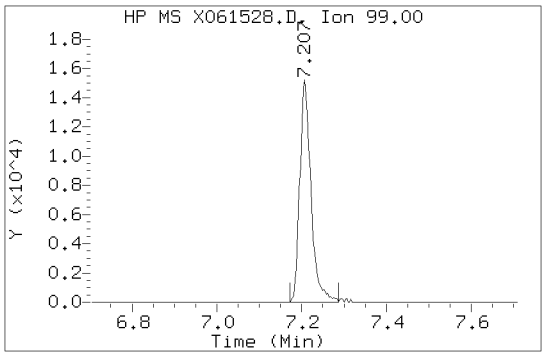
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MASS
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12-Jul-2024
11:43
s
zaid



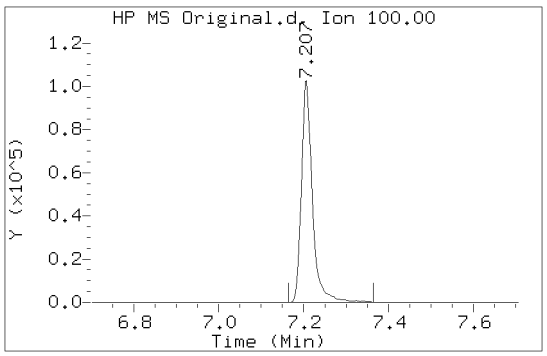
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MASS
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AREA
27878
HEIGHT
15214
12-Jul-2024
11:43
s
zaid



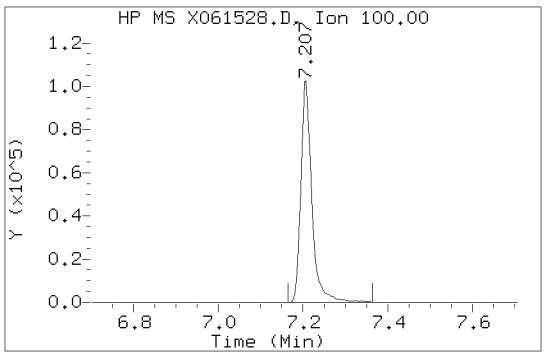
AFTER
MASS
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AREA
27878
HEIGHT
15214
12-Jul-2024
11:43
s
zaid



BEFORE
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AREA
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HEIGHT
102624
12-Jul-2024
11:43
s
zaid



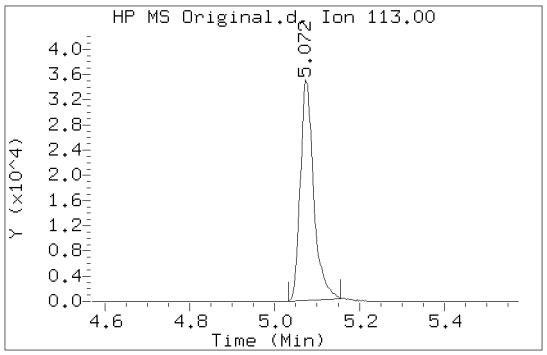
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12-Jul-2024
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s
zaid



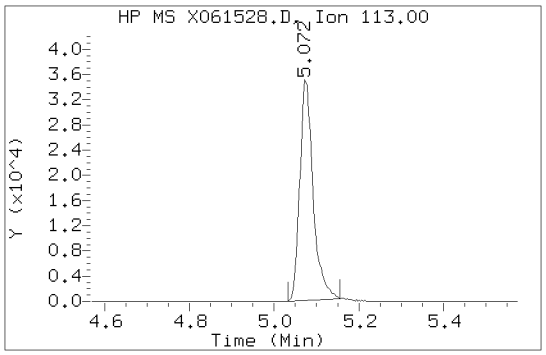
Dibromofluoromethane (1868-53-7)

Reason Code:

BEFORE
MASS
113
AREA
76171
HEIGHT
35036
12-Jul-2024
11:43
s
zaid



AFTER
MASS
113
AREA
76171
HEIGHT
35036
12-Jul-2024
11:43
s
zaid



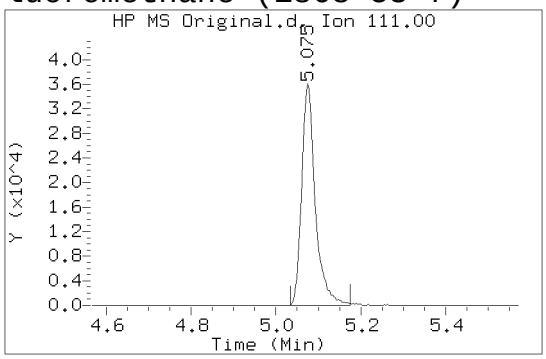
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061528.D
Inj Date : 16-JUN-2024 00:19
InstruID : voa7.i
LabSampID : HS24060293-01

Dibromofluoromethane (1868-53-7)

Reason Code:

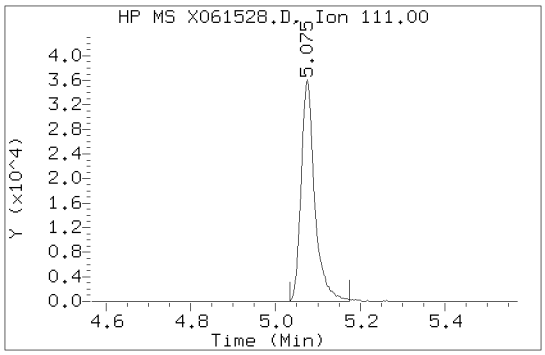
BEFORE

MASS
111
AREA
80035
HEIGHT
36096
12-Jul-2024
11:43
s
zaid



AFTER

MASS
111
AREA
80035
HEIGHT
36096
12-Jul-2024
11:43
s
zaid



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061529.D Page 1
Report Date: 12-Jul-2024 11:39

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061529.D
Lab Smp Id: HS24060293-03
Inj Date : 16-JUN-2024 00:41
Operator : AP   Inst ID: voa7.i
Smp Info : HS24060293-03
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240615.b\8260W.m
Meth Date : 12-Jul-2024 11:38 voa7.i   Quant Type: ISTD
Cal Date : 15-JUN-2024 17:04   Cal File: X061510.D
Als bottle: 27
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

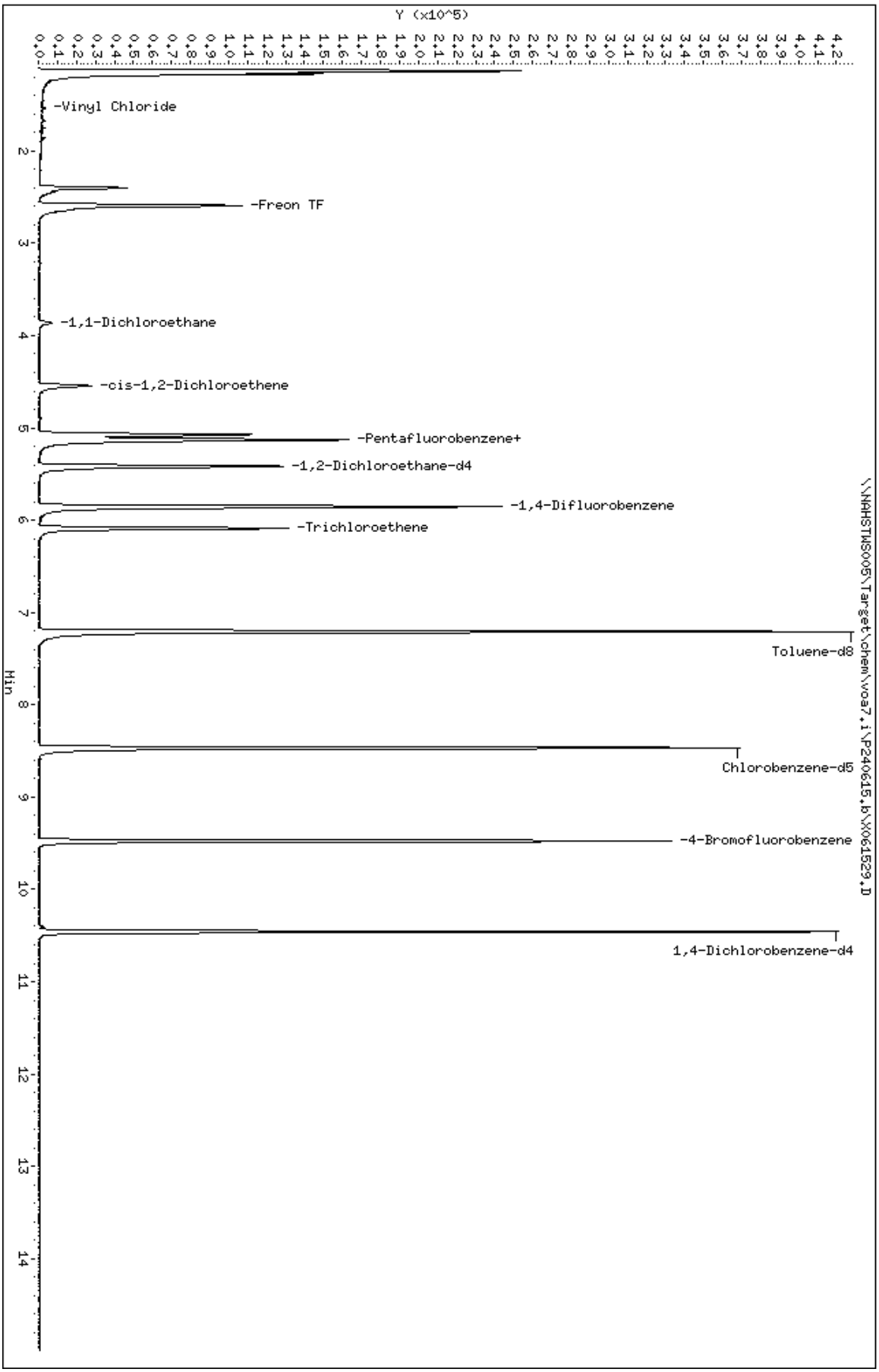
Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
*	1 Pentafluorobenzene	168	5.130	5.133	(1.000)	119907	50.0000	
	5 Vinyl Chloride	62	1.532	1.535	(0.299)	1474	0.73712	0.73(a)
	22 1,1-Dichloroethane	63	3.863	3.863	(0.753)	9461	3.35626	3.35
	27 cis-1,2-Dichloroethene	96	4.548	4.544	(0.887)	13386	8.91830	8.91
$	30 Dibromofluoromethane	113	5.072	5.072	(0.989)	75018	58.8924	58.89(RM)
$	35 1,2-Dichloroethane-d4	65	5.416	5.416	(1.056)	99467	58.5384	58.53(M)
*	36 1,4-Difluorobenzene	114	5.856	5.853	(1.000)	209105	50.0000	
	38 Trichloroethene	130	6.091	6.088	(1.040)	43779	30.3398	30.33
*	47 Chlorobenzene-d5	117	8.467	8.467	(1.000)	198029	50.0000	
$	48 Toluene-d8	98	7.207	7.203	(0.851)	266706	55.8682	55.86(M)
$	69 4-Bromofluorobenzene	95	9.473	9.473	(1.119)	102723	53.7712	53.77
*	70 1,4-Dichlorobenzene-d4	152	10.457	10.457	(1.000)	97703	50.0000	
	138 Freon TF	101	2.593	2.589	(0.505)	56797	46.4959	46.49
M	94 1,2-Dichloroethylene (total)	96				13386	8.91830	8.91

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa7,i\P240615,b\X061529,D
Date : 16-JUN-2024 00:41
Client ID:
Sample Info: HS240602Z3-03
Purge Volume: 5.0
Column phase: DB624

Instrument: voa7,i
Operator: AP
Column diameter: 0.18

Page 1

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061529.D

Date : 16-JUN-2024 00:41

Client ID:

Instrument: voa7.i

Sample Info: HS24060293-03

Purge Volume: 5.0

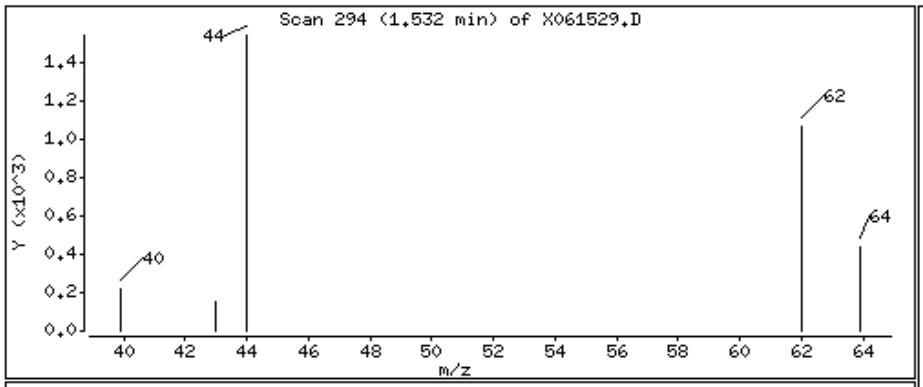
Operator: AP

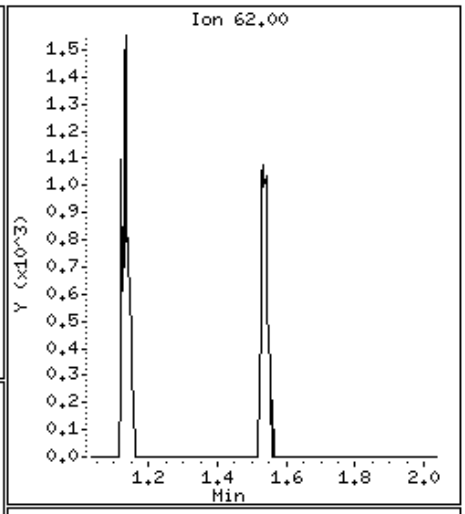
Column phase: DB624

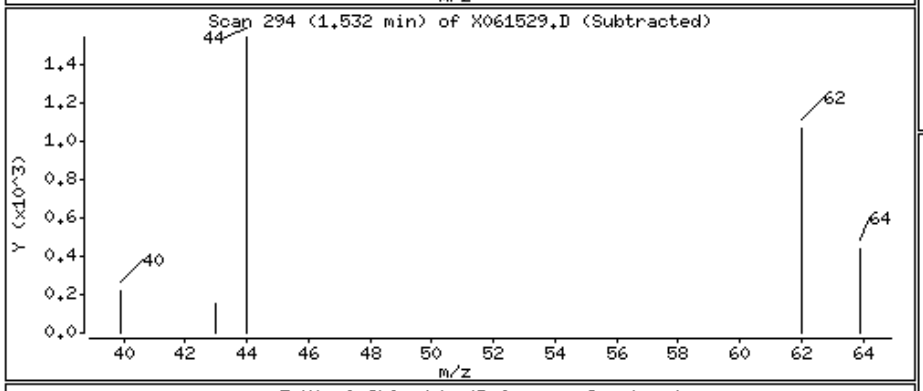
Column diameter: 0.18

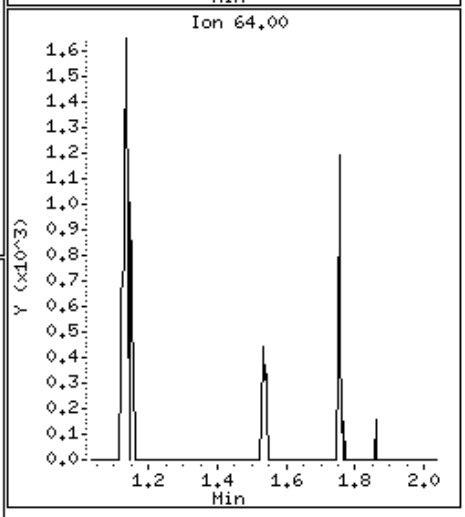
5 Vinyl Chloride

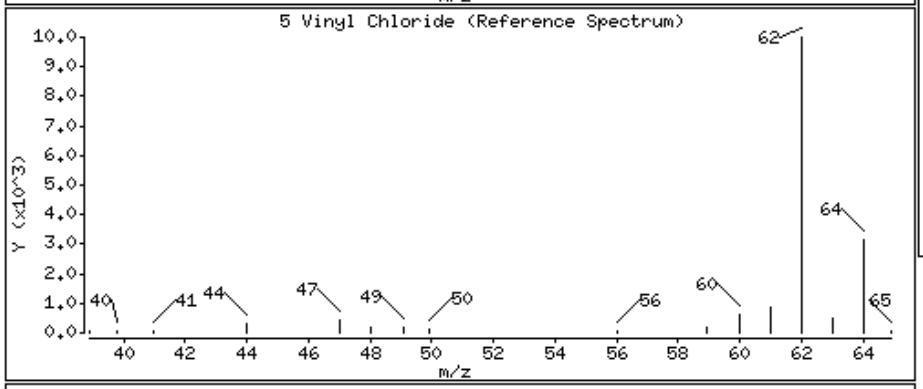
Concentration: 0.73 ug/l

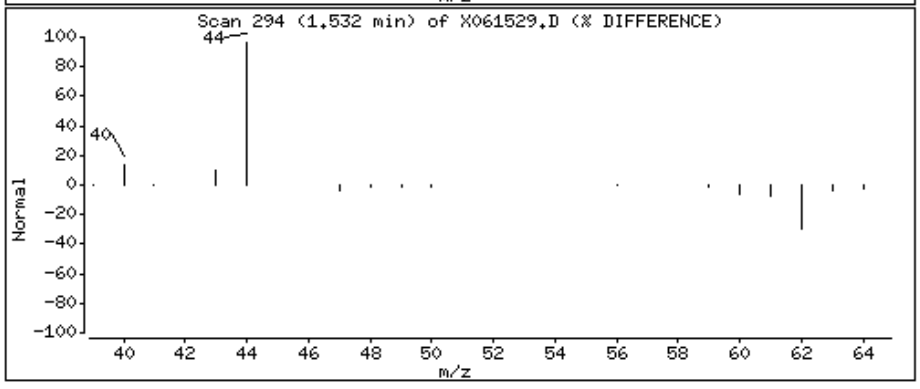












Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061529.D Page 3

Date : 16-JUN-2024 00:41

Client ID:

Instrument: voa7.i

Sample Info: HS24060293-03

Purge Volume: 5.0

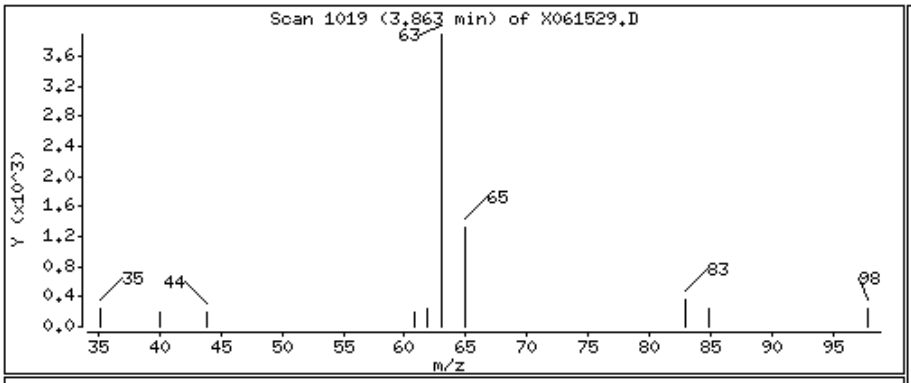
Operator: AP

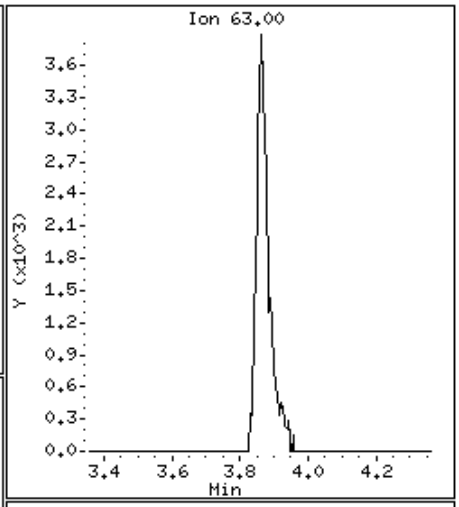
Column phase: DB624

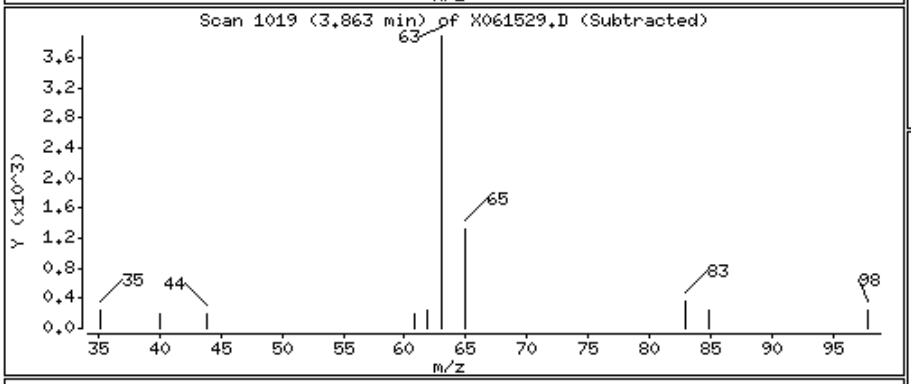
Column diameter: 0.18

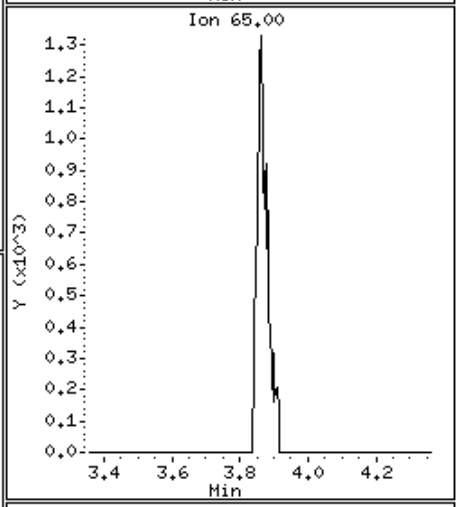
22 1,1-Dichloroethane

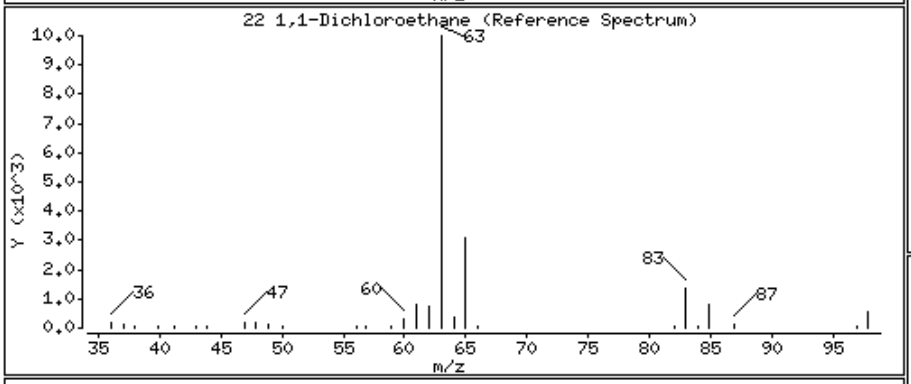
Concentration: 3.35 ug/l

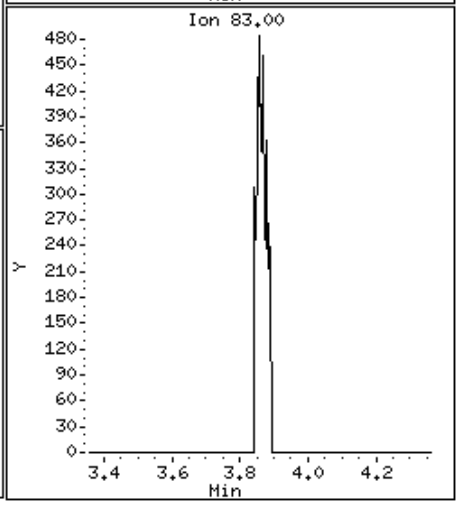


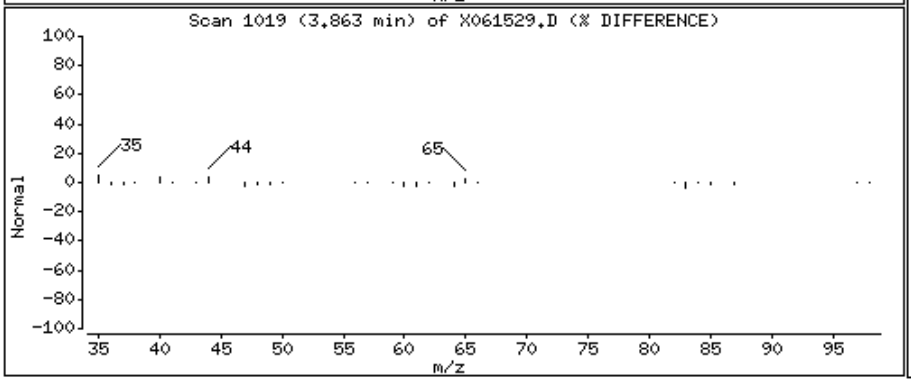












Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061529.D Page 4

Date : 16-JUN-2024 00:41

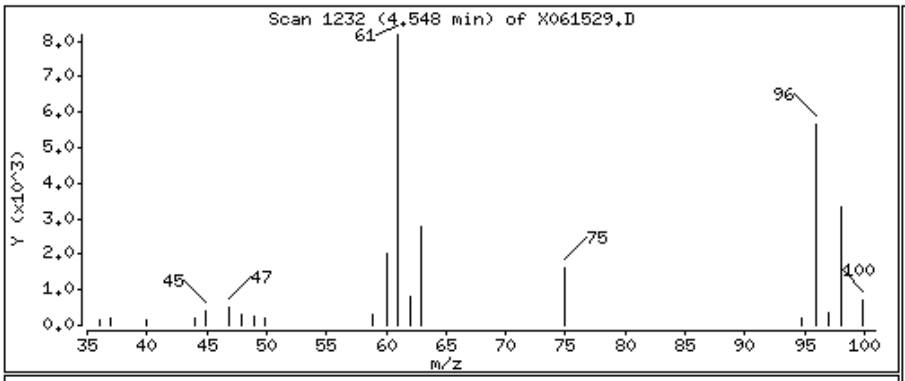
Client ID: Instrument: voa7.i

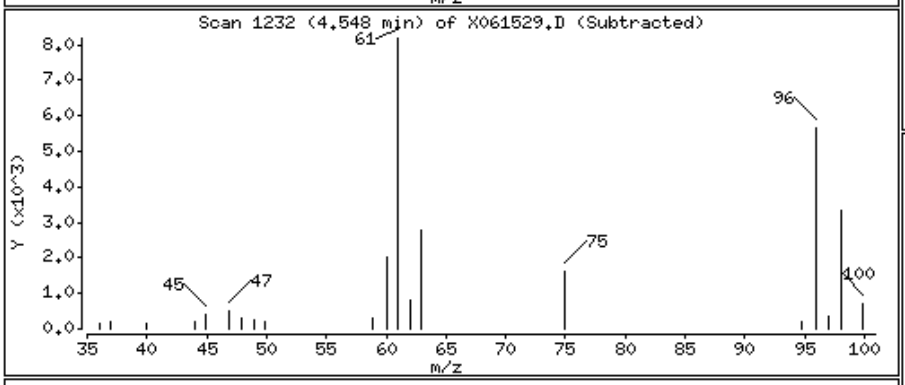
Sample Info: HS24060293-03

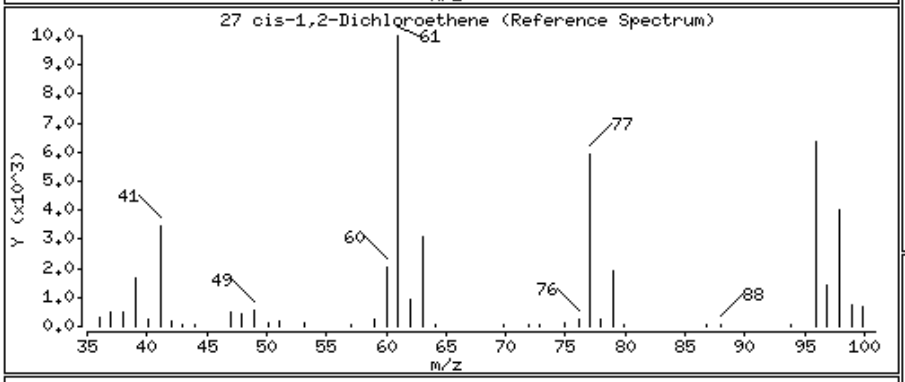
Purge Volume: 5.0 Operator: AP

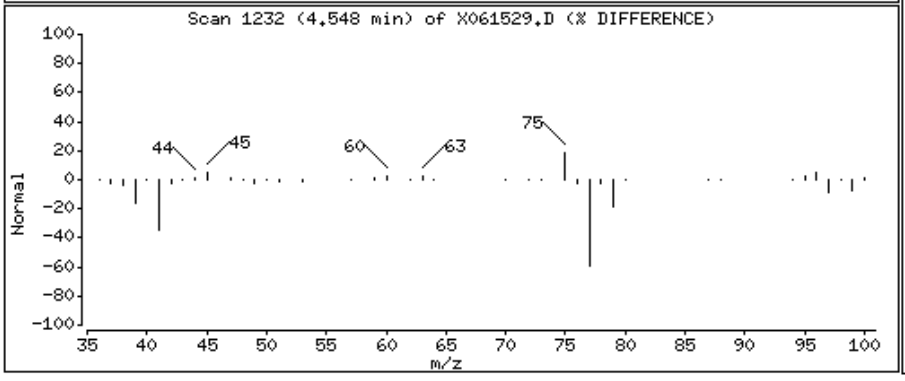
Column phase: DB624 Column diameter: 0.18

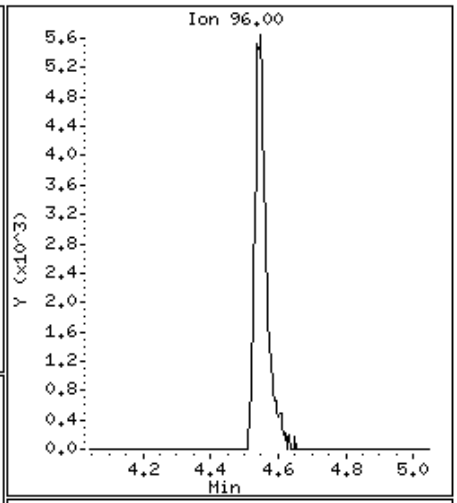
27 cis-1,2-Dichloroethene Concentration: 8.91 ug/l

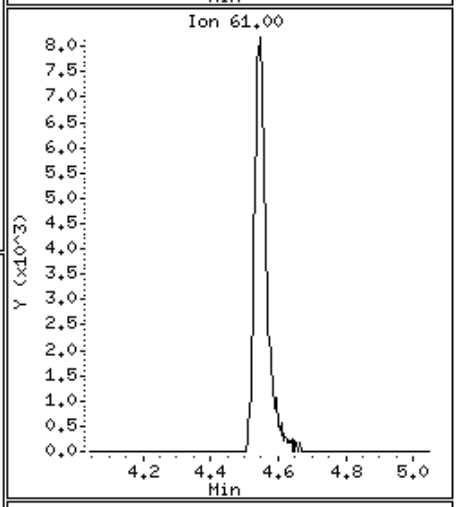


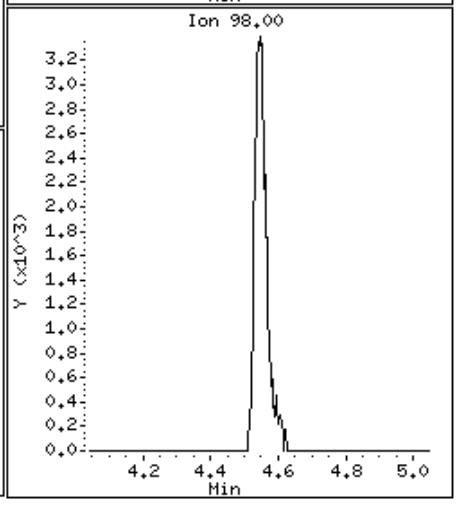












Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061529.D Page 5

Date : 16-JUN-2024 00:41

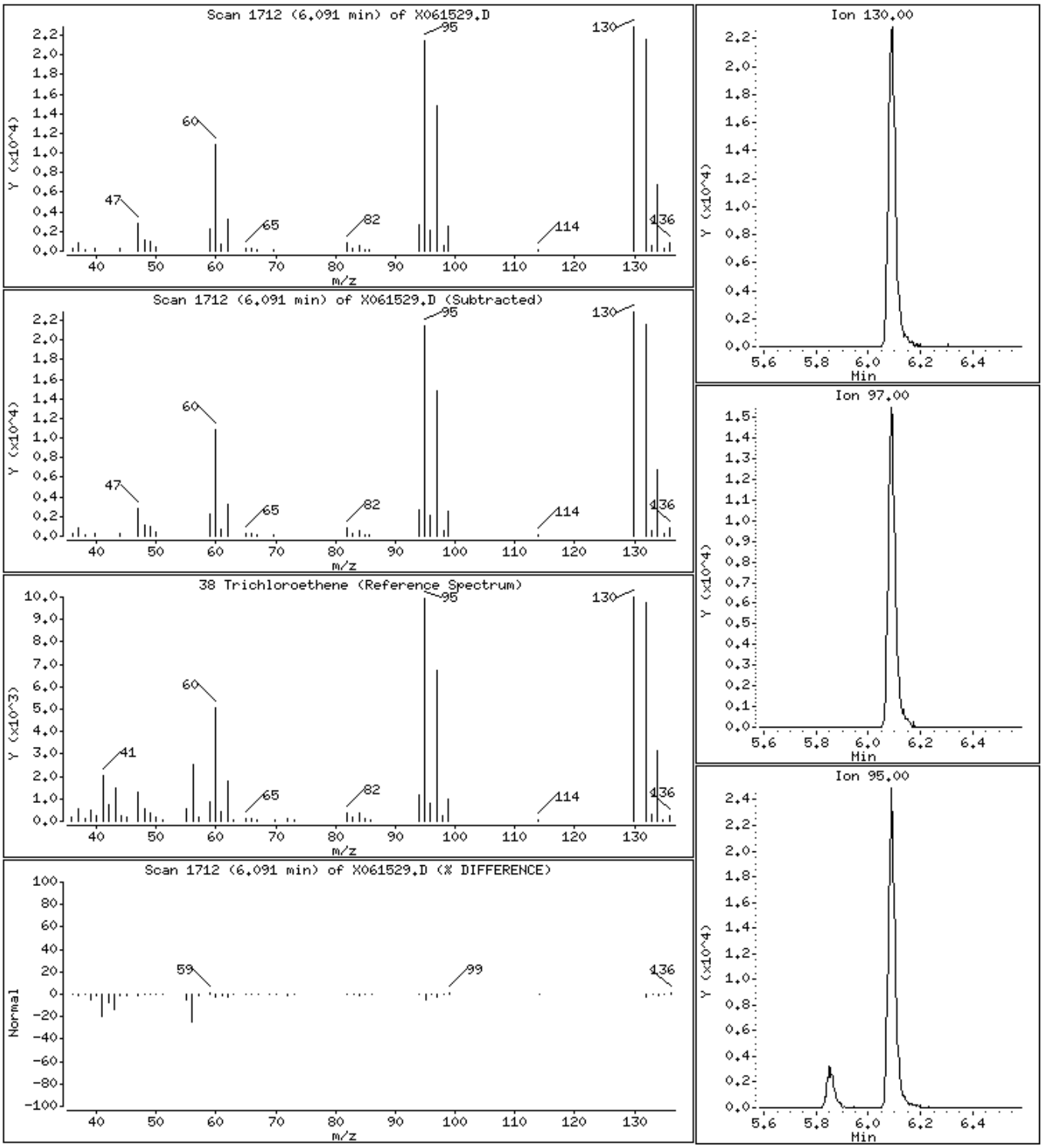
Client ID: Instrument: voa7.i

Sample Info: HS24060293-03

Purge Volume: 5.0 Operator: AP

Column phase: DB624 Column diameter: 0.18

38 Trichloroethene Concentration: 30.33 ug/l



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061529.D

Date : 16-JUN-2024 00:41

Client ID:

Instrument: voa7.i

Sample Info: HS24060293-03

Purge Volume: 5.0

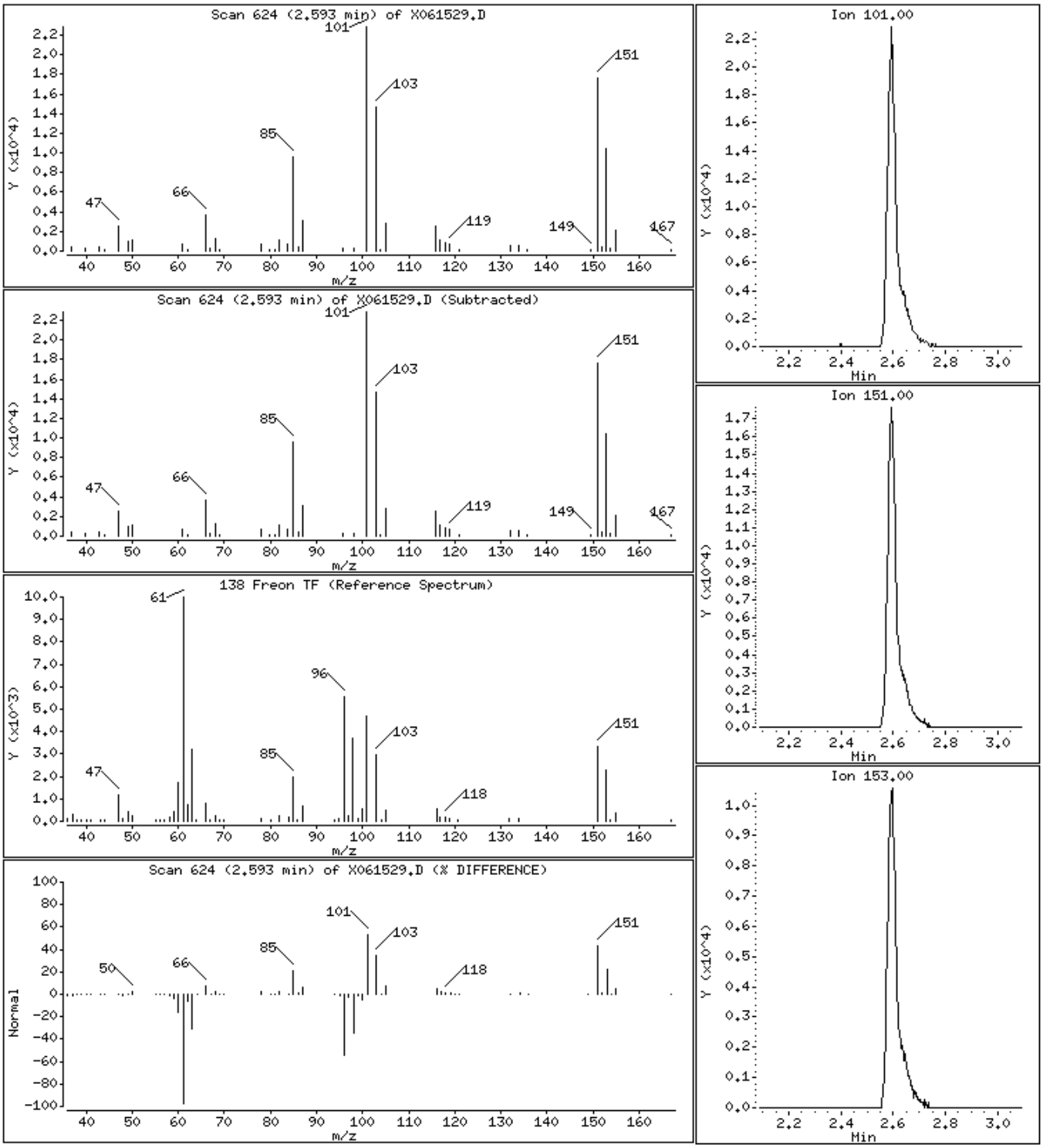
Operator: AP

Column phase: DB624

Column diameter: 0.18

138 Freon TF

Concentration: 46.49 ug/l

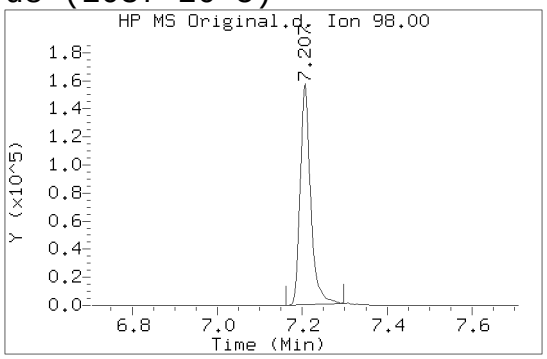


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Inj Date : 16-JUN-2024 00:41
InstruID : voa7.i
LabSampID : HS24060293-03

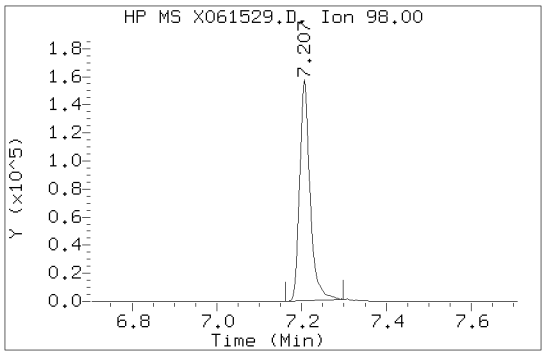
Toluene-d8 (2037-26-5)

Reason Code:

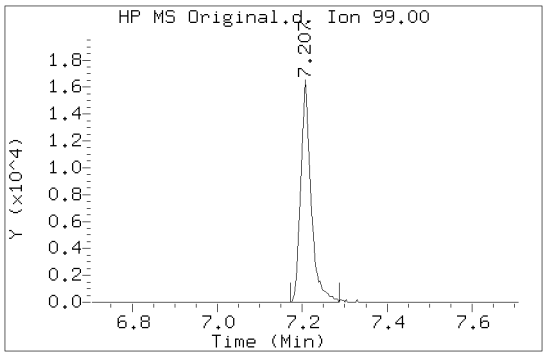
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HEIGHT
157375
12-Jul-2024
11:38
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zaid



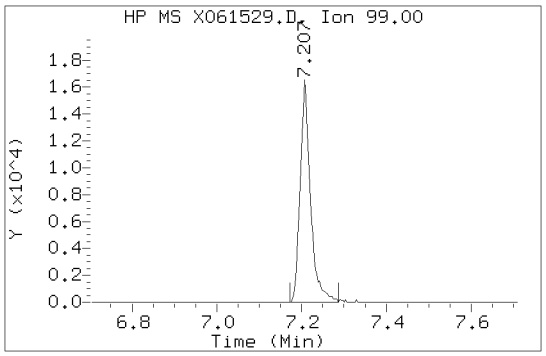
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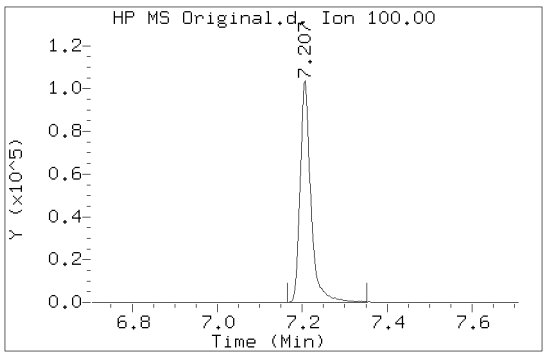
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27771
HEIGHT
16536
12-Jul-2024
11:38
s
zaid



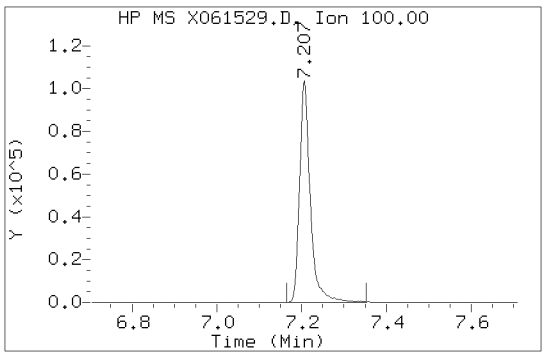
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99
AREA
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HEIGHT
16536
12-Jul-2024
11:38
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BEFORE
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103672
12-Jul-2024
11:38
s
zaid



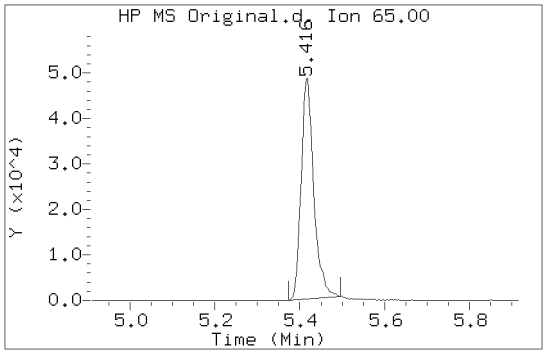
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HEIGHT
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12-Jul-2024
11:38
s
zaid



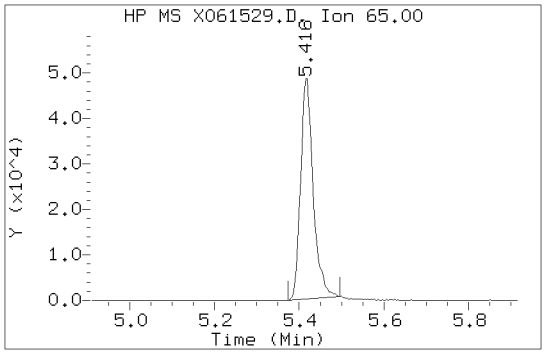
1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

BEFORE
MASS
65
AREA
99467
HEIGHT
48433
12-Jul-2024
11:38
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zaid



AFTER
MASS
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AREA
99467
HEIGHT
48433
12-Jul-2024
11:38
s
zaid



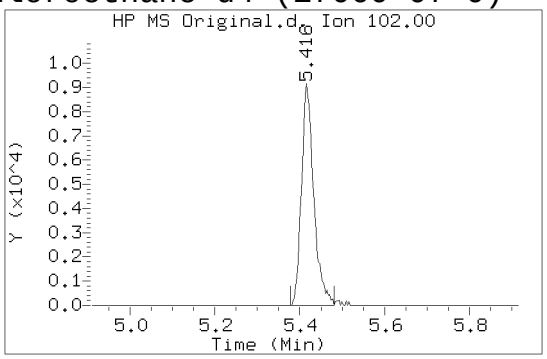
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Inj Date : 16-JUN-2024 00:41
InstruID : voa7.i
LabSampID : HS24060293-03

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

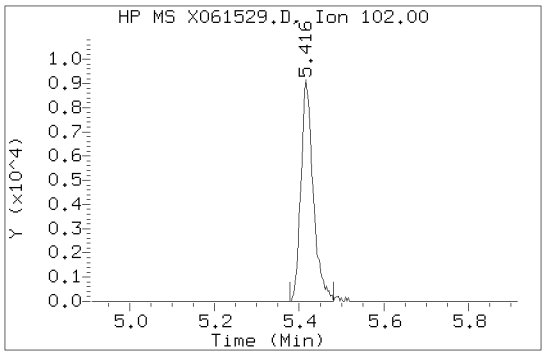
BEFORE

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AREA
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HEIGHT
9156
12-Jul-2024
11:38
s
zaid



AFTER

MASS
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AREA
18283
HEIGHT
9156
12-Jul-2024
11:38
s
zaid

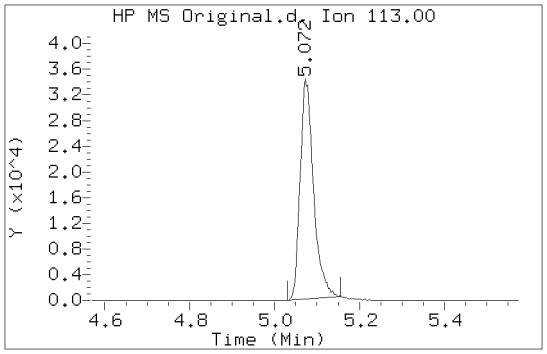


Dibromofluoromethane (1868-53-7)

Reason Code:

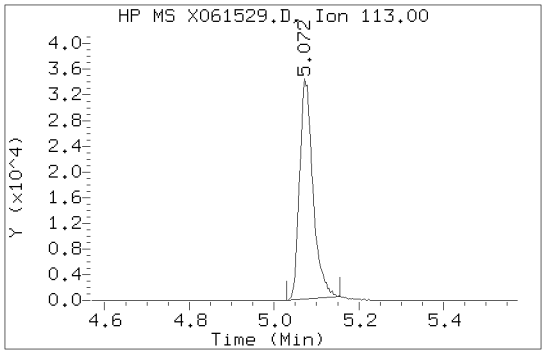
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AREA
75018
HEIGHT
34341
12-Jul-2024
11:38
s
zaid



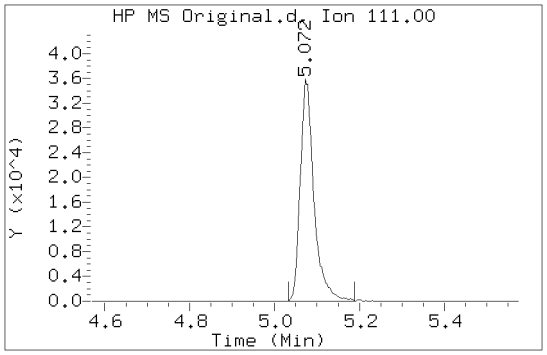
AFTER

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113
AREA
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12-Jul-2024
11:38
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zaid



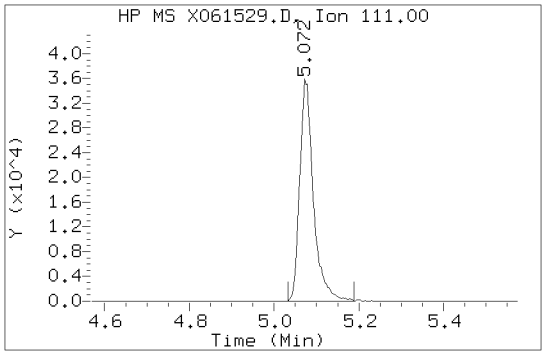
BEFORE

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AREA
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HEIGHT
35928
12-Jul-2024
11:38
s
zaid



AFTER

MASS
111
AREA
80061
HEIGHT
35928
12-Jul-2024
11:38
s
zaid



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061530.D Page 1
Report Date: 12-Jul-2024 11:39

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061530.D
Lab Smp Id: HS24060293-04
Inj Date : 16-JUN-2024 01:04
Operator : AP   Inst ID: voa7.i
Smp Info : HS24060293-04
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240615.b\8260W.m
Meth Date : 12-Jul-2024 11:38 voa7.i   Quant Type: ISTD
Cal Date : 15-JUN-2024 17:04   Cal File: X061510.D
Als bottle: 28
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

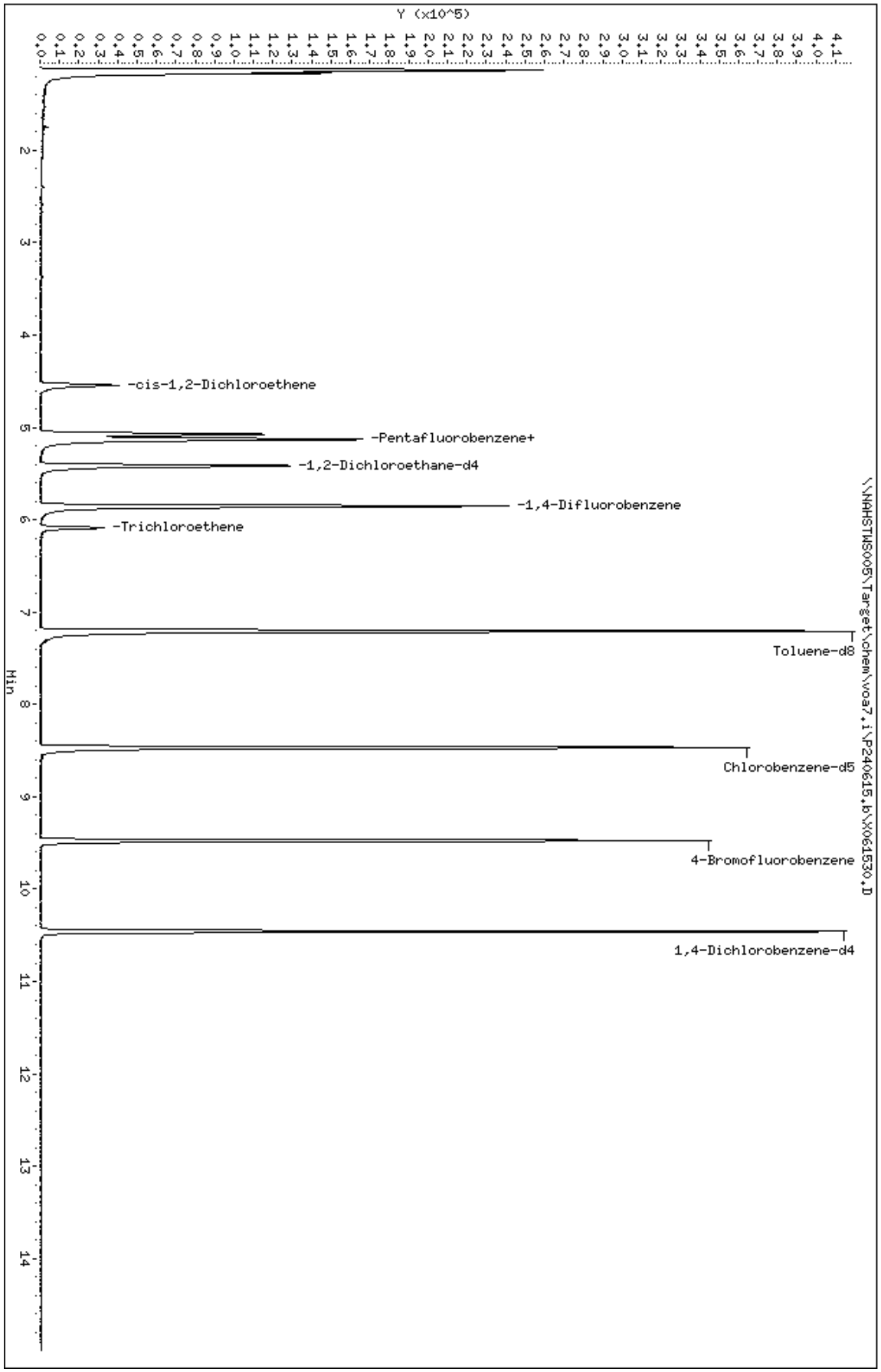
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
*	1 Pentafluorobenzene	168	5.130	5.133	(1.000)	122627	50.0000	
	27 cis-1,2-Dichloroethene	96	4.544	4.544	(0.886)	20428	13.5698	13.56
$	30 Dibromofluoromethane	113	5.072	5.072	(0.989)	76111	58.4138	58.41(RM)
$	35 1,2-Dichloroethane-d4	65	5.416	5.416	(1.056)	100201	57.6366	57.63(M)
*	36 1,4-Difluorobenzene	114	5.853	5.853	(1.000)	207902	50.0000	
	38 Trichloroethene	130	6.088	6.088	(1.040)	10886	7.47967	7.47
*	47 Chlorobenzene-d5	117	8.467	8.467	(1.000)	195961	50.0000	
$	48 Toluene-d8	98	7.203	7.203	(0.851)	277251	58.7556	58.75(RM)
$	69 4-Bromofluorobenzene	95	9.473	9.473	(1.119)	104570	55.3778	55.37
*	70 1,4-Dichlorobenzene-d4	152	10.457	10.457	(1.000)	95080	50.0000	
M	94 1,2-Dichloroethylene (total)	96				20428	13.5698	13.56

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061530.D
Date : 16-JUN-2024 01:04
Client ID:
Sample Info: HS2406293-04
Purge Volume: 5.0
Column phase: DB624

Instrument: voa7.i
Operator: AP
Column diameter: 0.18

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061530.D

Date : 16-JUN-2024 01:04

Client ID:

Instrument: voa7.i

Sample Info: HS24060293-04

Purge Volume: 5.0

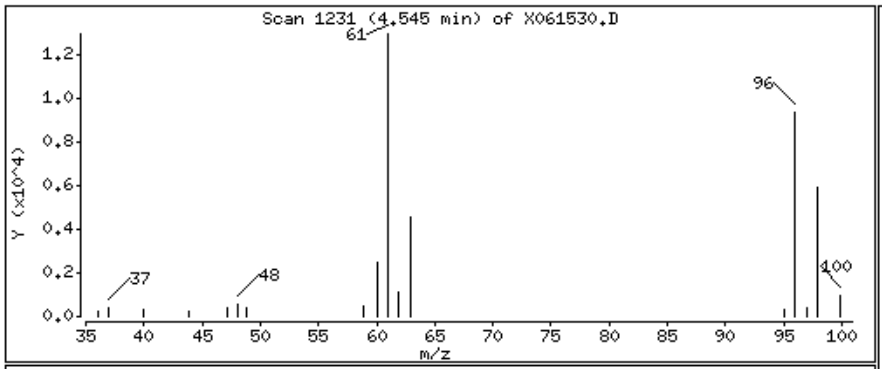
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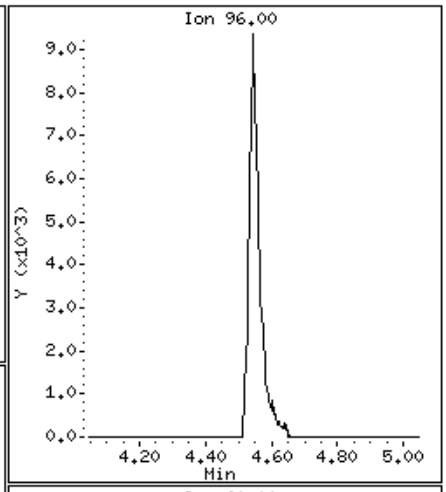
Column phase: DB624

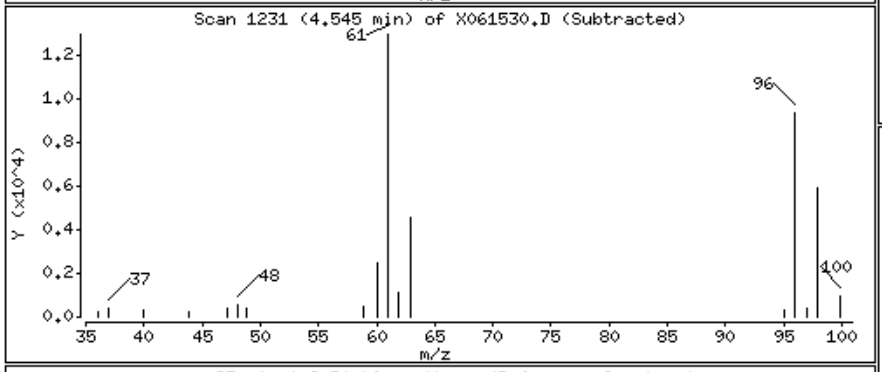
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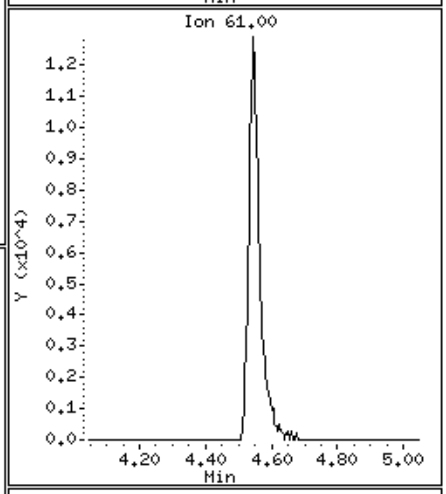
27 cis-1,2-Dichloroethene

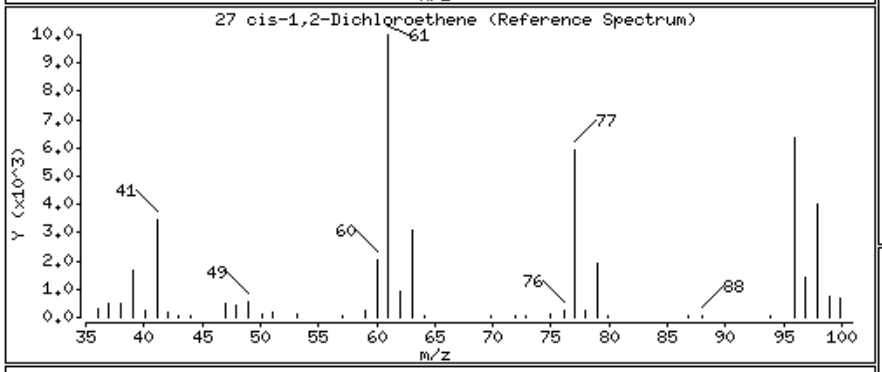
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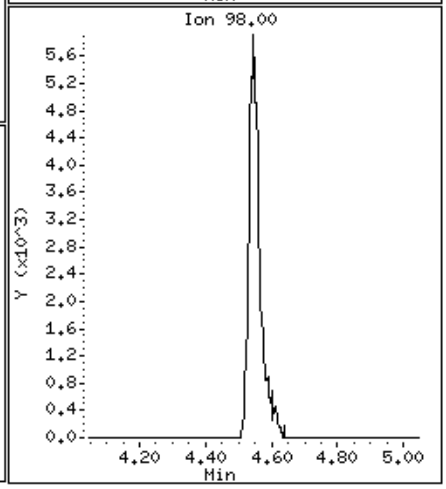


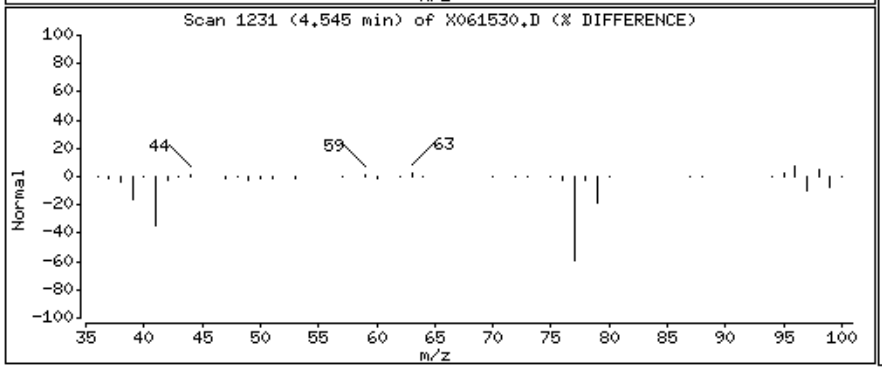












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Date : 16-JUN-2024 01:04

Client ID:

Instrument: voa7.i

Sample Info: HS24060293-04

Purge Volume: 5.0

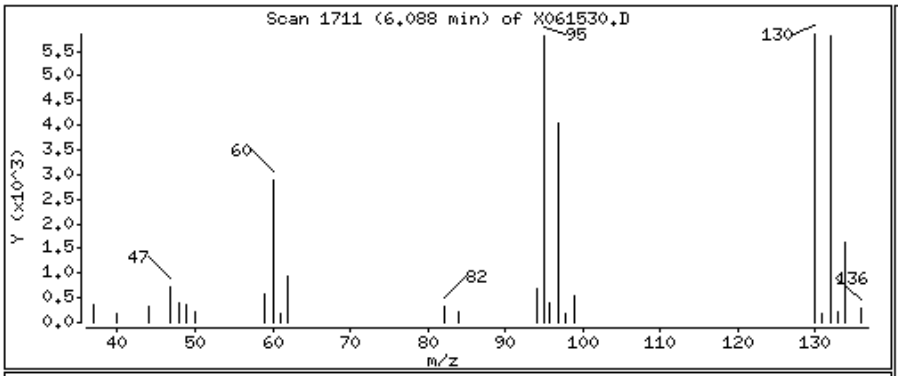
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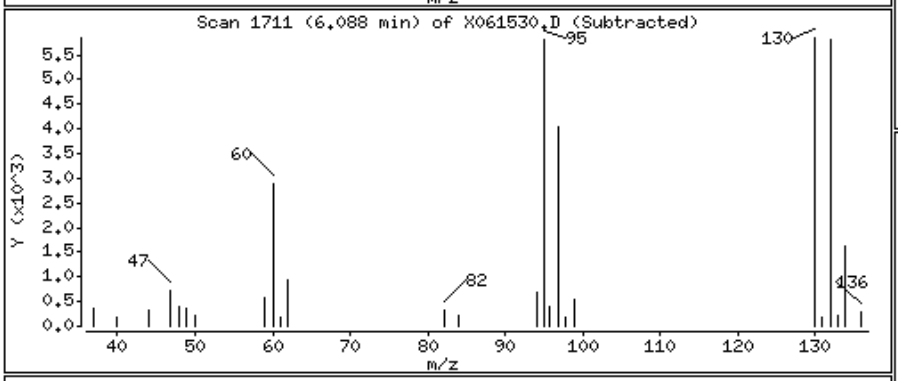
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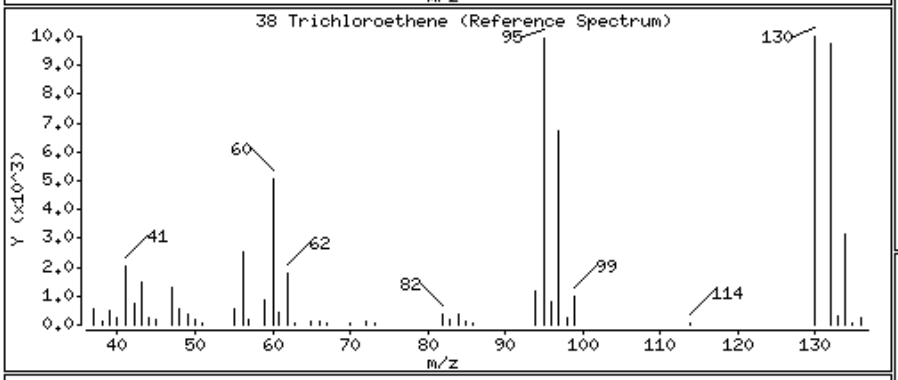
Column diameter: 0.18

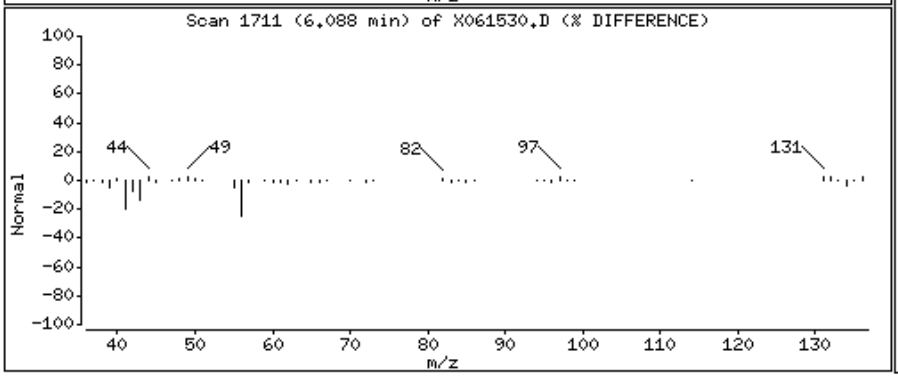
38 Trichloroethene

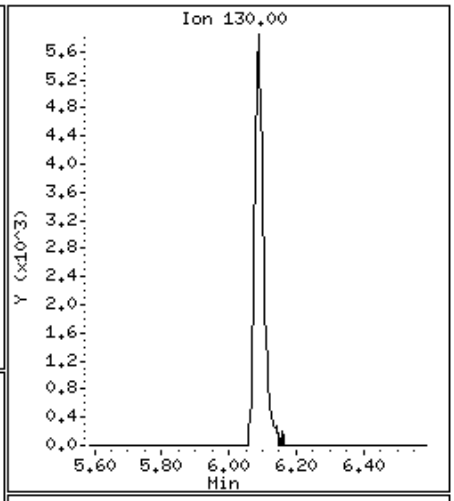
Concentration: 7.47 ug/l

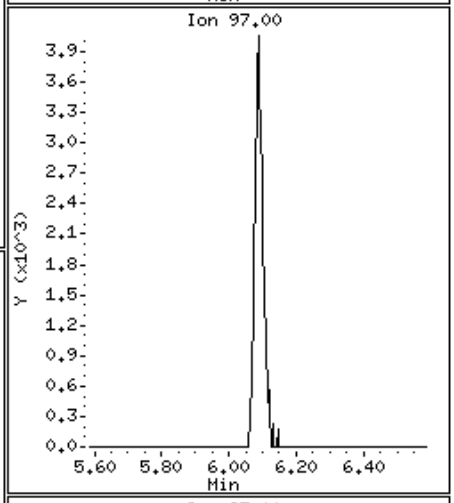


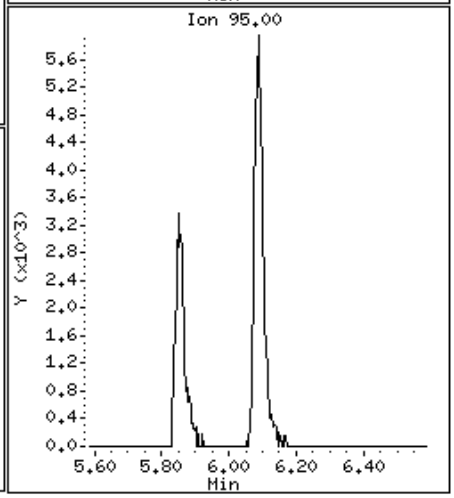












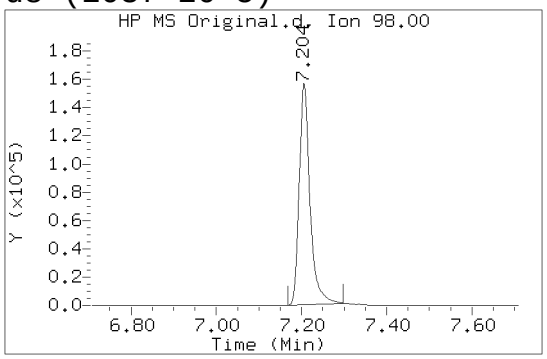
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Inj Date : 16-JUN-2024 01:04
InstruID : voa7.i
LabSampID : HS24060293-04

Toluene-d8 (2037-26-5)

Reason Code:

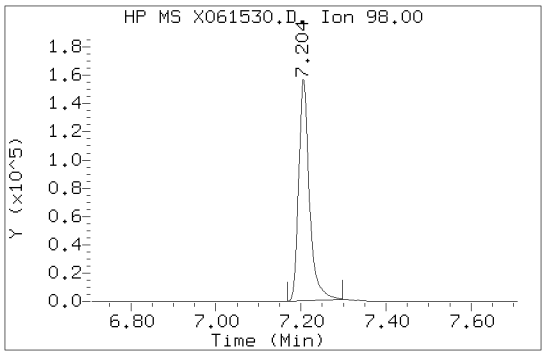
BEFORE

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12-Jul-2024
11:38
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zaid



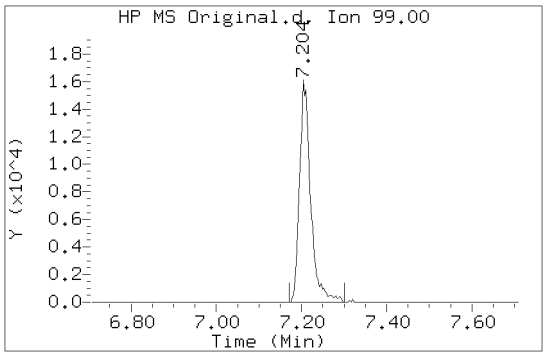
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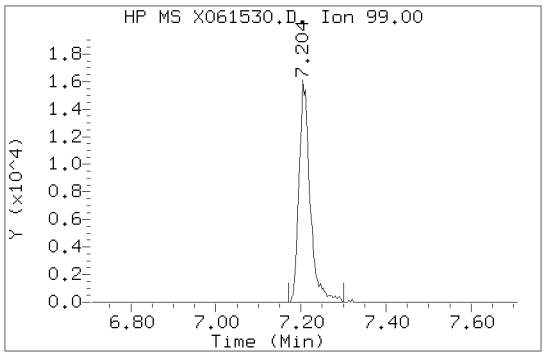
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HEIGHT
16122
12-Jul-2024
11:38
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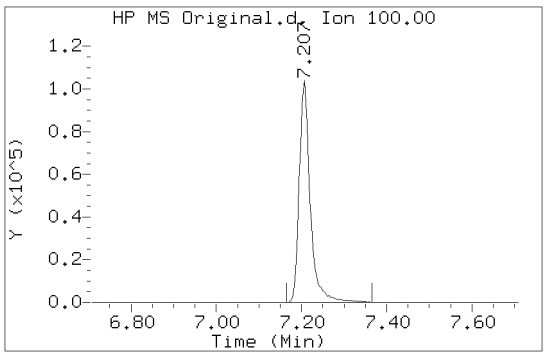
AFTER

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HEIGHT
16122
12-Jul-2024
11:38
s
zaid



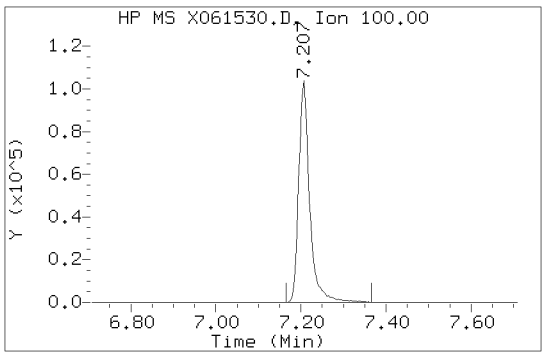
BEFORE

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AREA
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HEIGHT
103840
12-Jul-2024
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AFTER

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103840
12-Jul-2024
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zaid

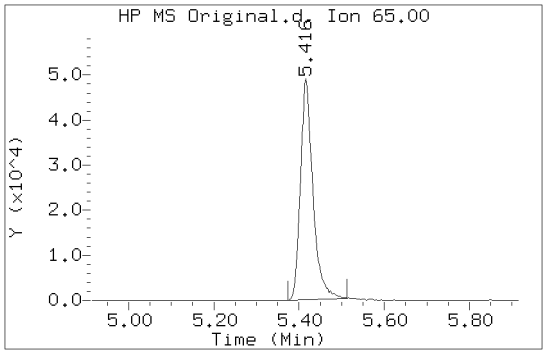


1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

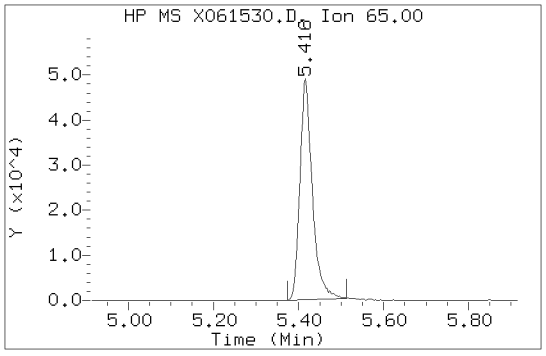
BEFORE

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49055
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AFTER

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12-Jul-2024
11:38
s
zaid



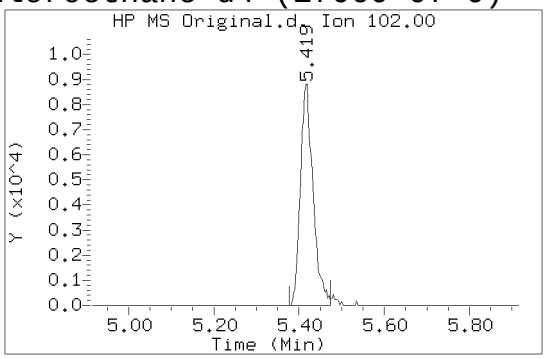
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061530.D
Inj Date : 16-JUN-2024 01:04
InstruID : voa7.i
LabSampID : HS24060293-04

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

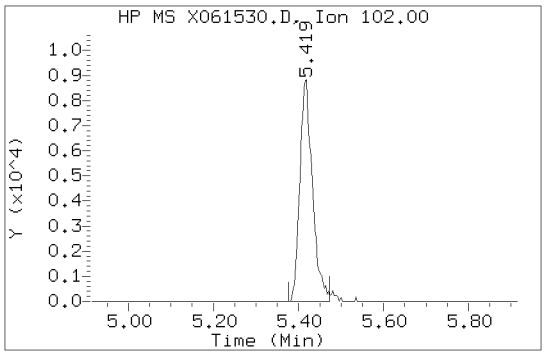
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12-Jul-2024
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zaid



AFTER

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HEIGHT
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12-Jul-2024
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s
zaid

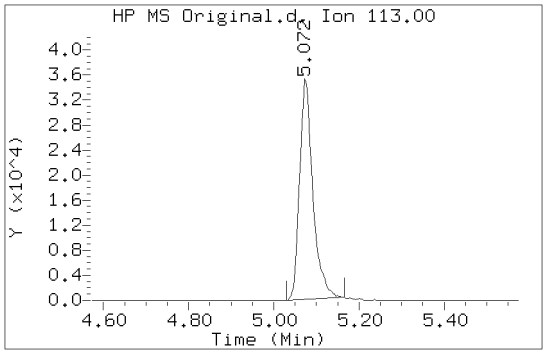


Dibromofluoromethane (1868-53-7)

Reason Code:

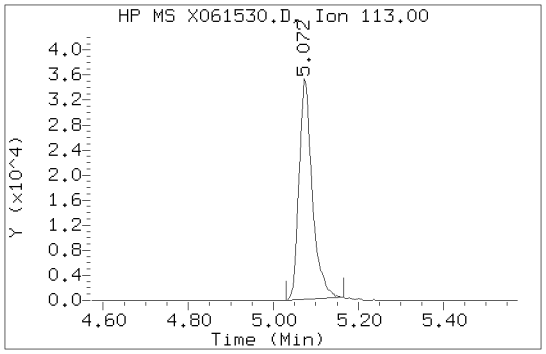
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zaid



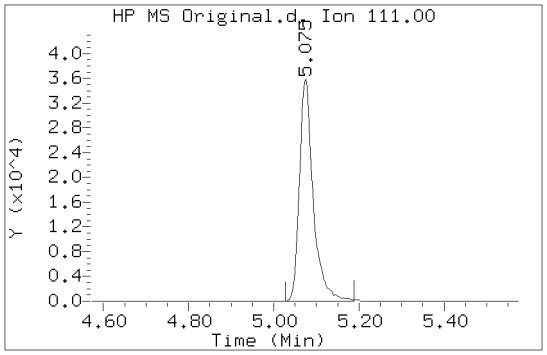
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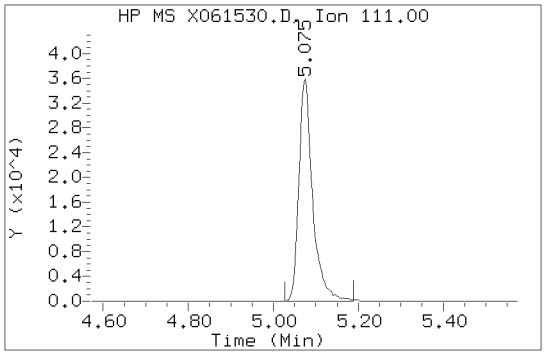
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AFTER

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HEIGHT
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12-Jul-2024
11:38
s
zaid



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061531.D Page 1
Report Date: 12-Jul-2024 11:39

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061531.D
Lab Smp Id: HS24060293-05
Inj Date : 16-JUN-2024 01:27
Operator : AP   Inst ID: voa7.i
Smp Info : HS24060293-05
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240615.b\8260W.m
Meth Date : 12-Jul-2024 11:38 voa7.i   Quant Type: ISTD
Cal Date : 15-JUN-2024 17:04   Cal File: X061510.D
Als bottle: 29
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

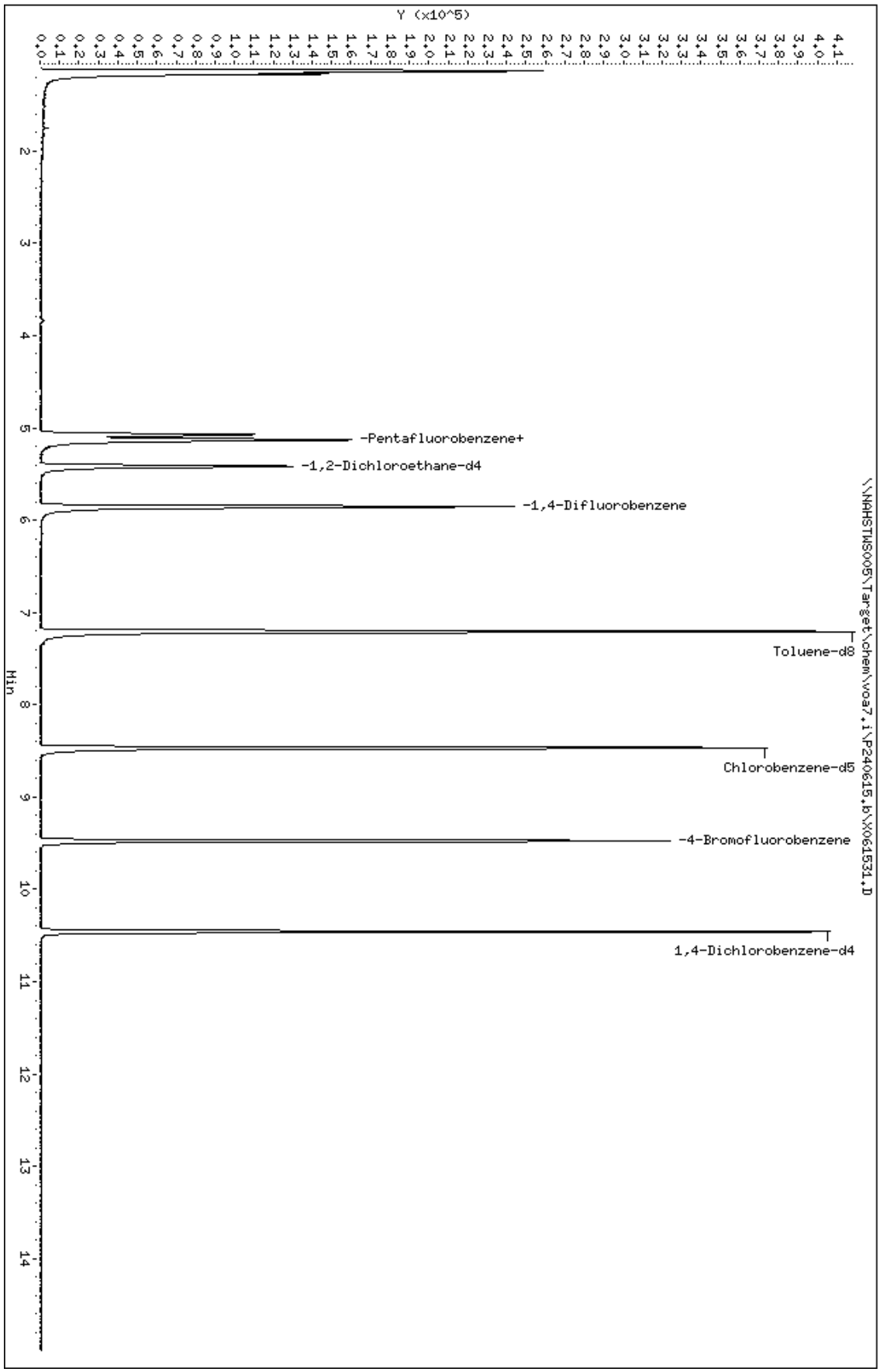
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	5.133	5.133	(1.000)	123243	50.0000	
$ 30 Dibromofluoromethane	113	5.072	5.072	(0.988)	76961	58.7797	58.77(R)
$ 35 1,2-Dichloroethane-d4	65	5.416	5.416	(1.055)	101631	58.1827	58.18
* 36 1,4-Difluorobenzene	114	5.853	5.853	(1.000)	208758	50.0000	
* 47 Chlorobenzene-d5	117	8.467	8.467	(1.000)	197827	50.0000	
$ 48 Toluene-d8	98	7.207	7.203	(0.851)	267020	55.9940	55.99(M)
$ 69 4-Bromofluorobenzene	95	9.473	9.473	(1.119)	102717	53.8250	53.82
* 70 1,4-Dichlorobenzene-d4	152	10.457	10.457	(1.000)	98094	50.0000	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa7,i\P240615,b\X061531.D
Date : 16-JUN-2024 01:27
Client ID:
Sample Info: HS24060293-05
Purge Volume: 5.0
Column phase: DB624

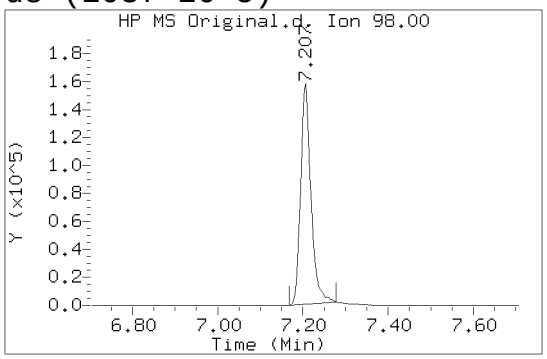
Instrument: voa7,i
Operator: AP
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061531.D
Inj Date : 16-JUN-2024 01:27
InstruID : voa7.i
LabSampID : HS24060293-05

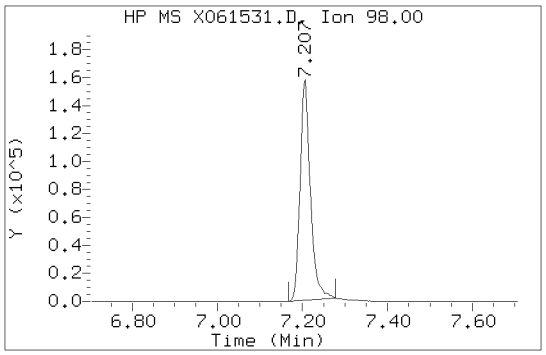
Toluene-d8 (2037-26-5)

Reason Code:

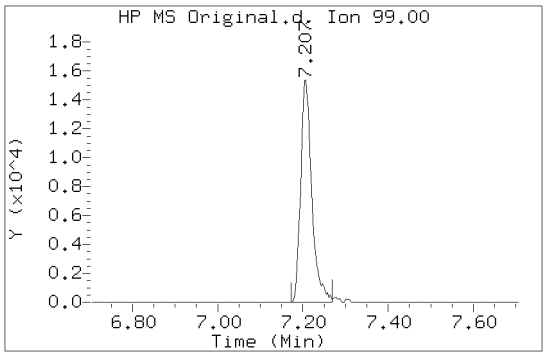
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12-Jul-2024
11:38
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zaid



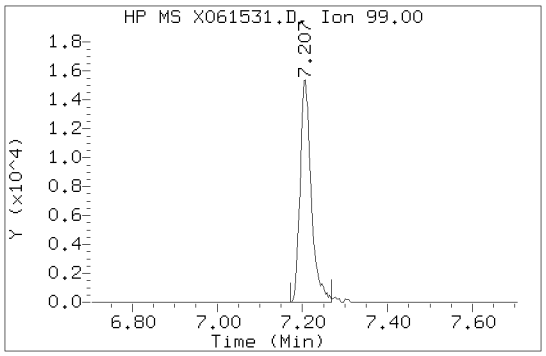
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HEIGHT
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12-Jul-2024
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zaid



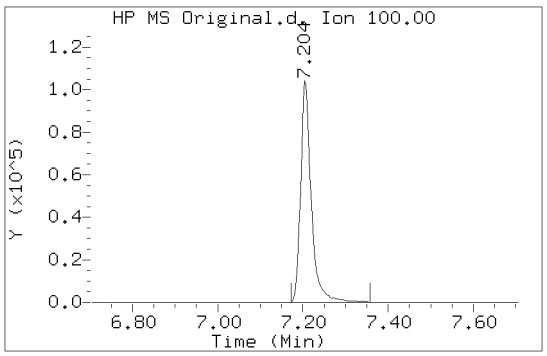
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HEIGHT
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12-Jul-2024
11:38
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zaid



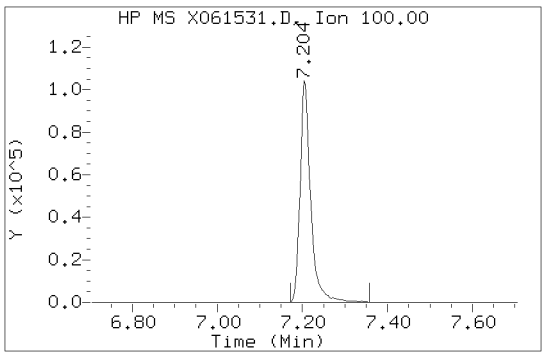
AFTER
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12-Jul-2024
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zaid



BEFORE
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AREA
182190
HEIGHT
104240
12-Jul-2024
11:38
s
zaid



AFTER
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AREA
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HEIGHT
104240
12-Jul-2024
11:38
s
zaid



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061532.D Page 1
Report Date: 12-Jul-2024 11:43

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061532.D
Lab Smp Id: HS24060293-06
Inj Date : 16-JUN-2024 01:50
Operator : AP   Inst ID: voa7.i
Smp Info : HS24060293-06
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240615.b\8260W.m
Meth Date : 12-Jul-2024 11:43 voa7.i   Quant Type: ISTD
Cal Date : 15-JUN-2024 16:41   Cal File: X061509.D
Als bottle: 30
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

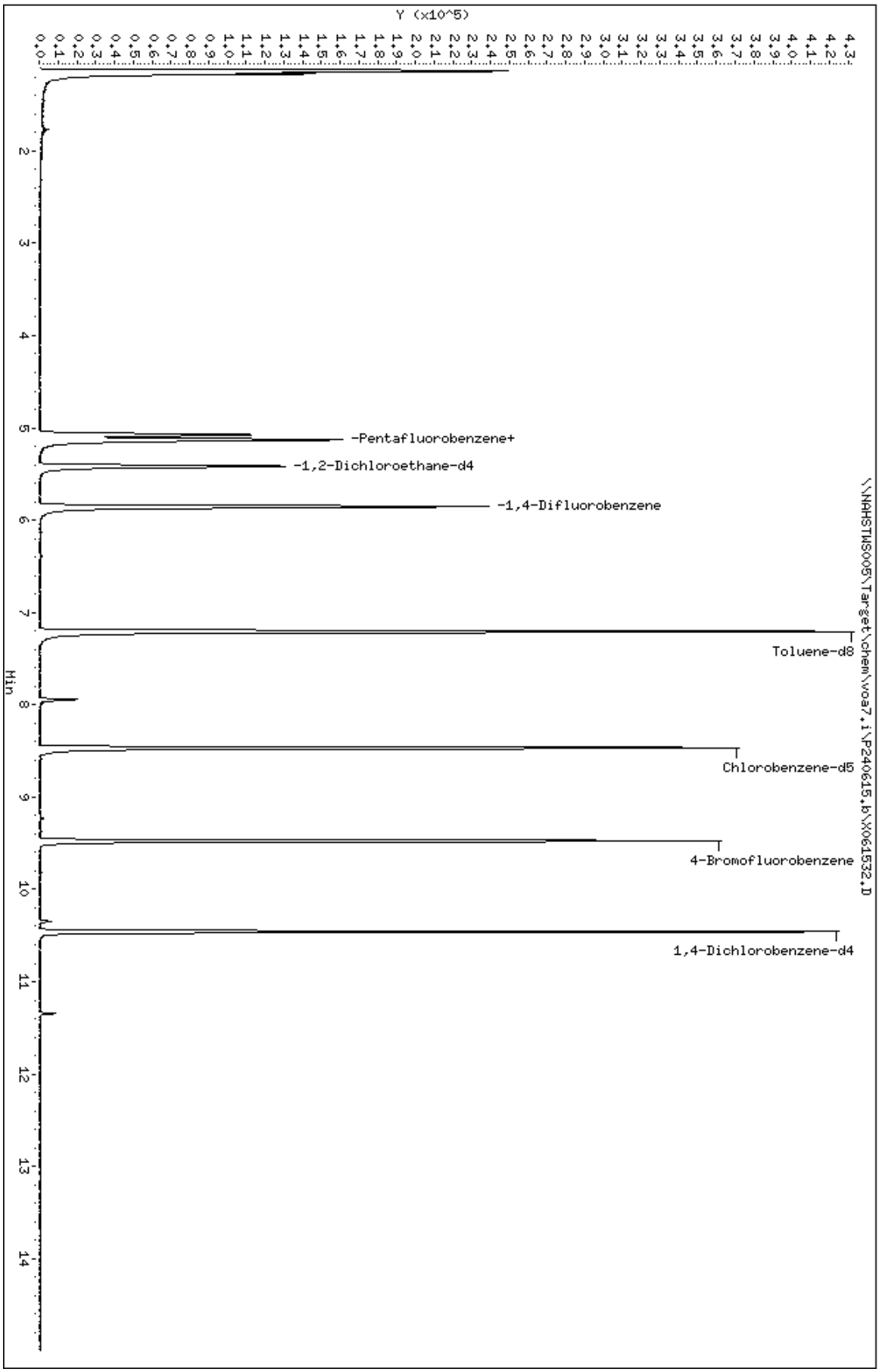
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	5.130	5.130	(1.000)	118107	50.0000	
$ 30 Dibromofluoromethane	113	5.075	5.072	(0.989)	77761	62.0522	62.05(R)
$ 35 1,2-Dichloroethane-d4	65	5.416	5.416	(1.056)	103758	62.0996	62.09(R)
* 36 1,4-Difluorobenzene	114	5.853	5.853	(1.000)	203474	50.0000	
* 47 Chlorobenzene-d5	117	8.467	8.467	(1.000)	196014	50.0000	
$ 48 Toluene-d8	98	7.203	7.207	(0.851)	286135	60.6627	60.66(R)
$ 69 4-Bromofluorobenzene	95	9.473	9.477	(1.119)	108684	57.6261	57.62
* 70 1,4-Dichlorobenzene-d4	152	10.457	10.457	(1.000)	98395	50.0000	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.


Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061532.D
Date : 16-JUN-2024 01:50
Client ID:
Sample Info: HS24060293-06
Purge Volume: 5.0
Column phase: DB624
Instrument: voa7.i
Operator: AP
Column diameter: 0.18
Page 1
Y (x10^5)
Min
-Pentafluorobenzene+
-1,2-Dichloroethane-d4
-1,4-Difluorobenzene
Toluene-d8
Chlorobenzene-d5
4-Bromofluorobenzene
1,4-Dichlorobenzene-d4
\\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061532.D

Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061532.D
Inj Date : 16-JUN-2024 01:50
InstruID : voa7.i
LabSampID : HS24060293-06

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061541.D Page 1
Report Date: 12-Jul-2024 11:51

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061541.D
Lab Smp Id: VSTD50 Client Smp ID: VSTD50
Inj Date : 16-JUN-2024 05:16
Operator : AP Inst ID: voa7.i
Smp Info : VSTD50;VSTD050;2;;CCV
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240615.b\8260W.m
Meth Date : 12-Jul-2024 11:51 voa7.i Quant Type: ISTD
Cal Date : 15-JUN-2024 16:41 Cal File: X061509.D
Als bottle: 39 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	5.133	5.133	(1.000)	124741	50.0000	
2	Dichlorodifluoromethane	85	1.294	1.294	(0.252)	58351	50.0000	44.07
159	Dichlorofluoromethane	67	2.072	2.072	(0.404)	122795	50.0000	47.27
3	Chloromethane	50	1.448	1.448	(0.282)	85419	50.0000	44.30
4	Propionitrile	54	4.670	4.670	(0.910)	73432	500.000	434.11
5	Vinyl Chloride	62	1.532	1.532	(0.298)	78265	50.0000	44.44
6	Bromomethane	94	1.808	1.808	(0.352)	43449	50.0000	45.63
7	Chloroethane	64	1.895	1.895	(0.369)	48180	50.0000	45.01
8	Trichlorofluoromethane	101	2.110	2.110	(0.411)	103061	50.0000	45.20
9	Acrolein	56	2.519	2.519	(0.491)	3606	100.000	102.60
10	Acetone	43	2.667	2.667	(0.520)	38802	100.000	88.73
11	1,1-Dichloroethene	96	2.589	2.589	(0.505)	57219	50.0000	44.59
12	Isobutyl Alcohol	43	5.573	5.573	(1.086)	180783	1000.00	869.36
13	Acetonitrile	39	2.959	2.959	(0.577)	96140	500.000	497.54
14	Allyl Chloride	41	2.959	2.959	(0.577)	191034	50.0000	47.59
15	Iodomethane	142	2.740	2.740	(0.534)	138457	100.000	85.47
16	Acrylonitrile	53	3.371	3.371	(0.657)	40127	100.000	91.44
17	Methylene Chloride	84	3.091	3.091	(0.602)	66112	50.0000	44.67
18	Methyl tert-butyl ether	73	3.377	3.377	(0.658)	158399	50.0000	44.72
19	Carbon Disulfide	76	2.795	2.795	(0.545)	340882	100.000	86.45

20	trans-1,2-Dichloroethene	96	3.377	3.377 (0.658)	58564	50.0000	43.88
21	Vinyl Acetate	43	4.657	4.657 (0.907)	55914	100.000	78.59

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061541.D Page 2
Report Date: 12-Jul-2024 11:51

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	22 1,1-Dichloroethane	63	3.863	3.863	(0.753)	123327	50.0000	42.05
	23 Chloroprene	53	3.966	3.966	(0.773)	100701	50.0000	43.22
	24 2-Butanone	43	4.586	4.586	(0.894)	48251	100.000	80.83
	25 Methacrylonitrile	41	2.146	2.146	(0.418)	94749	50.0000	45.57
	26 2,2-Dichloropropane	77	4.531	4.531	(0.883)	96704	50.0000	38.84
	27 cis-1,2-Dichloroethene	96	4.544	4.544	(0.885)	66378	50.0000	44.51
	28 Chloroform	83	4.901	4.901	(0.955)	120673	50.0000	45.36
	29 Bromochloromethane	128	4.802	4.802	(0.935)	32168	50.0000	44.32
$	30 Dibromofluoromethane	113	5.072	5.072	(0.988)	78400	50.0000	59.16
	31 1,1,1-Trichloroethane	97	5.072	5.072	(0.988)	102643	50.0000	43.84
	32 1,1-Dichloropropene	75	5.245	5.245	(0.896)	88074	50.0000	42.22
	33 1,2-Dichloroethane	62	5.493	5.493	(0.938)	100604	50.0000	43.58
	34 Carbon Tetrachloride	117	5.232	5.232	(0.894)	85840	50.0000	40.84
$	35 1,2-Dichloroethane-d4	65	5.412	5.412	(1.054)	101447	50.0000	57.35(M)
*	36 1,4-Difluorobenzene	114	5.853	5.853	(1.000)	212775	50.0000	
	37 Benzene	78	5.457	5.457	(0.932)	246387	50.0000	43.36
	38 Trichloroethene	130	6.088	6.088	(1.040)	64130	50.0000	43.74
	39 Bromodichloromethane	83	6.570	6.570	(1.122)	92038	50.0000	38.85
	40 Methyl Methacrylate	41	6.432	6.432	(1.253)	64997	50.0000	48.64
	41 2-Chloroethylvinyl ether	63	6.856	6.856	(1.171)	51472	100.000	89.29
	42 1,2-Dichloropropane	63	6.309	6.309	(1.078)	69460	50.0000	42.48
	43 2-Nitropropane	43	6.798	6.798	(1.324)	18779	50.0000	42.03
	44 Dibromomethane	93	6.419	6.419	(1.097)	39079	50.0000	41.90
	45 4-Methyl-2-Pentanone	43	7.126	7.126	(0.842)	119437	100.000	80.80
	46 cis-1,3-Dichloropropene	75	6.975	6.975	(1.192)	92829	50.0000	39.88
*	47 Chlorobenzene-d5	117	8.467	8.467	(1.000)	196704	50.0000	
$	48 Toluene-d8	98	7.203	7.203	(0.851)	279939	50.0000	59.10
	49 Ethyl Methacrylate	69	8.043	8.043	(1.374)	66036	50.0000	35.65
	50 Toluene	91	7.264	7.264	(0.858)	252934	50.0000	43.50
	51 trans-1,3-Dichloropropene	75	6.975	6.975	(1.192)	92829	50.0000	39.88
	52 2-Hexanone	43	7.859	7.859	(0.928)	79990	100.000	79.73
	53 1,1,2-Trichloroethane	83	7.637	7.637	(0.902)	47928	50.0000	43.79
	54 1,3-Dichloropropane	76	7.782	7.782	(0.919)	101179	50.0000	43.03
	55 Dibromochloromethane	129	7.975	7.975	(0.942)	63806	50.0000	39.60
	56 Tetrachloroethene	164	7.737	7.737	(0.914)	48534	50.0000	43.53
	57 1,2-Dibromoethane	107	8.071	8.071	(0.953)	49012	50.0000	42.15
	58 1-Chlorohexane	55	8.467	8.467	(1.447)	60506	50.0000	40.74
	59 Chlorobenzene	112	8.493	8.493	(1.003)	165702	50.0000	43.50
	60 1,1,1,2-Tetrachloroethane	131	8.563	8.563	(1.011)	57693	50.0000	42.35
	61 Ethylbenzene	106	8.583	8.583	(1.014)	84478	50.0000	42.91
	62 m,p-Xylenes	106	8.682	8.682	(1.025)	213380	100.000	86.59
	63 o-Xylene	106	9.023	9.023	(1.066)	104318	50.0000	43.83
	64 Styrene	104	9.039	9.039	(1.068)	185618	50.0000	44.15
	66 Bromoform	173	9.206	9.206	(1.087)	40357	50.0000	39.72
	67 Isopropylbenzene	105	9.338	9.338	(1.103)	269433	50.0000	43.71
	68 1,1,2,2-Tetrachloroethane	83	9.608	9.608	(0.919)	68538	50.0000	38.86
$	69 4-Bromofluorobenzene	95	9.473	9.473	(1.119)	102991	50.0000	54.29
*	70 1,4-Dichlorobenzene-d4	152	10.457	10.457	(1.000)	105082	50.0000	
	71 1,2,3-Trichloropropane	75	9.647	9.647	(0.923)	76782	50.0000	38.37
	72 trans-1,4-Dichloro-2-butene	53	9.657	9.657	(1.140)	15232	50.0000	35.58
	73 n-Propylbenzene	91	9.689	9.689	(0.927)	320540	50.0000	40.87
	74 Bromobenzene	156	9.602	9.602	(0.918)	71852	50.0000	42.08

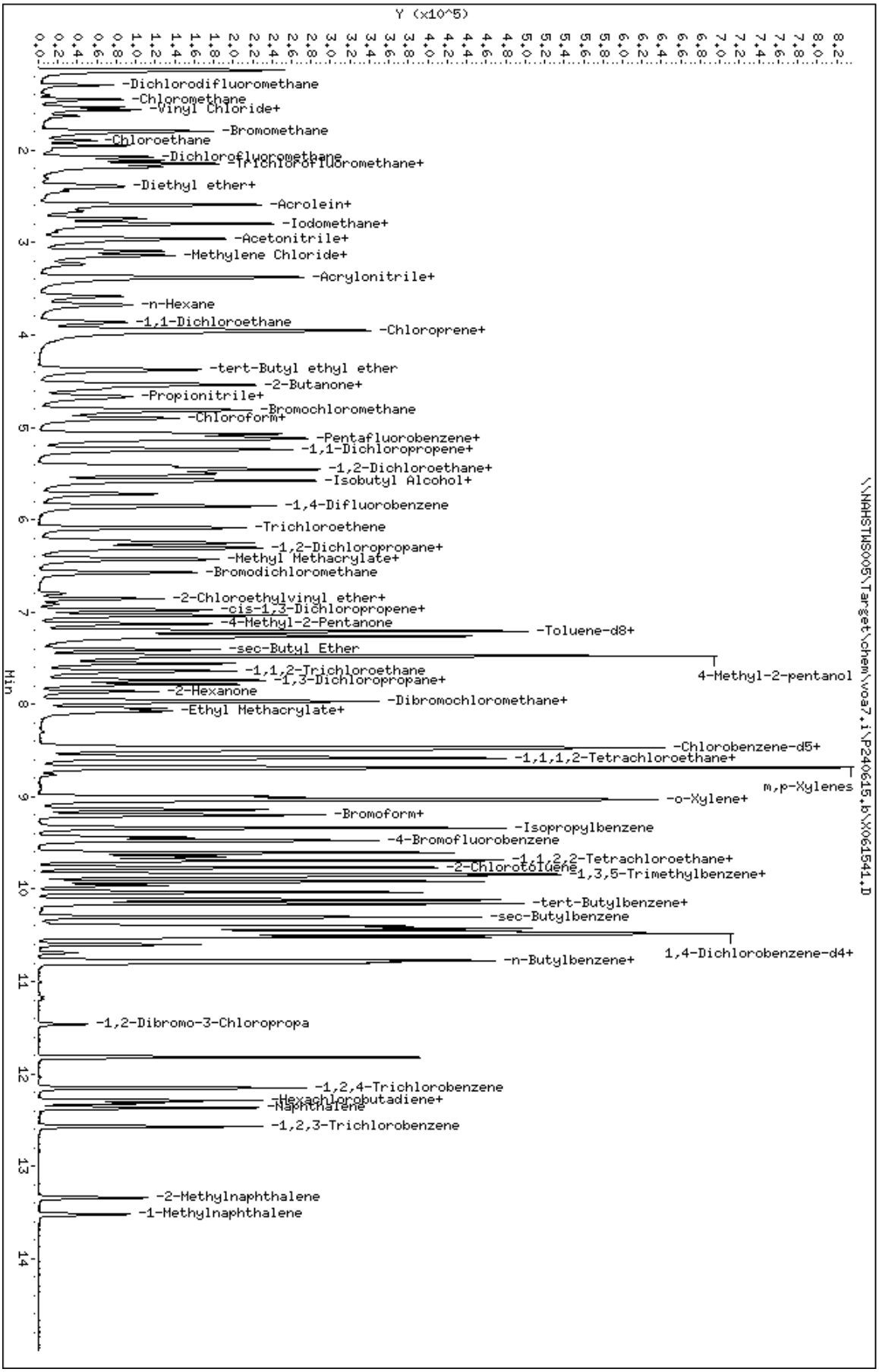
75	1,3,5-Trimethylbenzene	105	9.837	9.837 (0.941)	232688	50.0000	41.26
76	2-Chlorotoluene	91	9.766	9.766 (0.934)	199062	50.0000	41.72

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061541.D Page 3
Report Date: 12-Jul-2024 11:51

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
77	4-Chlorotoluene	91	9.859	9.859	(0.943)	237207	50.0000	42.04
78	tert-Butylbenzene	119	10.116	10.116	(0.967)	195348	50.0000	42.23
79	1,2,4-Trimethylbenzene	105	10.158	10.158	(0.971)	234061	50.0000	41.96
81	sec-Butylbenzene	105	10.303	10.303	(0.985)	268136	50.0000	41.89
82	p-Isopropyltoluene	119	10.425	10.425	(0.997)	239701	50.0000	41.57
83	1,3-Dichlorobenzene	146	10.403	10.403	(0.995)	130331	50.0000	41.45
84	1,4-Dichlorobenzene	146	10.477	10.477	(1.002)	134410	50.0000	41.88
87	n-Butylbenzene	91	10.772	10.772	(1.030)	218434	50.0000	40.44
88	1,2-Dichlorobenzene	146	10.798	10.798	(1.033)	126222	50.0000	41.78
89	1,2-Dibromo-3-Chloropropane	75	11.464	11.464	(1.096)	11054	50.0000	35.59
90	1,2,4-Trichlorobenzene	180	12.152	12.152	(1.162)	73106	50.0000	36.89
91	Hexachlorobutadiene	225	12.290	12.290	(1.175)	37161	50.0000	39.14
92	Naphthalene	128	12.370	12.370	(1.183)	152868	50.0000	33.91
93	1,2,3-Trichlorobenzene	182	12.570	12.570	(1.202)	57278	50.0000	34.90
135	1,4-Dioxane	88	6.448	6.448	(1.256)	8885	1000.00	878.80(A)
138	Freon TF	101	2.593	2.593	(0.505)	54400	50.0000	42.83
139	Diethyl ether	59	2.377	2.377	(0.463)	43564	50.0000	47.90
140	1,3-Butadiene	54	1.560	1.560	(0.304)	35349	50.0000	43.87
141	Cyclohexane	56	5.107	5.107	(0.995)	95007	50.0000	42.75
147	Methylcyclohexane	83	6.248	6.248	(1.068)	87564	50.0000	41.65
132	n-Butanol	56	6.252	6.252	(1.218)	36481	1000.00	918.45(T)
131	Methyl Acrylate	55	4.686	4.686	(0.913)	63079	50.0000	45.98
133	Ethyl Acrylate	55	6.223	6.223	(1.212)	71677	50.0000	20.42
136	n-Hexane	57	3.673	3.673	(0.716)	62099	50.0000	39.12
142	Tetrahydrofuran	42	4.859	4.859	(0.947)	21663	100.000	93.13
148	Tert-butyl alcohol	59	3.236	3.236	(0.630)	64442	1000.00	700.02
149	Isopropyl alcohol	45	2.808	2.808	(0.547)	54388	1000.00	858.78
151	4-Methyl-2-pentanol	45	7.473	7.473	(0.883)	404412	1000.00	782.68
166	1,2,3-Trimethylbenzene	105	10.518	10.518	(1.006)	227050	50.0000	41.95
167	Ethanol	45	2.310	2.310	(0.450)	8770	1000.00	844.18
172	tert-Butyl formate	59	3.236	3.236	(0.630)	64442	100.000	83.07
173	3,3-Dimethyl-1-butanol	57	8.043	8.043	(0.950)	93227	1000.00	733.43
174	tert-Amyl methyl ether	73	5.576	5.576	(1.086)	174595	50.0000	45.82
175	tert-Butyl ethyl ether	59	4.377	4.377	(0.853)	193331	50.0000	45.45
157	2-Methylnaphthalene	142	13.341	13.341	(1.276)	51076	50.0000	31.13
156	Diisopropyl ether	45	3.949	3.949	(0.769)	231704	50.0000	46.77
171	1-Methylnaphthalene	142	13.521	13.521	(1.293)	42904	50.0000	29.57
130	Ethyl Acetate	43	3.943	3.943	(0.768)	337417	50.0000	38.86
176	tert-Amyl alcohol	59	5.509	5.509	(1.073)	63276	1000.00	854.61(A)
160	Epichlorohydrin	57	6.914	6.914	(1.181)	15609	200.000	169.33
161	Butyl acrylate	55	8.997	8.997	(1.063)	150988	50.0000	45.22
183	Isopropyl Acetate	43	5.573	5.573	(0.952)	180783	50.0000	42.22(A)
184	n-Amyl acetate	43	9.194	9.194	(1.086)	123080	50.0000	38.24(A)
185	Acetaldehyde	44	1.631	1.631	(0.318)	41663	200.000	207.24(A)
186	n-Butyl acetate	43	7.965	7.965	(0.941)	101581	50.0000	43.45(A)
187	2-Etyhlhexyl Acrylate	55	12.319	12.319	(1.178)	37600	50.0000	30.39(A)
188	Tetrahydrothiophene	60	7.959	7.959	(0.940)	71145	50.0000	45.76(A)
189	sec-Butyl Ether	57	7.406	7.406	(0.875)	66296	50.0000	50.58(A)
190	Isoprene	39	2.400	2.400	(0.468)	20878	50.0000	54.43(A)
191	2-Chloropropene	41	2.146	2.146	(0.418)	94749	50.0000	44.15(A)

QC Flag Legend

T - Target compound detected outside RT window.
A - Target compound detected but, quantitated amount
    exceeded maximum amount.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa7,i\P240615,b\X061541,D
Date : 16-JUN-2024 05:16
Client ID: VSTD50
Sample Info: VSTD50;VSTD050;2;;CCV
Purge Volume: 5.0
Column phase: DB624

Instrument: voa7,i
Operator: AP
Column diameter: 0.18

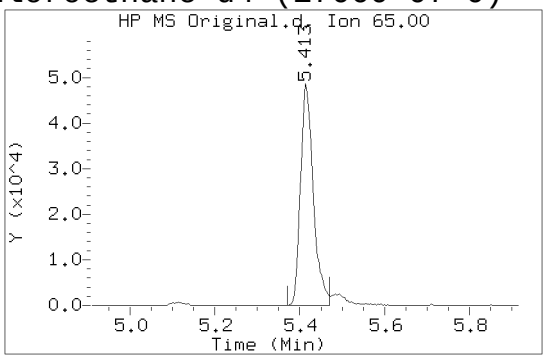
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Inj Date : 16-JUN-2024 05:16
InstruID : voa7.i
LabSampID : VSTD50

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

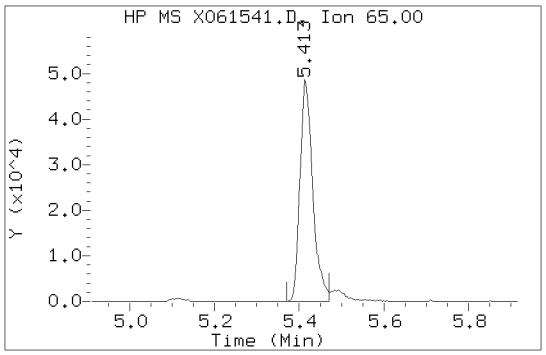
BEFORE

MASS
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AREA
101447
HEIGHT
48648
12-Jul-2024
11:38
s
zaid



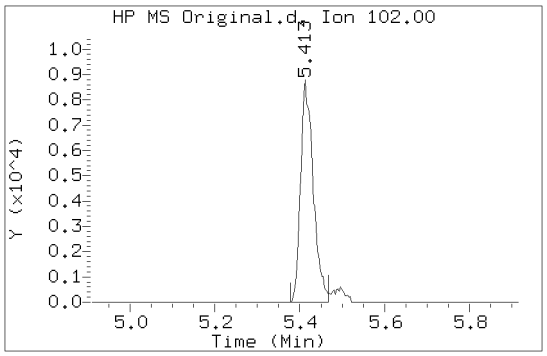
AFTER

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AREA
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12-Jul-2024
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zaid



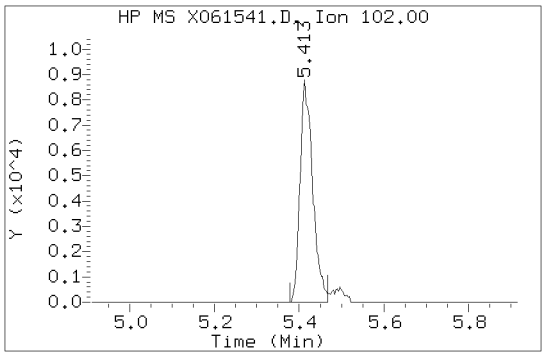
BEFORE

MASS
102
AREA
18072
HEIGHT
8789
12-Jul-2024
11:38
s
zaid



AFTER

MASS
102
AREA
18072
HEIGHT
8789
12-Jul-2024
11:51
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zaid



HS24060293 - ME - HG_W_DODICP_W_DOD

ALS WO# HS24060293

ALS Houston, US

Date: 12-Jul-24

Form 11 - INTERNAL STANDARD ASSOCIATION

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060293

Instrument:ICPMS05

Mass	Analyte	Assoc Int Standard 1	Assoc Int Standard 2	Mode
9	Beryllium	Lithium		Ar
11	Boron	Lithium		Ar
23	Sodium	Germanium		ArHe
24	Magnesium	Germanium		ArHe
27	Aluminum	Germanium		ArHe
39	Potassium	Germanium		ArHe
44	Calcium	Germanium		Ar
47	Titanium	Germanium		Ar
51	Vanadium	Germanium		ArHe
52	Chromium	Germanium		ArHe
55	Manganese	Germanium		ArHe
56	Iron	Germanium		ArHe
59	Cobalt	Germanium		ArHe
60	Nickel	Germanium		ArHe
63	Copper	Germanium		ArHe
66	Zinc	Germanium		ArHe
75	Arsenic	Germanium		ArHe
82	Selenium	Germanium		Ar
88	Strontium	Indium		Ar
95	Molybdenum	Indium		Ar
105	Palladium	Germanium		Ar
107	Silver	Indium		Ar
114	Cadmium	Indium		Ar
118	Tin	Indium		Ar
121	Antimony	Germanium		ArHe
137	Barium	Indium		Ar
205	Thallium	Bismuth		Ar
208	Lead	Bismuth		Ar

ALS Houston, US Date: 12-Jul-24

FORM 13 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060293
Start Date: 18-Jun-2024 End Date: 18-Jun-2024

Run ID:HG04_469750
Instrument:HG04
Method:SW7470A

Sample No.	D/F	Time	FileID	Analytes
ICV	1	18-Jun-2024 11:01	HG04_469750 Raw Data_8083325	HG
ICB	1	18-Jun-2024 11:02	_8083326	HG
CRA	1	18-Jun-2024 11:04	_8083327	HG
CCV 1	1	18-Jun-2024 11:08	_8083328	HG
CCB 1	1	18-Jun-2024 11:10	_8083329	HG
CCV 2	1	18-Jun-2024 11:33	_8083340	HG
CCB 2	1	18-Jun-2024 11:35	_8083341	HG
CCV 3	1	18-Jun-2024 11:56	_8083352	HG
CCB 3	1	18-Jun-2024 11:57	_8083353	HG
CCV 4	1	18-Jun-2024 12:22	_8083367	HG
CCB 4	1	18-Jun-2024 12:24	_8083368	HG
CCV 5	1	18-Jun-2024 12:46	_8083379	HG
CCB 5	1	18-Jun-2024 12:47	_8083380	HG
CCV 6	1	18-Jun-2024 13:13	_8083388	HG
CCB 6	1	18-Jun-2024 13:15	_8083389	HG
CCV 7	1	18-Jun-2024 13:34	_8083400	HG
CCB 7	1	18-Jun-2024 13:36	_8083401	HG
CCV 8	1	18-Jun-2024 13:57	_8083415	HG
CCB 8	1	18-Jun-2024 13:59	_8083416	HG
MBLK-213707	1	18-Jun-2024 14:14	_8083423	HG
LCS-213707	1	18-Jun-2024 14:16	_8083424	HG
18CPTMW03SW_060524	1	18-Jun-2024 14:18	_8083425	HG
18CPTMW022DW_060524	1	18-Jun-2024 14:19	_8083426	HG
CCV 9	1	18-Jun-2024 14:21	_8083427	HG
CCB 9	1	18-Jun-2024 14:23	_8083428	HG
18CPTMW022R_060524	1	18-Jun-2024 14:25	_8083429	HG
ZZZZZZMS	1	18-Jun-2024 14:35	_8083435	HG
ZZZZZZMSD	1	18-Jun-2024 14:37	_8083436	HG
CCV 10	1	18-Jun-2024 14:52	_8083437	HG
CCB 10	1	18-Jun-2024 14:53	_8083438	HG
CCV 11	1	18-Jun-2024 15:16	_8083556	HG
CCB 11	1	18-Jun-2024 15:18	_8083557	HG
CCV 12	1	18-Jun-2024 15:40	_8083601	HG
CCB 12	1	18-Jun-2024 15:42	_8083602	HG
CCV 13	1	18-Jun-2024 15:47	_8083605	HG
CCB 13	1	18-Jun-2024 15:49	_8083606	HG

ALS Houston, US Date: 12-Jul-24

FORM 13 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060293
Start Date: 19-Jun-2024 End Date: 19-Jun-2024

Run ID:ICPMS05_469846
Instrument:ICPMS05
Method:

Sample No.	D/F	Time	FileID	Analytes
ICPMS05_469846_Tune	1	19-Jun-2024 00:00	ICPMS05_469846_Tune_1	
CAL BLK	1	19-Jun-2024 11:45	010CALB.d_8085512	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
2/10/200	1	19-Jun-2024 11:47	011CALS.d_8085513	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
5/25/500	1	19-Jun-2024 11:49	012CALS.d_8085514	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
10/50/1000	1	19-Jun-2024 11:51	013CALS.d_8085515	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
100/500/10K	1	19-Jun-2024 11:53	014CALS.d_8085516	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
200/1000/20K	1	19-Jun-2024 11:55	015CALS.d_8085517	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICV	1	19-Jun-2024 12:01	017_ICV.d_8085519	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LLICV2	1	19-Jun-2024 12:05	019LCV2.d_8085521	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LLICV5	1	19-Jun-2024 12:07	020LCV5.d_8085522	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICB	1	19-Jun-2024 12:11	022_ICB.d_8085524	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICSA	1	19-Jun-2024 12:14	023ICSA.d_8085525	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICSAB	1	19-Jun-2024 12:16	024ICSB.d_8085526	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCV 1	1	19-Jun-2024 12:25	027_CCV.d_8085602	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
MBLK-213517	1	19-Jun-2024 12:37	033SMPL.d_8085603	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LCS-213517	1	19-Jun-2024 12:42	035SMPL.d_8085604	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCV 2	1	19-Jun-2024 12:50	039_CCV.d_8085605	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCB 1	1	19-Jun-2024 12:52	040_CCB.d_8085606	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCV 3	1	19-Jun-2024 13:24	052_CCV.d_8085729	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCB 2	1	19-Jun-2024 13:26	053_CCB.d_8085730	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ZZZZZZSD	5	19-Jun-2024 13:30	055SMPL.d_8085855	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ZZZZZZMS	1	19-Jun-2024 13:32	056SMPL.d_8085856	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ZZZZZZMSD	1	19-Jun-2024 13:34	057SMPL.d_8085857	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ZZZZZZPDS	1	19-Jun-2024 13:36	058SMPL.d_8085858	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
18CPTMW03SW_060524	1	19-Jun-2024 13:38	059SMPL.d_8085859	AG AL AS BA BE CA CD CO CR CU FE MG MN NI PB SB SE TL V ZN
18CPTMW022DW_060524	1	19-Jun-2024 13:40	060SMPL.d_8085860	AG AL AS BA BE CA CD CO CR CU FE K MG MN NI PB SB SE TL V ZN
18CPTMW022R_060524	1	19-Jun-2024 13:42	061SMPL.d_8085861	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCV 4	1	19-Jun-2024 13:49	064_CCV.d_8085864	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCB 3	1	19-Jun-2024 13:51	065_CCB.d_8085865	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
18CPTMW03SW_060524	100	19-Jun-2024 14:10	074SMPL.d_8085961	K NA
CCV 5	1	19-Jun-2024 14:14	076_CCV.d_8086036	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCB 4	1	19-Jun-2024 14:16	077_CCB.d_8086037	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN

ALS Houston, US Date: 12-Jul-24

FORM 13 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060293
Start Date: 19-Jun-2024 End Date: 19-Jun-2024

Run ID:ICPMS05_469846
Instrument:ICPMS05
Method:

Sample No.	D/F	Time	FileID	Analytes
18CPTMW022DW_060524	100	19-Jun-2024 14:18	078SMPL.d_8086038	NA
CCV 6	1	19-Jun-2024 14:33	085_CCV.d_8086082	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCB 5	1	19-Jun-2024 14:35	086_CCB.d_8086083	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc. Run ID: HG04_469750
Project: LHAAP Site 18/24 Instrument: HG04
WorkOrder: HS24060293 Method: SW7470A

ICV	Date: 18-Jun-2024 11:01		Seq: 8083325	ICV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	5.38	108	90-110	

CCV1	Date: 18-Jun-2024 11:08		Seq: 8083328	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.97	99	90-110	

CCV2	Date: 18-Jun-2024 11:33		Seq: 8083340	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.93	99	90-110	

CCV3	Date: 18-Jun-2024 11:56		Seq: 8083352	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.89	98	90-110	

CCV4	Date: 18-Jun-2024 12:22		Seq: 8083367	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.77	95	90-110	

CCV5	Date: 18-Jun-2024 12:46		Seq: 8083379	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.89	98	90-110	

CCV6	Date: 18-Jun-2024 13:13		Seq: 8083388	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.74	95	90-110	

CCV7	Date: 18-Jun-2024 13:34		Seq: 8083400	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.86	97	90-110	

CCV8	Date: 18-Jun-2024 13:57		Seq: 8083415	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.87	97	90-110	

CCV9	Date: 18-Jun-2024 14:21		Seq: 8083427	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.83	97	90-110	

CCV10	Date: 18-Jun-2024 14:52		Seq: 8083437	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.79	96	90-110	

CCV11	Date: 18-Jun-2024 15:16		Seq: 8083556	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.59	92	90-110	

CCV12	Date: 18-Jun-2024 15:40		Seq: 8083601	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.93	99	90-110	

CCV13	Date: 18-Jun-2024 15:47		Seq: 8083605	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.92	98	90-110	

ALS Houston, US Date: 12-Jul-24

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060293

Run ID: ICPMS05_469846
Instrument: ICPMS05
Method: SW6020A

ICV	Date: 19-Jun-2024 12:01		Seq: 8085519	ICV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Aluminum	100	108.618	109	90-110	
Antimony	100	107.761	108	90-110	
Arsenic	100	104.781	105	90-110	
Barium	100	104.659	105	90-110	
Beryllium	100	102.907	103	90-110	
Cadmium	100	106.194	106	90-110	
Calcium	10000	10203.317	102	90-110	
Chromium	100	105.43	105	90-110	
Cobalt	100	106.348	106	90-110	
Copper	100	107.235	107	90-110	
Iron	10000	10436.968	104	90-110	
Lead	100	105.674	106	90-110	
Magnesium	10000	10393.359	104	90-110	
Manganese	100	105.804	106	90-110	
Nickel	100	105.437	105	90-110	
Potassium	10000	10210.301	102	90-110	
Selenium	100	107.523	108	90-110	
Silver	100	102.616	103	90-110	
Sodium	10000	10354.955	104	90-110	
Thallium	100	109.194	109	90-110	
Vanadium	100	106.173	106	90-110	
Zinc	100	104.77	105	90-110	

CCV1	Date: 19-Jun-2024 12:25		Seq: 8085602	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Aluminum	100	101.009	101	90-110	
Antimony	100	96.594	97	90-110	
Arsenic	100	97.568	98	90-110	
Barium	100	96.892	97	90-110	
Beryllium	100	94.596	95	90-110	
Cadmium	100	97.295	97	90-110	
Calcium	10000	9959.617	100	90-110	
Chromium	100	98.236	98	90-110	
Cobalt	100	99.347	99	90-110	
Copper	100	99.328	99	90-110	
Iron	10000	10025.145	100	90-110	
Lead	100	98.458	99	90-110	
Magnesium	10000	9932.215	99	90-110	
Manganese	100	99.912	100	90-110	
Nickel	100	99.76	100	90-110	
Potassium	10000	9973.576	100	90-110	
Selenium	100	98.87	99	90-110	
Silver	100	98.394	98	90-110	
Sodium	10000	9903.856	99	90-110	
Thallium	100	98.333	98	90-110	
Vanadium	100	97.212	97	90-110	
Zinc	100	97.917	98	90-110	

CCV2	Date: 19-Jun-2024 12:50		Seq: 8085605	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Aluminum	100	96.111	96	90-110	
Antimony	100	98.168	98	90-110	
Arsenic	100	97.837	98	90-110	
Barium	100	99.621	100	90-110	
Beryllium	100	92.92	93	90-110	

ALS Houston, US Date: 12-Jul-24

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc. Run ID: ICPMS05_469846
Project: LHAAP Site 18/24 Instrument: ICPMS05
WorkOrder: HS24060293 Method: SW6020A

CCV2	Date: 19-Jun-2024 12:50		Seq: 8085605	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Cadmium	100	98.464	99	90-110	
Calcium	10000	9765.04	98	90-110	
Chromium	100	98.608	99	90-110	
Cobalt	100	100.137	100	90-110	
Copper	100	100.104	100	90-110	
Iron	10000	10023.863	100	90-110	
Lead	100	99.615	100	90-110	
Magnesium	10000	9877.545	99	90-110	
Manganese	100	99.505	100	90-110	
Nickel	100	99.411	99	90-110	
Potassium	10000	9868.404	99	90-110	
Selenium	100	96.736	97	90-110	
Silver	100	98.163	98	90-110	
Sodium	10000	9858.5	99	90-110	
Thallium	100	98.817	99	90-110	
Vanadium	100	98.208	98	90-110	
Zinc	100	97.984	98	90-110	

CCV3	Date: 19-Jun-2024 13:24		Seq: 8085729	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Aluminum	100	91.323	91	90-110	
Antimony	100	101.516	102	90-110	
Arsenic	100	98.575	99	90-110	
Barium	100	98.127	98	90-110	
Beryllium	100	92.358	92	90-110	
Cadmium	100	96.222	96	90-110	
Calcium	10000	9592.574	96	90-110	
Chromium	100	98.033	98	90-110	
Cobalt	100	99.129	99	90-110	
Copper	100	100.954	101	90-110	
Iron	10000	10908.621	109	90-110	
Lead	100	97.64	98	90-110	
Magnesium	10000	10148.595	101	90-110	
Manganese	100	98.546	99	90-110	
Nickel	100	98.885	99	90-110	
Potassium	10000	10430.219	104	90-110	
Selenium	100	97.652	98	90-110	
Silver	100	96.517	97	90-110	
Sodium	10000	10141.958	101	90-110	
Thallium	100	98.207	98	90-110	
Vanadium	100	97.012	97	90-110	
Zinc	100	97.941	98	90-110	

CCV4	Date: 19-Jun-2024 13:49		Seq: 8085864	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Aluminum	100	94.252	94	90-110	
Antimony	100	99.47	100	90-110	
Arsenic	100	97.473	98	90-110	
Barium	100	97.654	98	90-110	
Beryllium	100	92.814	93	90-110	
Cadmium	100	96.939	97	90-110	
Calcium	10000	9663.921	97	90-110	
Chromium	100	98.541	99	90-110	
Cobalt	100	99.885	100	90-110	
Copper	100	100.073	100	90-110	

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc. Run ID: ICPMS05_469846
Project: LHAAP Site 18/24 Instrument: ICPMS05
WorkOrder: HS24060293 Method: SW6020A

CCV4	Date: 19-Jun-2024 13:49		Seq: 8085864	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Iron	10000	10933.799	109	90-110	
Lead	100	97.741	98	90-110	
Magnesium	10000	10486.487	105	90-110	
Manganese	100	98.835	99	90-110	
Nickel	100	100.219	100	90-110	
Potassium	10000	10615.897	106	90-110	
Selenium	100	99.519	100	90-110	
Silver	100	97.483	98	90-110	
Sodium	10000	10553.109	106	90-110	
Thallium	100	97.739	98	90-110	
Vanadium	100	97.259	97	90-110	
Zinc	100	99.463	100	90-110	

CCV5	Date: 19-Jun-2024 14:14		Seq: 8086036	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Aluminum	100	94.073	94	90-110	
Antimony	100	99.476	100	90-110	
Arsenic	100	95.357	95	90-110	
Barium	100	98.177	98	90-110	
Beryllium	100	90.966	91	90-110	
Cadmium	100	96.232	96	90-110	
Calcium	10000	9564.754	96	90-110	
Chromium	100	96.643	97	90-110	
Cobalt	100	98.287	98	90-110	
Copper	100	100.029	100	90-110	
Iron	10000	10772.734	108	90-110	
Lead	100	97.099	97	90-110	
Magnesium	10000	10347.095	103	90-110	
Manganese	100	98.194	98	90-110	
Nickel	100	98.552	99	90-110	
Potassium	10000	10300.681	103	90-110	
Selenium	100	98.398	98	90-110	
Silver	100	95.671	96	90-110	
Sodium	10000	10313.005	103	90-110	
Thallium	100	97.281	97	90-110	
Vanadium	100	94.953	95	90-110	
Zinc	100	96.999	97	90-110	

CCV6	Date: 19-Jun-2024 14:33		Seq: 8086082	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Aluminum	100	91.872	92	90-110	
Antimony	100	97.55	98	90-110	
Arsenic	100	96.809	97	90-110	
Barium	100	97.612	98	90-110	
Beryllium	100	91.06	91	90-110	
Cadmium	100	96.946	97	90-110	
Calcium	10000	9468.352	95	90-110	
Chromium	100	96.326	96	90-110	
Cobalt	100	97.101	97	90-110	
Copper	100	98.301	98	90-110	
Iron	10000	10704.141	107	90-110	
Lead	100	96.322	96	90-110	
Magnesium	10000	10287.392	103	90-110	
Manganese	100	97.071	97	90-110	
Nickel	100	98.158	98	90-110	

ALS Houston, US Date: 12-Jul-24

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060293

Run ID: ICPMS05_469846
Instrument: ICPMS05
Method: SW6020A

CCV6 | Date: 19-Jun-2024 14:33 | Seq: 8086082 | CCV | Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Potassium	10000	10401.33	104	90-110	
Selenium	100	95.989	96	90-110	
Silver	100	96.203	96	90-110	
Sodium	10000	10191.133	102	90-110	
Thallium	100	97.061	97	90-110	
Vanadium	100	95.144	95	90-110	
Zinc	100	97.097	97	90-110	

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060293

Run ID: HG04_469750
Instrument: HG04
Method: SW7470A

ICB	Date: 18-Jun-2024 11:02		Seq: 8083326	ICB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB1	Date: 18-Jun-2024 11:10		Seq: 8083329	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB2	Date: 18-Jun-2024 11:35		Seq: 8083341	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB3	Date: 18-Jun-2024 11:57		Seq: 8083353	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB4	Date: 18-Jun-2024 12:24		Seq: 8083368	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB5	Date: 18-Jun-2024 12:47		Seq: 8083380	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB6	Date: 18-Jun-2024 13:15		Seq: 8083389	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB7	Date: 18-Jun-2024 13:36		Seq: 8083401	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB8	Date: 18-Jun-2024 13:59		Seq: 8083416	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

MBLK-213707	Date: 18-Jun-2024 14:14		Seq: 8083423	MBLK	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB9	Date: 18-Jun-2024 14:23		Seq: 8083428	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB10	Date: 18-Jun-2024 14:53		Seq: 8083438	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB11	Date: 18-Jun-2024 15:18		Seq: 8083557	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB12	Date: 18-Jun-2024 15:42		Seq: 8083602	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB13	Date: 18-Jun-2024 15:49		Seq: 8083606	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

ALS Houston, US Date: 12-Jul-24

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060293

Run ID: ICPMS05_469846
Instrument: ICPMS05
Method: SW6020A

ICB	Date: 19-Jun-2024 12:11		Seq: 8085524	ICB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Antimony	5	0.4	5	U	
Arsenic	5	0.4	5	U	
Barium	5	1.9	5	U	
Beryllium	2	0.2	2	U	
Cadmium	2	0.2	2	U	
Calcium	500	34	500	U	
Chromium	-0.644	0.4	5	J	
Cobalt	5	0.1	5	U	
Copper	5	1	5	U	
Iron	200	12	200	U	
Lead	5	0.6	5	U	
Magnesium	200	10	200	U	
Manganese	5	0.7	5	U	
Nickel	5	0.6	5	U	
Potassium	200	18	200	U	
Selenium	5	1.1	5	U	
Silver	5	0.2	5	U	
Sodium	200	14	200	U	
Thallium	2	0.2	2	U	
Vanadium	5	0.6	5	U	
Zinc	5	2	5	U	

MBLK-213517	Date: 19-Jun-2024 12:37		Seq: 8085603	MBLK	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Antimony	5	0.4	5	U	
Arsenic	5	0.4	5	U	
Barium	5	1.9	5	U	
Beryllium	2	0.2	2	U	
Cadmium	2	0.2	2	U	
Calcium	500	34	500	U	
Chromium	5	0.4	5	U	
Cobalt	5	0.1	5	U	
Copper	5	1	5	U	
Iron	200	12	200	U	
Lead	5	0.6	5	U	
Magnesium	200	10	200	U	
Manganese	5	0.7	5	U	
Nickel	5	0.6	5	U	
Potassium	200	18	200	U	
Selenium	5	1.1	5	U	
Silver	5	0.2	5	U	
Sodium	200	14	200	U	
Thallium	2	0.2	2	U	
Vanadium	5	0.6	5	U	
Zinc	5	2	5	U	

CCB1	Date: 19-Jun-2024 12:52		Seq: 8085606	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	-2.796	1.8	10	J	
Antimony	0.554	0.4	2	J	
Arsenic	2	0.4	2	U	
Barium	4	1.9	4	U	
Beryllium	2	0.2	2	U	

ALS Houston, US Date: 12-Jul-24

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060293

Run ID: ICPMS05_469846
Instrument: ICPMS05
Method: SW6020A

CCB1	Date: 19-Jun-2024 12:52		Seq: 8085606	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Cadmium	2	0.2	2	U	
Calcium	500	34	500	U	
Chromium	-0.84	0.4	4	J	
Cobalt	5	0.2	5	U	
Copper	2	1	2	U	
Iron	200	12	200	U	
Lead	2	0.6	2	U	
Magnesium	200	10	200	U	
Manganese	5	0.7	5	U	
Nickel	2	0.6	2	U	
Potassium	200	18	200	U	
Selenium	2	1.1	2	U	
Silver	2	0.2	2	U	
Sodium	75.96	14	200	J	
Thallium	0.649	0.2	2	J	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB2	Date: 19-Jun-2024 13:26		Seq: 8085730	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	-2.335	1.8	10	J	
Antimony	1.488	0.4	2	J	
Arsenic	2	0.4	2	U	
Barium	4	1.9	4	U	
Beryllium	2	0.2	2	U	
Cadmium	2	0.2	2	U	
Calcium	500	34	500	U	
Chromium	-0.902	0.4	4	J	
Cobalt	5	0.2	5	U	
Copper	2	1	2	U	
Iron	200	12	200	U	
Lead	2	0.6	2	U	
Magnesium	200	10	200	U	
Manganese	5	0.7	5	U	
Nickel	2	0.6	2	U	
Potassium	200	18	200	U	
Selenium	2	1.1	2	U	
Silver	2	0.2	2	U	
Sodium	200	14	200	U	
Thallium	0.382	0.2	2	J	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB3	Date: 19-Jun-2024 13:51		Seq: 8085865	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	-2.623	1.8	10	J	
Antimony	0.605	0.4	2	J	
Arsenic	2	0.4	2	U	
Barium	4	1.9	4	U	
Beryllium	2	0.2	2	U	
Cadmium	2	0.2	2	U	
Calcium	500	34	500	U	
Chromium	-0.795	0.4	4	J	
Cobalt	5	0.2	5	U	
Copper	2	1	2	U	

ALS Houston, US Date: 12-Jul-24

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060293

Run ID: ICPMS05_469846
Instrument: ICPMS05
Method: SW6020A

CCB3	Date: 19-Jun-2024 13:51		Seq: 8085865	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Iron	200	12	200	U	
Lead	2	0.6	2	U	
Magnesium	200	10	200	U	
Manganese	5	0.7	5	U	
Nickel	2	0.6	2	U	
Potassium	24.88	18	200	J	
Selenium	2	1.1	2	U	
Silver	2	0.2	2	U	
Sodium	80.13	14	200	J	
Thallium	0.268	0.2	2	J	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB4	Date: 19-Jun-2024 14:16		Seq: 8086037	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	-2.885	1.8	10	J	
Antimony	0.411	0.4	2	J	
Arsenic	2	0.4	2	U	
Barium	4	1.9	4	U	
Beryllium	2	0.2	2	U	
Cadmium	2	0.2	2	U	
Calcium	500	34	500	U	
Chromium	-0.87	0.4	4	J	
Cobalt	5	0.2	5	U	
Copper	2	1	2	U	
Iron	200	12	200	U	
Lead	2	0.6	2	U	
Magnesium	200	10	200	U	
Manganese	5	0.7	5	U	
Nickel	2	0.6	2	U	
Potassium	19.68	18	200	J	
Selenium	2	1.1	2	U	
Silver	2	0.2	2	U	
Sodium	48.9	14	200	J	
Thallium	0.272	0.2	2	J	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB5	Date: 19-Jun-2024 14:35		Seq: 8086083	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	-2.66	1.8	10	J	
Antimony	0.424	0.4	2	J	
Arsenic	2	0.4	2	U	
Barium	4	1.9	4	U	
Beryllium	2	0.2	2	U	
Cadmium	2	0.2	2	U	
Calcium	500	34	500	U	
Chromium	-0.788	0.4	4	J	
Cobalt	5	0.2	5	U	
Copper	2	1	2	U	
Iron	200	12	200	U	
Lead	2	0.6	2	U	
Magnesium	200	10	200	U	
Manganese	5	0.7	5	U	
Nickel	2	0.6	2	U	

ALS Houston, US

Date: 12-Jul-24

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060293

Run ID: ICPMS05_469846
Instrument: ICPMS05
Method: SW6020A

CCB5 | Date: 19-Jun-2024 14:35 | Seq: 8086083 | CCB | Units: ug/L

Analyte	Result	MDL	Report Limit	Qual
Potassium	200	18	200	U
Selenium	2	1.1	2	U
Silver	2	0.2	2	U
Sodium	26.54	14	200	J
Thallium	0.272	0.2	2	J
Vanadium	-0.608	0.6	5	J
Zinc	4	2	4	U

ALS Houston, US Date: 12-Jul-24

Form 4 - ICP Interference Check Sample

Client: Bhate Environmental Associates, Inc. Run ID:ICPMS05_469846
Project: LHAAP Site 18/24 Instrument:ICPMS05
WorkOrder: HS24060293 Method:SW6020A

ICSA	Date: 19-Jun-2024 12:14	Seq: 8085525	ICSA	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100000	98720	98.7	
Antimony		0.045	0	
Arsenic		0.39	0	
Barium		0.307	0	
Beryllium		0.023	0	
Cadmium		0.707	0	
Calcium	100000	96290	96.3	
Chromium		0.744	0	
Cobalt		1.048	0	
Copper		0.715	0	
Iron	100000	97600	97.6	
Lead		0.895	0	
Magnesium	100000	96860	96.9	
Manganese		1.224	0	
Nickel		1.144	0	
Potassium	100000	98780	98.8	
Selenium		0.447	0	
Silver		0.04	0	
Sodium	100000	99330	99.3	
Thallium		0.012	0	
Vanadium		0.553	0	
Zinc		2.411	0	

ICSAB	Date: 19-Jun-2024 12:16	Seq: 8085526	ICSAB	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100500	104200	104	
Antimony	100	100.4	100	
Arsenic	100	104.9	105	
Barium	100	106.7	107	
Beryllium	100	93.49	93.5	
Cadmium	100	104	104	
Calcium	110000	118300	108	
Chromium	100	100.1	100	
Cobalt	100	98.09	98.1	
Copper	100	96.03	96.0	
Iron	110000	112800	103	
Lead	100	105.4	105	
Magnesium	110000	112700	102	
Manganese	100	102.5	102	
Nickel	100	95.7	95.7	
Potassium	110000	114500	104	
Selenium	100	107.1	107	
Silver	100	109.6	110	
Sodium	110000	115500	105	
Thallium	100	103.5	104	
Vanadium	100	101.9	102	
Zinc	100	102.9	103	

ALS Houston, US Date: 12-Jul-24

Form 5A - Matrix Spike/Matrix Spike Duplicate Recovery

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060293

Date Analyzed: 18-Jun-2024 14:37
Date Extracted: 18-Jun-2024 09:00
Units: ug/L

Matrix Spike: HS24060434-09MS
Client Sample ID:

Analysis Method: SW7470A

Analyte	Sample Result	MS Result	Spike Amount	% Rec	MSD Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Mercury	0.2000	4.410	5.000	88.4	4.380	5.000	87.8	82-119	0.683	20

ALS Houston, US

Date: 12-Jul-24

Form 5A - Matrix Spike/Matrix Spike Duplicate Recovery

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060293

Date Analyzed: 19-Jun-2024 13:34
Date Extracted: 13-Jun-2024 16:00
Units: ug/L

Matrix Spike: HS24060434-09MS
Client Sample ID:

Analysis Method: SW6020A

Analyte	Sample Result	MS Result	Spike Amount	% Rec	MSD Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Aluminum	19.64	105.8	100.0	86.2	106.7	100.0	87.0	84-117	0.773	20
Antimony	1.111	44.46	50.00	86.7	45.33	50.00	88.4	85-117	1.94	20
Arsenic	0.4390	44.20	50.00	87.5	44.42	50.00	88.0	84-116	0.497	20
Barium	315.5	349.7	50.00	68.3	358.1	50.00	85.2	86-114	2.38	20
Beryllium	2.000	42.65	50.00	85.1	44.15	50.00	88.1	83-121	3.45	20
Cadmium	0.2690	44.59	50.00	88.6	45.30	50.00	90.1	87-115	1.57	20
Calcium	17690	21370	5000	73.7	22030	5000	86.9	87-118	3.05	20
Chromium	116.2	155.6	50.00	78.9	158.2	50.00	84.1	85-116	1.66	20
Cobalt	1.942	45.45	50.00	87.0	46.83	50.00	89.8	86-115	2.99	20
Copper	5.888	49.16	50.00	86.5	50.17	50.00	88.6	85-118	2.03	20
Iron	1170	5905	5000	94.7	6056	5000	97.7	87-118	2.52	20
Lead	5.000	44.54	50.00	88.8	45.74	50.00	91.2	88-115	2.66	20
Magnesium	14200	18230	5000	80.5	18640	5000	88.7	83-118	2.23	20
Manganese	129.1	168.0	50.00	77.8	173.1	50.00	88.0	87-115	3.02	20
Nickel	136.8	173.4	50.00	73.2	177.7	50.00	81.8	85-117	2.45	20
Potassium	2278	7157	5000	97.6	7272	5000	99.9	87-115	1.59	20
Selenium	1.480	43.78	50.00	84.6	43.76	50.00	84.6	80-120	0.0228	20
Silver	0.2270	42.83	50.00	85.2	43.15	50.00	85.8	85-116	0.754	20
Sodium	69480	71420	5000	38.7	73980	5000	90.0	85-117	3.53	20
Thallium	2.000	44.08	50.00	87.9	45.57	50.00	90.9	82-116	3.31	20
Vanadium	5.000	40.81	50.00	87.2	40.25	50.00	86.1	86-115	1.38	20
Zinc	11.53	53.92	50.00	84.8	53.91	50.00	84.8	83-119	0.0223	20

ALS Houston, US Date: 12-Jul-24

Form 5B - Post Digest Sample Recovery

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060293

Date Analyzed: 19-Jun-2024 13:36
Date Extracted: 13-Jun-2024 16:00
Units: ug/L

Lab Sample ID: HS24060434-09PDS
Client Sample ID:

Analysis Method: SW6020A

Analyte	Sample Result	PDS Result	Spike Amount	% Rec	% Rec Limits
Aluminum	19.64	105.4	100	86	80-120
Antimony	1.111	89.53	100	88	80-120
Arsenic	0.439	91.39	100	91	80-120
Barium	315.5	420.3	100	105	80-120
Beryllium	0	84.21	100	84	80-120
Cadmium	0.269	91.44	100	91	80-120
Calcium	17690	26800	10000	91	80-120
Chromium	116.2	208.1	100	92	80-120
Cobalt	1.942	92.19	100	90	80-120
Copper	5.888	96.22	100	90	80-120
Iron	1170	11250	10000	101	80-120
Lead	0	94.22	100	94	80-120
Magnesium	14200	23870	10000	97	80-120
Manganese	129.1	223.6	100	95	80-120
Nickel	136.8	227.3	100	91	80-120
Potassium	2278	12270	10000	100	80-120
Selenium	1.48	91.81	100	90	80-120
Silver	0.227	90.16	100	90	80-120
Sodium	69480	81560	10000	121	80-120
Thallium	0	93.76	100	94	80-120
Vanadium	0	85.61	100	88	80-120
Zinc	11.53	101.5	100	90	80-120

ALS Houston, US Date: 12-Jul-24

Form 7 - Laboratory Control Sample

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060293

Date Analyzed: 18-Jun-2024 14:16
Date Extracted: 18-Jun-2024 09:00
Units: ug/L

Lab Sample ID: LCS-213707 Analysis Method: SW7470A

Analyte	Spike Amount	LCS Result	% Rec	% Rec Limits
Mercury	5	4.21	84	82-119

ALS Houston, US Date: 12-Jul-24

Form 7 - Laboratory Control Sample

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060293

Date Analyzed: 19-Jun-2024 12:42
Date Extracted: 13-Jun-2024 16:00
Units: ug/L

Lab Sample ID: LCS-213517 Analysis Method: SW6020A

Analyte	Spike Amount	LCS Result	% Rec	% Rec Limits
Aluminum	100	107.9	108	84-117
Antimony	50	44.61	89	85-117
Arsenic	50	45.07	90	84-116
Barium	50	47.12	94	86-114
Beryllium	50	44.43	89	83-121
Cadmium	50	46.44	93	87-115
Calcium	5000	4720	94	87-118
Chromium	50	46.6	93	85-116
Cobalt	50	46.67	93	86-115
Copper	50	47.38	95	85-118
Iron	5000	4766	95	87-118
Lead	50	46.71	93	88-115
Magnesium	5000	4542	91	83-118
Manganese	50	49.9	100	87-115
Nickel	50	46.97	94	85-117
Potassium	5000	4670	93	87-115
Selenium	50	46.38	93	80-120
Silver	50	46.1	92	85-116
Sodium	5000	4637	93	85-117
Thallium	50	46.22	92	82-116
Vanadium	50	45.53	91	86-115
Zinc	50	47.6	95	83-119

ALS Houston, US Date: 12-Jul-24

Form 8 - ICP Serial Dilutions

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060293

Date Analyzed: 19-Jun-2024 13:30
Date Extracted: 13-Jun-2024 16:00
Units: ug/L

Lab Sample ID: HS24060434-09SD
Client Sample ID:

Analysis Method: SW6020A

Analyte	Sample Result	C	SD Result	C	RPD	Q
Aluminum	19.64		13.36	J	32	
Antimony	1.111	J	2.317	J	109	
Arsenic	0.439	J	0	U	0	
Barium	315.5		310.8		1	
Beryllium	0	U	0	U	0	
Cadmium	0.269	J	0	U	0	
Calcium	17690		17730		0	
Chromium	116.2		114.4		2	
Cobalt	1.942	J	2.001	J	3	
Copper	5.888		6.162	J	5	
Iron	1170		1068		9	
Lead	0	U	0	U	0	
Magnesium	14200		13270		7	
Manganese	129.1		130.6		1	
Nickel	136.8		141.2		3	
Potassium	2278		2350		3	
Selenium	1.48	J	0	U	0	
Silver	0.227	J	0	U	0	
Sodium	69480		72230		4	
Thallium	0	U	0	U	0	
Vanadium	0	U	0	U	0	
Zinc	11.53		12.33	J	7	

Report Generated By Teledyne Leeman QuickTrace

Analyst: ALSHS.NoUser,

Worksheet file: C:\Users\Public\Documents\Teledyne CETAC\QuickTrace\Worksheets\061824AW.wszf

Creation Date: 6/18/2024 10:29:23 AM

Comment:

Results

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
Calibration Blank					STD	06/18/24 10:46:27 am	0.000	167	13.17		
	Replicates	134.5	180.6	170.2	181.0						
Standard #1 (0.2 ppb)					STD	06/18/24 10:48:09 am	0.200	1277	0.63	-0.40%	
	Replicates	1272.8	1267.0	1283.6	1282.6						
Standard #2 (0.5 ppb)					STD	06/18/24 10:49:52 am	0.500	2948	0.54	-0.93%	
	Replicates	2935.0	2970.4	2939.3	2948.1						
Standard #3 (2.0 ppb)					STD	06/18/24 10:51:34 am	2.000	11527	0.38	0.75%	
	Replicates	11462.5	11537.7	11554.5	11553.7						
Standard #4 (5.0 ppb)					STD	06/18/24 10:53:17 am	5.000	28365	0.30	-0.04%	
	Replicates	28268.0	28458.1	28411.7	28322.1						
Standard #5 (10.0 ppb)					STD	06/18/24 10:55:00 am	10.000	56521	0.65	-0.14%	
	Replicates	56048.4	56425.1	56721.6	56889.4						

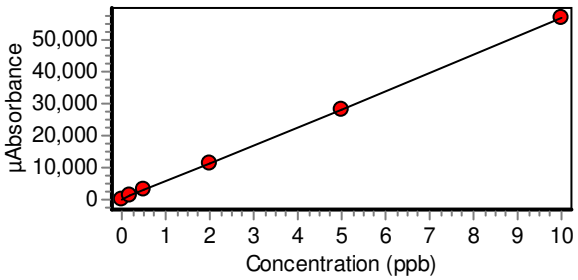
Calibration

Equation: Abs = 5645.067x + 152.036

R2: 0.99999 RSE: 0.74%

SEE: 61.1276

Flags:



ICCV					UNK	06/18/24 10:59:22 am	5.000	28355	0.15		
	Replicates	28300.9	28385.9	28391.3	28340.2						
ICV					UNK	06/18/24 11:01:03 am	5.380	30524	0.54		
	Replicates	30295.1	30517.4	30639.8	30642.1						
ICB					UNK	06/18/24 11:02:45 am	-0.006	120	68.28		
	Replicates	136.1	112.9	91.1	138.1						
CRA					UNK	06/18/24 11:04:27 am	0.191	1228	0.66		
	Replicates	1221.6	1238.2	1227.3	1225.6						
CCV					UNK	06/18/24 11:08:47 am	4.970	28223	0.30		
	Replicates	28116.1	28195.4	28272.1	28308.3						
CCB					UNK	06/18/24 11:10:31 am	-0.010	96	46.98		
	Replicates	109.3	126.9	71.9	77.8						
MBLK-213690					UNK	06/18/24 11:15:34 am	-0.003	137	122.29		
	Replicates	145.7	120.5	122.9	158.8						

Sample Name				Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
LCS-213690				UNK	06/18/24 11:17:16 am	4.840	27485	0.53		
Replicates	27527.1	27635.3	27490.9	27287.9						
MBLKT1-213541				UNK	06/18/24 11:18:58 am	0.006	186	38.81		
Replicates	192.0	176.6	174.3	202.4						
MBLKT2-213593				UNK	06/18/24 11:20:41 am	-0.017	58	12.27		
Replicates	59.7	61.3	42.3	69.7						
MBLKT3-213595				UNK	06/18/24 11:22:23 am	-0.014	73	20.11		
Replicates	91.9	75.3	53.1	70.3						
HS24060695-01				UNK	06/18/24 11:24:06 am	-0.016	64	19.02		
Replicates	53.5	49.6	65.0	87.0						
HS24060695-02				UNK	06/18/24 11:25:49 am	-0.031	-24	7.22		
Replicates	-22.8	-20.1	-41.5	-11.4						
HS24060695-03				UNK	06/18/24 11:27:32 am	0.001	156	151.02		
Replicates	147.7	156.9	158.4	159.4						
HS24060695-04				UNK	06/18/24 11:29:13 am	-0.011	90	49.24		
Replicates	53.5	88.8	128.4	89.2						
HS24060695-04MS				UNK	06/18/24 11:30:55 am	4.550	25856	0.60		
Replicates	25685.6	25778.1	25929.7	26029.7						
CCV				UNK	06/18/24 11:33:51 am	4.930	27979	0.51		
Replicates	27780.4	27978.3	28045.9	28110.5						
CCB				UNK	06/18/24 11:35:35 am	0.001	156	119.61		
Replicates	161.6	151.7	158.1	152.5						
HS24060695-04MSD				UNK	06/18/24 11:38:19 am	4.510	25598	0.97		
Replicates	25293.2	25527.1	25707.3	25865.4						
HS24060695-05				UNK	06/18/24 11:40:01 am	-0.029	-9	4.79		
Replicates	-6.2	-8.3	-20.1	-2.1						
HS24060695-06				UNK	06/18/24 11:41:43 am	-0.022	28	20.53		
Replicates	1.5	41.0	12.2	56.8						
HS24060695-07				UNK	06/18/24 11:43:25 am	-0.001	145	291.10		
Replicates	117.0	156.5	150.3	157.9						
HS24060695-08				UNK	06/18/24 11:45:07 am	-0.016	63	6.51		
Replicates	68.5	57.2	58.4	67.0						
HS24060695-09				UNK	06/18/24 11:46:50 am	-0.004	130	120.81		
Replicates	90.7	135.4	152.8	139.8						
HS24060695-10				UNK	06/18/24 11:48:32 am	0.008	199	28.56		
Replicates	186.0	189.6	214.2	206.0						
HS24060695-11				UNK	06/18/24 11:50:15 am	-0.004	132	34.14		
Replicates	128.6	126.8	142.0	129.8						

Sample Name				Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
HS24060695-12				UNK	06/18/24 11:51:58 am	-0.007	114	61.39		
	Replicates	100.5	94.2	113.0	147.0					
HS24060695-13				UNK	06/18/24 11:53:41 am	-0.006	118	60.45		
	Replicates	97.9	145.6	107.8	120.4					
CCV				UNK	06/18/24 11:56:09 am	4.890	27759	0.51		
	Replicates	27566.2	27753.1	27835.3	27882.8					
CCB				UNK	06/18/24 11:57:53 am	-0.007	111	17.22		
	Replicates	116.4	111.3	101.6	116.3					
HS24060695-14				UNK	06/18/24 12:00:16 pm	-0.005	124	39.71		
	Replicates	133.4	127.6	107.9	127.3					
HS24060695-15				UNK	06/18/24 12:01:58 pm	-0.006	119	47.11		
	Replicates	113.9	104.6	141.2	114.8					
HS24060695-16				UNK	06/18/24 12:03:39 pm	-0.012	86	17.42		
	Replicates	85.9	90.6	97.0	70.0					
HS24060695-17				UNK	06/18/24 12:05:21 pm	-0.021	32	13.72		
	Replicates	44.0	7.6	36.0	39.8					
HS24060695-18				UNK	06/18/24 12:07:03 pm	-0.011	91	17.76		
	Replicates	104.8	78.4	88.4	91.6					
HS24060695-19				UNK	06/18/24 12:08:45 pm	-0.016	61	12.34		
	Replicates	74.9	64.4	51.4	51.8					
HS24060695-20				UNK	06/18/24 12:10:28 pm	-0.007	114	45.70		
	Replicates	104.0	97.5	120.1	135.9					
MBLKL-213704				UNK	06/18/24 12:14:24 pm	-0.017	55	10.61		
	Replicates	48.5	70.1	54.3	48.0					
LCS-213704				UNK	06/18/24 12:16:06 pm	4.770	27102	0.61		
	Replicates	26885.6	27058.6	27228.3	27235.2					
LCSD-213704				UNK	06/18/24 12:17:49 pm	4.890	27730	0.98		
	Replicates	27337.1	27764.3	27918.6	27901.2					
CCV				UNK	06/18/24 12:22:31 pm	4.770	27089	1.54		
	Replicates	26537.2	27018.8	27326.0	27474.0					
CCB				UNK	06/18/24 12:24:15 pm	-0.004	127	50.88		
	Replicates	135.9	117.1	140.1	115.4					
LOQ-213704				UNK	06/18/24 12:25:58 pm	0.194	1247	2.26		
	Replicates	1216.6	1253.2	1243.6	1276.4					
HS24060043-01				UNK	06/18/24 12:27:41 pm	-0.010	95	28.88		
	Replicates	84.2	87.5	119.7	90.3					
HS24060268-01				UNK	06/18/24 12:29:22 pm	-0.008	110	33.52		
	Replicates	93.1	124.9	117.3	103.1					

Sample Name			Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
HS24060421-01			UNK	06/18/24 12:31:04 pm	-0.020	41	17.46		
Replicates	39.2	36.1	67.3	20.7					
HS24060569-01			UNK	06/18/24 12:32:46 pm	-0.017	54	10.31		
Replicates	57.0	66.2	49.0	42.8					
HS24060569-02			UNK	06/18/24 12:34:28 pm	-0.014	75	9.01		
Replicates	70.8	78.8	67.7	82.7					
HS24060581-01			UNK	06/18/24 12:36:10 pm	-0.015	66	11.39		
Replicates	56.4	60.0	73.8	75.8					
HS24060581-02			UNK	06/18/24 12:37:52 pm	-0.030	-20	7.00		
Replicates	-14.5	-29.5	-29.9	-5.3					
HS24060581-02MS			UNK	06/18/24 12:39:34 pm	4.580	26011	0.27		
Replicates	25941.4	26085.4	26058.0	25960.6					
HS24060581-02MSD			UNK	06/18/24 12:41:17 pm	4.540	25772	0.72		
Replicates	25509.2	25781.0	25910.6	25888.0					
CCV			UNK	06/18/24 12:46:12 pm	4.890	27746	1.04		
Replicates	27332.3	27776.7	27924.4	27951.7					
CCB			UNK	06/18/24 12:47:56 pm	0.001	158	153.77		
Replicates	164.1	146.2	155.2	167.6					
HS24060581-03			UNK	06/18/24 12:49:38 pm	-0.012	86	32.76		
Replicates	80.6	90.3	60.7	112.7					
HS24060581-03MS			UNK	06/18/24 12:51:21 pm	4.700	26695	0.65		
Replicates	26447.9	26795.5	26829.1	26708.9					
HS24060581-03MSD			UNK	06/18/24 12:55:35 pm	4.950	28095	0.47		
Replicates	27964.9	28222.9	28191.8	28000.8					
HS24060581-04			UNK	06/18/24 12:57:18 pm	-0.021	34	9.11		
Replicates	26.1	44.4	42.4	23.8					
HS24060598091			UNK	06/18/24 12:59:00 pm	-0.013	80	20.02		
Replicates	99.8	81.2	71.4	67.4					
HS24060689-01			UNK	06/18/24 01:00:42 pm	-0.009	103	26.50		
Replicates	84.4	113.0	109.4	106.6					
HS24060722-01			UNK	06/18/24 01:02:24 pm	-0.018	49	29.55		
Replicates	58.4	51.3	6.9	79.3					
HS24060772-01			UNK	06/18/24 01:04:06 pm	-0.012	85	14.45		
Replicates	90.5	72.6	94.4	81.6					
MBLK-213695			UNK	06/18/24 01:05:48 pm	-0.001	149	216.07		
Replicates	143.0	150.3	144.8	157.8					
LCS-213695			UNK	06/18/24 01:07:30 pm	4.690	26639	1.45		
Replicates	26124.6	26586.5	26839.1	27004.3					

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
CCV					UNK	06/18/24 01:13:21 pm	4.740	26898	0.95		
	Replicates	26538.8	26903.3	27040.3	27109.2						
CCB					UNK	06/18/24 01:15:04 pm	-0.002	143	158.20		
	Replicates	123.1	152.6	152.6	144.4						
HS24060217-01					UNK	06/18/24 01:16:47 pm	-0.013	82	25.60		
	Replicates	78.1	94.3	57.7	96.7						
HS24060217-02					UNK	06/18/24 01:18:29 pm	-0.003	134	33.64		
	Replicates	134.0	142.6	132.0	128.6						
HS24060217-03					UNK	06/18/24 01:20:12 pm	-0.012	84	36.05		
	Replicates	109.0	96.8	52.9	76.7						
HS24060807-02					UNK	06/18/24 01:21:54 pm	0.092	672	3.05		
	Replicates	651.1	677.3	671.3	689.0						
HS24060807-03					UNK	06/18/24 01:23:37 pm	0.065	517	3.70		
	Replicates	501.0	510.9	526.5	529.8						
HS24060807-05					UNK	06/18/24 01:25:20 pm	-0.016	60	16.96		
	Replicates	42.3	53.8	67.4	77.8						
HS24060807-10					UNK	06/18/24 01:27:02 pm	0.099	713	3.12		
	Replicates	694.4	732.2	723.6	703.4						
HS24060852-01					UNK	06/18/24 01:28:45 pm	-0.004	128	80.23		
	Replicates	138.6	126.9	145.5	102.1						
HS24060852-01MS					UNK	06/18/24 01:30:27 pm	4.660	26438	0.92		
	Replicates	26078.6	26506.1	26590.5	26577.3						
HS24060852-01MSD					UNK	06/18/24 01:32:09 pm	4.710	26766	0.76		
	Replicates	26464.9	26833.2	26900.0	26866.0						
CCV					UNK	06/18/24 01:34:30 pm	4.860	27597	0.28		
	Replicates	27486.5	27664.8	27634.2	27602.2						
CCB					UNK	06/18/24 01:36:14 pm	-0.020	40	16.63		
	Replicates	66.2	40.6	31.8	23.2						
MBLK-213691					UNK	06/18/24 01:40:00 pm	-0.012	85	42.51		
	Replicates	48.6	77.5	107.9	107.5						
LCS-213691					UNK	06/18/24 01:41:42 pm	4.790	27174	0.43		
	Replicates	27001.6	27249.2	27246.6	27197.0						
HS24060251-01					UNK	06/18/24 01:43:25 pm	-0.025	14	14.13		
	Replicates	3.9	39.5	-5.7	16.7						
HS24060251-01MS					UNK	06/18/24 01:45:07 pm	4.550	25822	1.14		
	Replicates	25395.8	25868.4	26004.1	26020.7						
HS24060251-01MSD					UNK	06/18/24 01:46:50 pm	4.560	25895	0.41		
	Replicates	25740.2	25953.3	25972.8	25912.1						

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
HS24060251-02					UNK	06/18/24 01:48:32 pm	0.306	1881	0.49		
	Replicates	1887.7	1871.6	1889.0	1876.8						
HS24060251-03					UNK	06/18/24 01:50:15 pm	-0.002	142	91.91		
	Replicates	143.9	140.3	129.5	152.7						
HS24060251-04					UNK	06/18/24 01:51:58 pm	-0.003	136	86.02		
	Replicates	116.4	145.3	146.3	135.7						
HS24060251-05					UNK	06/18/24 01:53:40 pm	-0.010	98	32.04		
	Replicates	90.5	103.0	80.0	120.0						
HS24060251-06					UNK	06/18/24 01:55:23 pm	-0.011	87	7.67		
	Replicates	92.6	83.9	81.7	89.5						
CCV					UNK	06/18/24 01:57:24 pm	4.870	27662	1.69		
	Replicates	27008.1	27660.4	28022.6	27957.2						
CCB					UNK	06/18/24 01:59:08 pm	-0.015	69	10.73		
	Replicates	59.1	64.1	73.5	78.9						
HS24060251-07					UNK	06/18/24 02:01:58 pm	-0.007	111	21.39		
	Replicates	121.1	113.7	100.1	110.3						
HS24060251-08					UNK	06/18/24 02:03:41 pm	-0.017	58	17.63		
	Replicates	43.7	50.9	81.8	56.1						
HS24060416-01					UNK	06/18/24 02:05:23 pm	-0.008	105	25.75		
	Replicates	120.9	91.7	101.1	105.3						
HS24060416-02					UNK	06/18/24 02:07:05 pm	-0.014	73	16.71		
	Replicates	70.4	55.0	80.0	85.2						
HS24060812-01					UNK	06/18/24 02:08:48 pm	0.037	362	10.35		
	Replicates	352.6	347.6	354.9	394.9						
HS24060850-01					UNK	06/18/24 02:10:30 pm	0.026	297	10.76		
	Replicates	286.2	280.9	310.3	310.3						
MBLK-213707					UNK	06/18/24 02:14:45 pm	-0.018	49	13.18		
	Replicates	52.3	61.9	52.9	30.1						
LCS-213707					UNK	06/18/24 02:16:28 pm	4.210	23890	0.96		
	Replicates	23573.6	23889.7	24006.1	24091.7						
HS24060293-04					UNK	06/18/24 02:18:11 pm	-0.028	-4	4.18		
	Replicates	-7.1	-11.7	1.1	1.7						
HS24060293-05					UNK	06/18/24 02:19:54 pm	-0.013	81	48.92		
	Replicates	50.7	50.2	106.4	115.0						
CCV					UNK	06/18/24 02:21:37 pm	4.830	27394	1.03		
	Replicates	26979.0	27475.3	27592.8	27529.2						
CCB					UNK	06/18/24 02:23:21 pm	-0.004	127	58.00		
	Replicates	120.0	117.3	148.5	123.3						

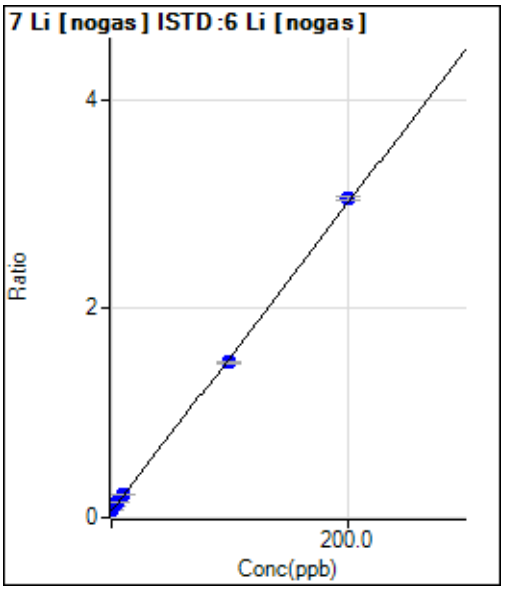
Sample Name		Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
HS24060293-06		UNK	06/18/24 02:25:03 pm	-0.012	85	34.72		
Replicates	51.6	93.0	106.0	88.8				
HS24060434-02		UNK	06/18/24 02:26:46 pm	-0.015	70	28.35		
Replicates	56.6	44.4	95.6	82.0				
HS24060434-03		UNK	06/18/24 02:28:28 pm	-0.021	36	4.50		
Replicates	41.5	34.2	38.2	29.4				
HS24060434-04		UNK	06/18/24 02:30:11 pm	0.006	188	31.90		
Replicates	175.0	184.7	188.1	202.3				
HS24060434-05		UNK	06/18/24 02:31:54 pm	-0.002	140	233.92		
Replicates	137.3	107.8	138.6	176.4				
HS24060434-09		UNK	06/18/24 02:33:36 pm	-0.011	93	22.20		
Replicates	98.4	94.6	74.0	104.3				
HS24060434-09MS		UNK	06/18/24 02:35:19 pm	4.410	25064	0.20		
Replicates	24991.3	25077.5	25085.3	25103.7				
HS24060434-09MSD		UNK	06/18/24 02:37:02 pm	4.380	24865	0.46		
Replicates	24706.9	24950.8	24947.8	24852.4				
CCV		UNK	06/18/24 02:52:11 pm	4.790	27169	0.83		
Replicates	26841.9	27216.7	27349.4	27268.4				
CCB		UNK	06/18/24 02:53:55 pm	-0.003	132	49.86		
Replicates	122.8	131.9	128.6	145.9				
HS24060487-01		UNK	06/18/24 02:55:37 pm	-0.021	32	12.05		
Replicates	27.8	13.0	43.8	42.6				
HS24060487-03		UNK	06/18/24 02:57:20 pm	-0.014	72	13.06		
Replicates	58.2	70.2	75.3	83.2				
HS24060487-04		UNK	06/18/24 02:59:03 pm	-0.013	78	9.27		
Replicates	68.3	78.7	83.9	81.5				
HS24060487-05		UNK	06/18/24 03:00:46 pm	-0.012	86	44.16		
Replicates	66.6	62.0	125.6	90.4				
HS24060487-07		UNK	06/18/24 03:02:28 pm	-0.020	39	8.90		
Replicates	41.6	46.3	24.7	45.1				
MBLK-213707		UNK	06/18/24 03:04:11 pm	-0.015	65	25.01		
Replicates	40.4	91.6	57.4	71.6				
LCS-213707		UNK	06/18/24 03:05:53 pm	4.520	25690	0.60		
Replicates	25465.2	25772.0	25800.0	25721.4				
MBLKT1-213593		UNK	06/18/24 03:07:36 pm	-0.018	51	15.56		
Replicates	36.2	62.5	40.1	67.3				
MBLKT2-213467		UNK	06/18/24 03:09:19 pm	-0.014	75	24.13		
Replicates	58.0	61.0	91.0	91.8				

Sample Name	Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
MBLKT3-213697	UNK	06/18/24 03:11:01 pm	-0.016	61	28.06		
Replicates	51.8	32.5	67.2	92.9			
CCV	UNK	06/18/24 03:16:26 pm	4.590	26037	1.00		
Replicates	25691.5	25996.5	26171.1	26287.9			
CCB	UNK	06/18/24 03:18:10 pm	-0.001	148	285.40		
Replicates	152.1	134.2	144.6	161.2			
MBLKT4-213699	UNK	06/18/24 03:19:53 pm	-0.002	138	83.14		
Replicates	143.8	136.6	149.4	122.6			
HS24060682-01	UNK	06/18/24 03:21:36 pm	-0.017	56	18.09		
Replicates	64.0	45.5	76.7	38.7			
HS24060695-21	UNK	06/18/24 03:23:18 pm	-0.013	79	26.58		
Replicates	75.3	80.6	103.9	57.0			
HS24060695-21MS	UNK	06/18/24 03:25:01 pm	4.250	24164	0.96		
Replicates	23848.1	24152.8	24272.4	24384.1			
HS24060695-21MSD	UNK	06/18/24 03:26:44 pm	4.250	24125	0.78		
Replicates	23874.7	24107.7	24207.7	24309.7			
HS24060928-01	UNK	06/18/24 03:28:27 pm	0.067	527	4.70		
Replicates	502.5	541.8	537.8	528.0			
HS24060930-01	UNK	06/18/24 03:30:09 pm	0.269	1672	1.29		
Replicates	1645.9	1668.8	1688.4	1685.7			
HS24060930-02	UNK	06/18/24 03:31:52 pm	-0.014	73	6.64		
Replicates	74.9	69.7	68.5	79.9			
HS24060983-01	UNK	06/18/24 03:33:35 pm	-0.015	69	13.05		
Replicates	77.9	79.3	63.0	57.6			
HS24061051-01	UNK	06/18/24 03:35:18 pm	-0.025	13	12.04		
Replicates	1.5	37.2	2.0	12.6			
CCV	UNK	06/18/24 03:40:32 pm	4.930	27995	2.18		
Replicates	27206.5	27865.5	28299.1	28607.1			
CCB	UNK	06/18/24 03:42:16 pm	-0.003	136	69.40		
Replicates	125.3	129.8	136.1	151.3			
HS24061051-02	UNK	06/18/24 03:43:59 pm	-0.021	33	6.95		
Replicates	23.6	30.5	33.5	43.5			
HS24061051-03	UNK	06/18/24 03:45:42 pm	-0.016	60	11.20		
Replicates	56.5	74.5	50.3	60.3			
CCV	UNK	06/18/24 03:47:25 pm	4.920	27909	2.16		
Replicates	27128.2	27779.6	28224.0	28505.8			
CCB	UNK	06/18/24 03:49:09 pm	-0.006	119	65.82		
Replicates	91.0	124.3	114.7	144.1			

Calibration for 281_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\061924A.b\
Analysis File: 061924A.batch.bin
DA Date-Time: 6/19/2024 11:54:57 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

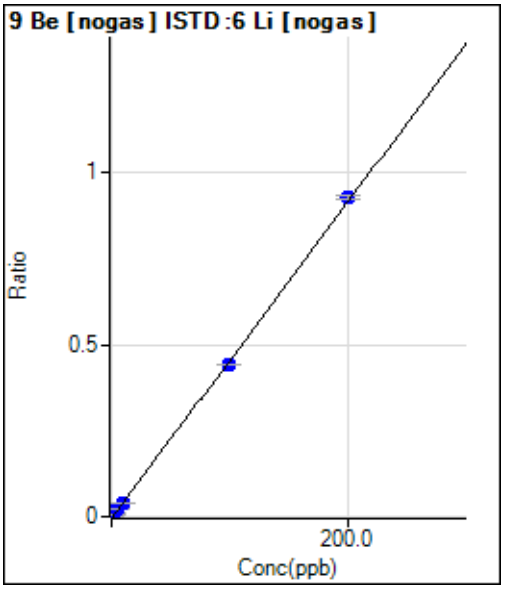
Level	Standard Data File	Sample Name	Acq. Date-Time
1	274CALB.d	CAL BLK	6/19/2024 11:21:56 PM
2	275CALS.d	2/10/200	6/19/2024 11:24:12 PM
3	276CALS.d	5/25/500	6/19/2024 11:26:28 PM
4	277CALS.d	10/50/1000	6/19/2024 11:28:43 PM
5	278CALS.d	100/500/10K	6/19/2024 11:30:59 PM
6	279CALS.d	200/1000/20K	6/19/2024 11:33:14 PM
7			



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	36609.52	0.0776	P	1.6	
2	☐	2.000	1.953	49844.41	0.1064	P	1.7	-2.4
3	☐	5.000	4.650	68009.05	0.1461	P	1.3	-7.0
4	☐	10.000	9.322	99836.48	0.2149	P	1.1	-6.8
5	☐	100.000	95.785	652957.37	1.4888	P	1.1	-4.2
6	☐	200.000	202.151	1230715.74	3.0559	P	0.7	1.1
7	☐	1.000						

y = 0.0147 * x + 0.0776
R = 0.9997
DL = 0.2516 ppb
BEC = 5.266 ppb

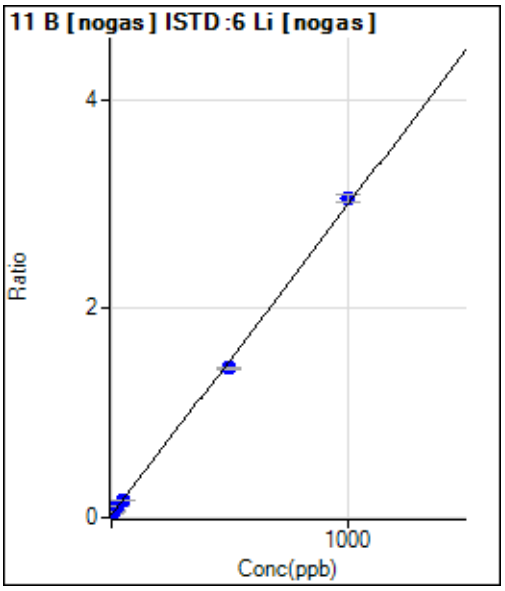
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	33.33	0.0001	P	16.7	
2	☐	2.000	1.768	3842.18	0.0082	P	5.0	-11.6
3	☐	5.000	4.466	9588.03	0.0206	P	2.9	-10.7
4	☐	10.000	8.863	18953.27	0.0408	P	1.8	-11.4
5	☐	100.000	96.174	193895.45	0.4421	P	0.8	-3.8
6	☐	200.000	201.986	373910.64	0.9284	P	1.1	1.0
7	☐	1.000						

y = 0.0046 * x + 7.0597E-005
R = 0.9998
DL = 0.007702 ppb
BEC = 0.01536 ppb

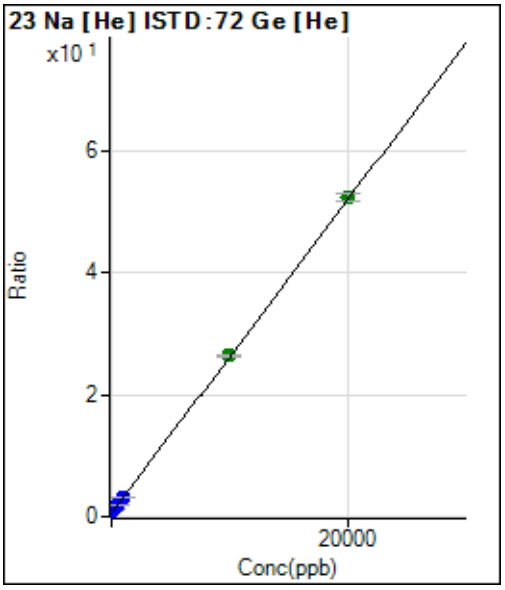
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	19672.55	0.0417	P	4.1	
2	☐	10.000	7.476	29932.16	0.0639	P	2.6	-25.2
3	☐	25.000	20.932	48309.76	0.1038	P	2.2	-16.3
4	☐	50.000	42.640	78119.72	0.1682	P	2.3	-14.7
5	☐	500.000	468.420	627676.03	1.4311	P	1.1	-6.3
6	☐	1000.000	1016.285	1230798.63	3.0561	P	1.9	1.6
7	☐	5.000						

y = 0.0030 * x + 0.0417
R = 0.9993
DL = 1.74 ppb
BEC = 14.06 ppb

Weight: <None>
Min Conc: <None>

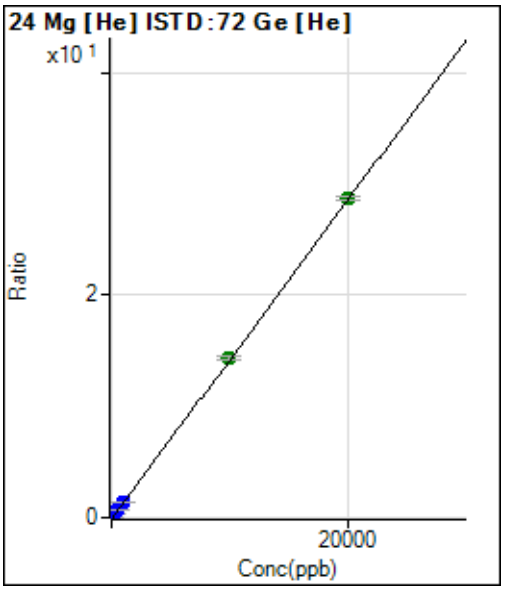


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	292680.42	0.8384	P	0.7	
2	☐	200.000	158.973	438884.39	1.2467	P	1.1	-20.5
3	☐	500.000	423.284	681152.41	1.9255	P	2.4	-15.3
4	☐	1000.000	857.824	1074162.04	3.0415	P	0.6	-14.2
5	☐	10000.00	9922.694	9127129.03	26.3221	A	1.1	-0.8
6	☐	20000.00	20048.09	17487699.32	52.3264	A	1.9	0.2
7	☐	100.000						

y = 0.0026 * x + 0.8384
R = 1.0000
DL = 6.948 ppb
BEC = 326.5 ppb

Weight: <None>
Min Conc: <None>

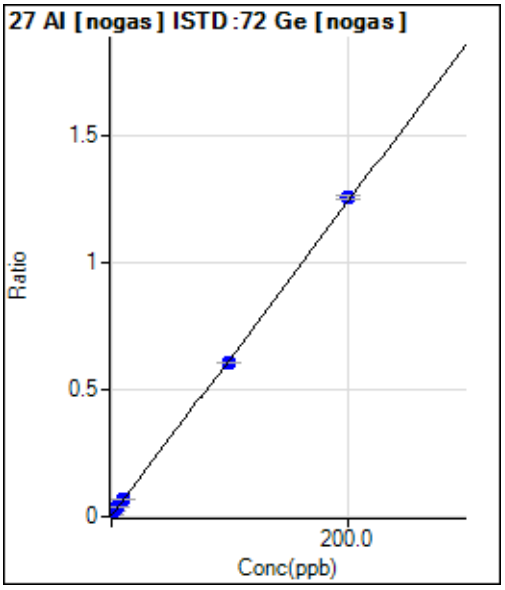
Calibration for 281_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5444.40	0.0156	P	7.1	
2	☐	200.000	178.385	95628.28	0.2717	P	2.3	-10.8
3	☐	500.000	446.282	232164.87	0.6563	P	0.1	-10.7
4	☐	1000.000	896.593	460077.28	1.3027	P	0.3	-10.3
5	☐	10000.00	9989.550	4977838.15	14.3562	A	2.3	-0.1
6	☐	20000.00	20011.95	9606138.19	28.7439	A	1.6	0.1
7	☐	100.000						

y = 0.0014 * x + 0.0156
R = 1.0000
DL = 2.322 ppb
BEC = 10.86 ppb

Weight: <None>
Min Conc: <None>

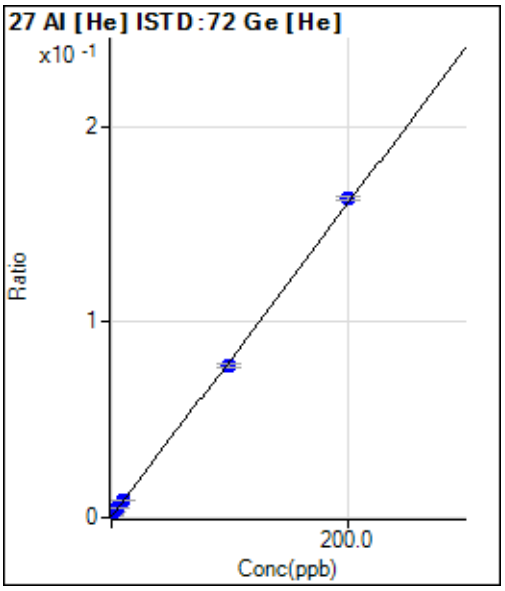


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	11484.51	0.0100	P	6.6	
2	☐	2.000	1.785	24199.30	0.0210	P	1.0	-10.8
3	☐	5.000	4.785	45403.88	0.0396	P	0.1	-4.3
4	☐	10.000	9.885	81273.81	0.0711	P	1.4	-1.1
5	☐	100.000	96.429	691979.81	0.6064	P	1.1	-3.6
6	☐	200.000	201.799	1377754.41	1.2582	P	1.5	0.9
7	☐	1.000						

y = 0.0062 * x + 0.0100
R = 0.9998
DL = 0.319 ppb
BEC = 1.613 ppb

Weight: <None>
Min Conc: <None>

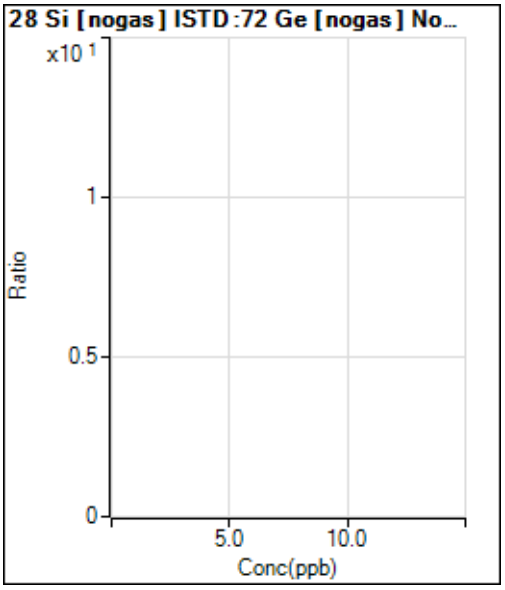
Calibration for 281_ICV.d



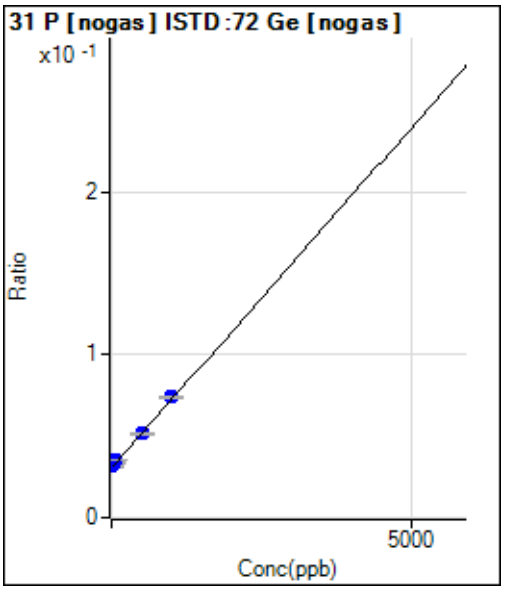
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	456.68	0.0013	P	28.1	
2	☐	2.000	2.352	1123.40	0.0032	P	6.3	17.6
3	☐	5.000	4.744	1806.81	0.0051	P	11.6	-5.1
4	☐	10.000	9.641	3187.05	0.0090	P	5.5	-3.6
5	☐	100.000	95.188	26860.55	0.0775	P	2.6	-4.8
6	☐	200.000	202.427	54570.11	0.1633	P	1.1	1.2
7	☐	1.000						

y = 8.0008E-004 * x + 0.0013
R = 0.9996
DL = 1.381 ppb
BEC = 1.638 ppb

Weight: <None>
Min Conc: <None>



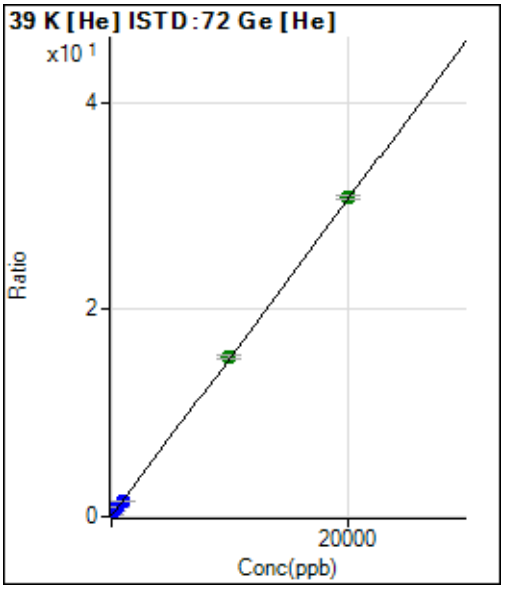
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000						
2	☐	100.000						
3	☐	250.000						
4	☐	500.000						
5	☐	5000.000						
6	☐	10000.00						
7	☐	50.000						



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	36463.71	0.0317	P	2.3	
2	☐	10.000	2.493	36593.98	0.0318	P	2.4	-75.1
3	☐	25.000	47.395	38625.75	0.0337	P	2.1	89.6
4	☐	50.000	90.307	40530.49	0.0355	P	1.2	80.6
5	☐	500.000	471.431	58729.16	0.0515	P	1.8	-5.7
6	☐	1000.000	1011.784	81201.04	0.0742	P	1.9	1.2
7	☐	5.000						

y = 4.1978E-005 * x + 0.0317
R = 0.9983
DL = 50.97 ppb
BEC = 754.7 ppb

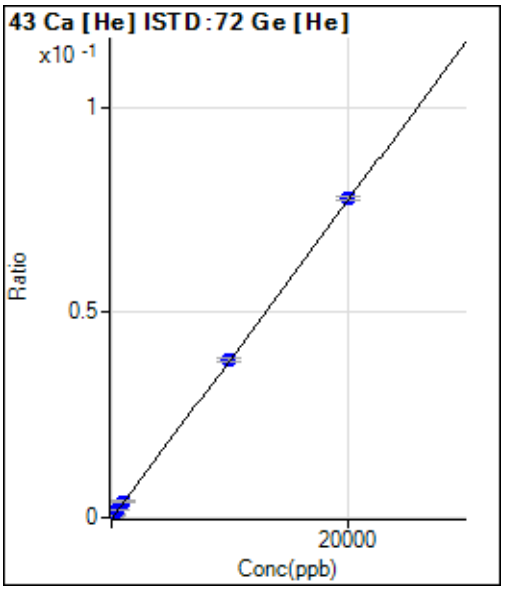
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	77894.92	0.2231	P	0.8	
2	☐	200.000	173.069	171598.12	0.4875	P	1.0	-13.5
3	☐	500.000	428.676	310556.67	0.8778	P	0.5	-14.3
4	☐	1000.000	867.294	546610.51	1.5477	P	0.5	-13.3
5	☐	10000.00	9933.315	5337829.09	15.3939	A	1.9	-0.7
6	☐	20000.00	20042.03	10304746.51	30.8326	A	0.7	0.2
7	☐	100.000						

y = 0.0015 * x + 0.2231
R = 1.0000
DL = 3.318 ppb
BEC = 146.1 ppb

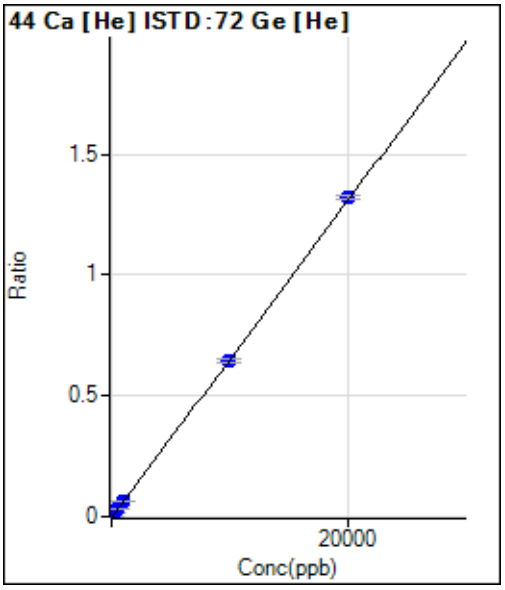
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	20.00	0.0001	P	49.0	
2	☐	200.000	163.636	243.34	0.0007	P	16.1	-18.2
3	☐	500.000	442.044	626.69	0.0018	P	8.0	-11.6
4	☐	1000.000	1002.724	1393.43	0.0039	P	7.1	0.3
5	☐	10000.00	9888.453	13316.02	0.0384	P	2.5	-1.1
6	☐	20000.00	20057.45	26015.81	0.0778	P	1.2	0.3
7	☐	100.000						

y = 3.8778E-006 * x + 5.7129E-005
R = 1.0000
DL = 21.68 ppb
BEC = 14.73 ppb

Weight: <None>
Min Conc: <None>

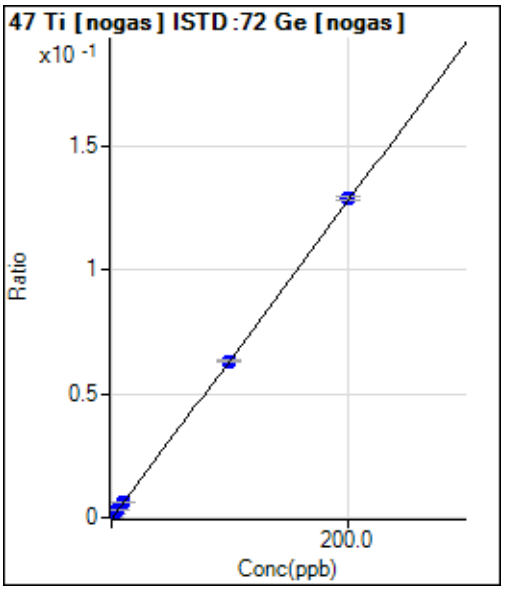


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	376.68	0.0011	P	3.8	
2	☐	200.000	184.122	4637.45	0.0132	P	1.6	-7.9
3	☐	500.000	483.245	11611.28	0.0328	P	1.6	-3.4
4	☐	1000.000	980.993	23137.93	0.0655	P	3.3	-1.9
5	☐	10000.00	9781.476	223164.32	0.6436	P	2.3	-2.2
6	☐	20000.00	20110.79	441826.66	1.3220	P	1.3	0.6
7	☐	100.000						

y = 6.5684E-005 * x + 0.0011
R = 0.9999
DL = 1.867 ppb
BEC = 16.43 ppb

Weight: <None>
Min Conc: <None>

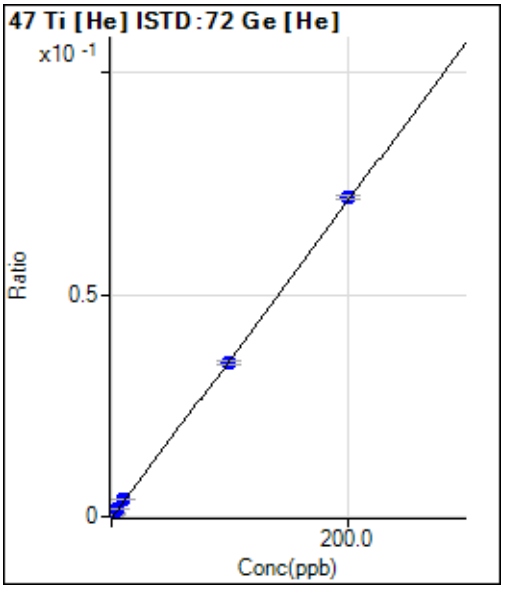
Calibration for 281_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	110.00	0.0001	P	24.1	
2	☐	2.000	1.913	1523.44	0.0013	P	17.6	-4.3
3	☐	5.000	4.695	3563.82	0.0031	P	7.0	-6.1
4	☐	10.000	9.578	7128.46	0.0062	P	4.7	-4.2
5	☐	100.000	98.218	71973.54	0.0631	P	1.4	-1.8
6	☐	200.000	200.921	141178.14	0.1289	P	1.0	0.5
7	☐	1.000						

y = 6.4122E-004 * x + 9.5576E-005
R = 0.9999
DL = 0.1078 ppb
BEC = 0.1491 ppb

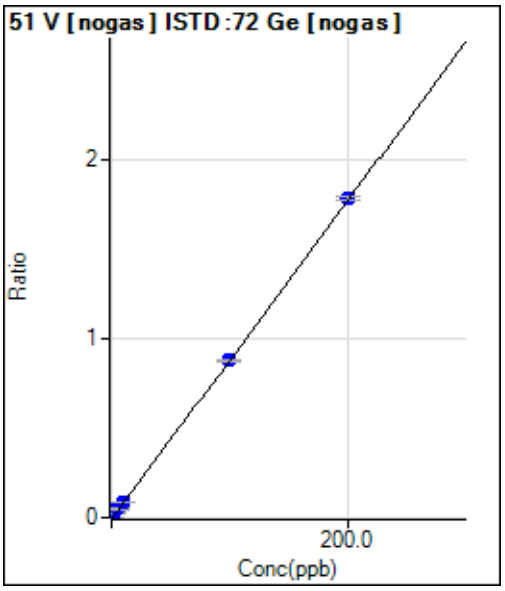
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6.67	0.0000	P	173.2	
2	☐	2.000	1.725	223.34	0.0006	P	37.9	-13.7
3	☐	5.000	4.756	606.69	0.0017	P	11.0	-4.9
4	☐	10.000	10.930	1383.42	0.0039	P	6.1	9.3
5	☐	100.000	96.963	11998.29	0.0346	P	2.1	-3.0
6	☐	200.000	201.481	24022.65	0.0719	P	1.4	0.7
7	☐	1.000						

y = 3.5662E-004 * x + 1.9181E-005
R = 0.9998
DL = 0.2795 ppb
BEC = 0.05378 ppb

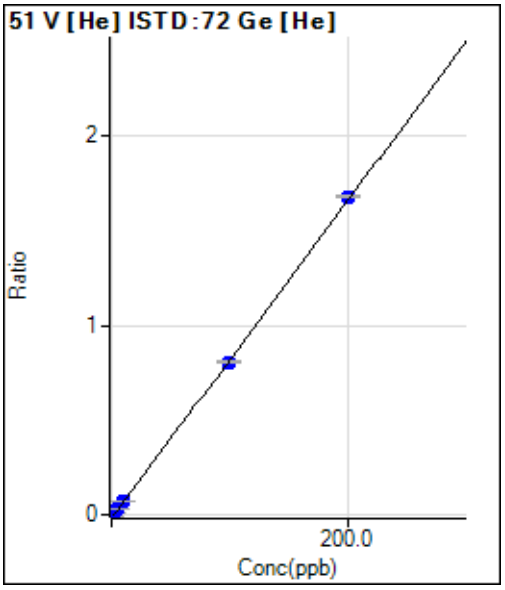
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	-561.31	-0.0005	P	-707.	
2	☐	2.000	2.870	28827.14	0.0251	P	32.1	43.5
3	☐	5.000	5.503	55634.36	0.0485	P	12.5	10.1
4	☐	10.000	9.296	94021.26	0.0823	P	2.9	-7.0
5	☐	100.000	98.977	1004854.24	0.8806	P	1.3	-1.0
6	☐	200.000	200.526	1954190.20	1.7846	P	1.1	0.3
7	☐	1.000						

y = 0.0089 * x - 4.8579E-004
R = 1.0000
DL = 1.159 ppb
BEC = -0.05457 ppb

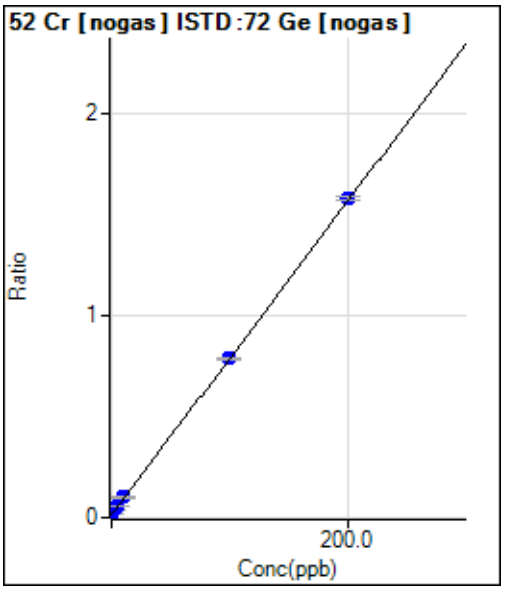
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	-1931.62	-0.0056	P	-47.4	
2	☐	2.000	2.483	5363.99	0.0152	P	10.2	24.2
3	☐	5.000	5.076	13064.67	0.0369	P	10.6	1.5
4	☐	10.000	9.855	27165.90	0.0769	P	4.1	-1.5
5	☐	100.000	97.405	280745.78	0.8096	P	0.6	-2.6
6	☐	200.000	201.298	561162.14	1.6791	P	0.8	0.6
7	☐	1.000						

y = 0.0084 * x - 0.0056
R = 0.9999
DL = 0.9438 ppb
BEC = -0.6633 ppb

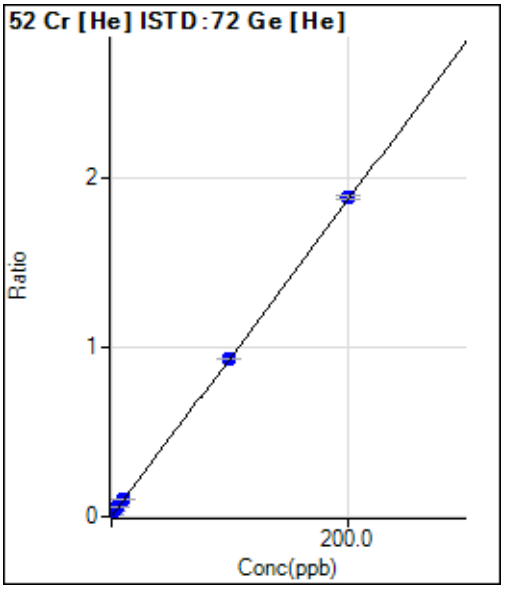
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	24263.09	0.0211	P	4.4	
2	☐	2.000	2.097	43018.22	0.0374	P	2.3	4.9
3	☐	5.000	5.045	69104.42	0.0602	P	2.2	0.9
4	☐	10.000	10.225	114779.83	0.1004	P	2.6	2.2
5	☐	100.000	98.468	896091.36	0.7853	P	1.7	-1.5
6	☐	200.000	200.752	1729204.35	1.5792	P	0.9	0.4
7	☐	1.000						

y = 0.0078 * x + 0.0211
R = 1.0000
DL = 0.3601 ppb
BEC = 2.716 ppb

Weight: <None>
Min Conc: <None>

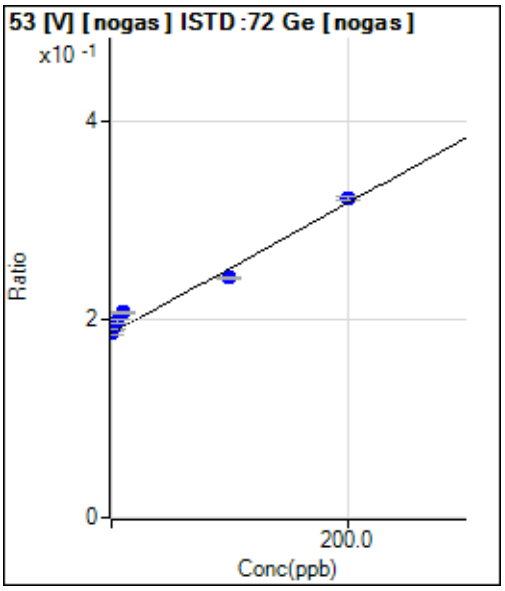


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4037.27	0.0116	P	4.6	
2	☐	2.000	1.984	10593.95	0.0301	P	4.5	-0.8
3	☐	5.000	4.989	20581.00	0.0582	P	1.7	-0.2
4	☐	10.000	10.032	37182.66	0.1053	P	1.5	0.3
5	☐	100.000	98.455	322932.36	0.9313	P	0.3	-1.5
6	☐	200.000	200.771	630682.57	1.8870	P	0.7	0.4
7	☐	1.000						

y = 0.0093 * x + 0.0116
R = 1.0000
DL = 0.1705 ppb
BEC = 1.238 ppb

Weight: <None>
Min Conc: <None>

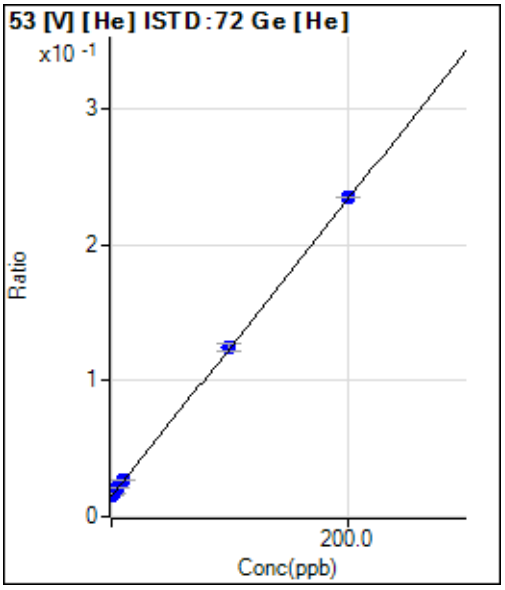
Calibration for 281_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	215063.09	0.1868	P	1.9	
2	☐	2.000	7.700	220982.57	0.1919	P	1.7	285.0
3	☐	5.000	17.788	227779.50	0.1985	P	1.5	255.8
4	☐	10.000	30.945	236777.61	0.2072	P	1.0	209.4
5	☐	100.000	84.995	276996.16	0.2427	P	0.8	-15.0
6	☐	200.000	206.079	353020.97	0.3224	P	0.8	3.0
7	☐	1.000						

y = 6.5773E-004 * x + 0.1868
R = 0.9892
DL = 16.59 ppb
BEC = 284.1 ppb

Weight: <None>
Min Conc: <None>

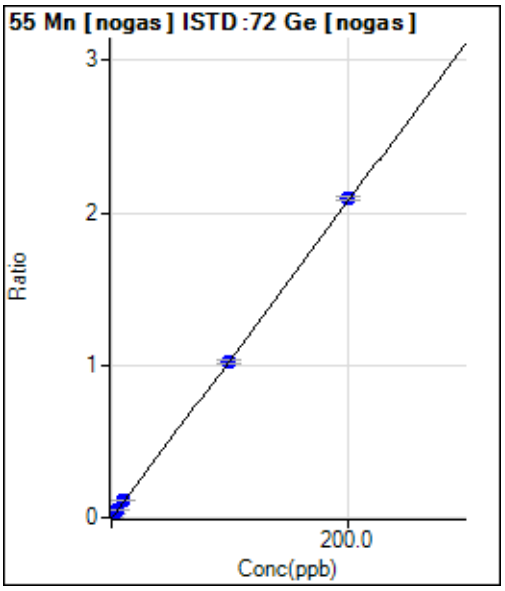


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5654.51	0.0162	P	7.9	
2	☐	2.000	0.852	6031.32	0.0171	P	5.1	-57.4
3	☐	5.000	4.584	7505.35	0.0212	P	5.9	-8.3
4	☐	10.000	9.558	9413.09	0.0267	P	3.0	-4.4
5	☐	100.000	99.346	43265.46	0.1248	P	3.7	-0.7
6	☐	200.000	200.371	78606.87	0.2352	P	0.6	0.2
7	☐	1.000						

y = 0.0011 * x + 0.0162
R = 1.0000
DL = 3.493 ppb
BEC = 14.83 ppb

Weight: <None>
Min Conc: <None>

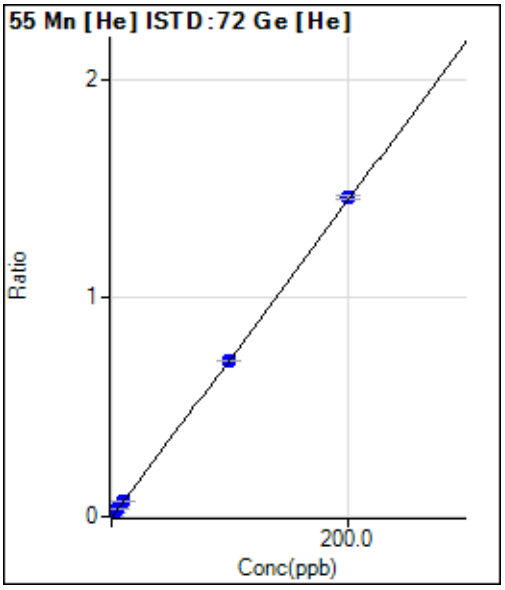
Calibration for 281_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5891.24	0.0051	P	1.7	
2	☐	2.000	1.915	28827.71	0.0250	P	1.6	-4.3
3	☐	5.000	4.867	63955.61	0.0557	P	2.5	-2.7
4	☐	10.000	9.945	124060.04	0.1086	P	1.4	-0.5
5	☐	100.000	97.891	1167707.22	1.0233	P	1.6	-2.1
6	☐	200.000	201.062	2295652.26	2.0965	P	0.6	0.5
7	☐	1.000						

y = 0.0104 * x + 0.0051
R = 0.9999
DL = 0.0253 ppb
BEC = 0.4921 ppb

Weight: <None>
Min Conc: <None>

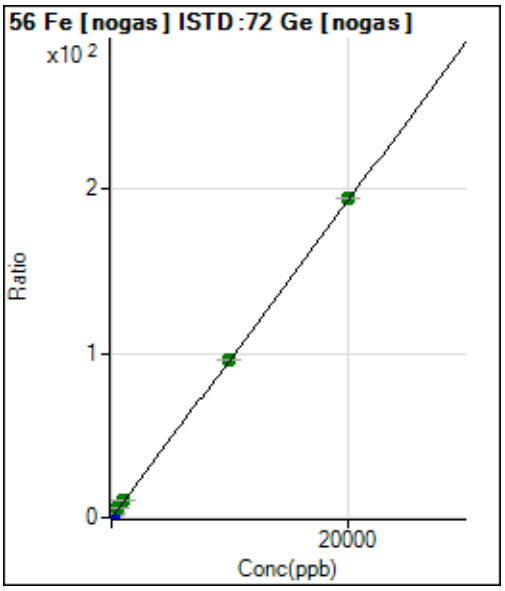


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	273.34	0.0008	P	15.0	
2	☐	2.000	1.973	5321.03	0.0151	P	7.5	-1.4
3	☐	5.000	4.927	12939.07	0.0366	P	1.8	-1.5
4	☐	10.000	9.492	24627.17	0.0697	P	2.6	-5.1
5	☐	100.000	97.793	246587.67	0.7111	P	0.6	-2.2
6	☐	200.000	201.131	488541.44	1.4618	P	0.9	0.6
7	☐	1.000						

y = 0.0073 * x + 7.8314E-004
R = 0.9999
DL = 0.04851 ppb
BEC = 0.1078 ppb

Weight: <None>
Min Conc: <None>

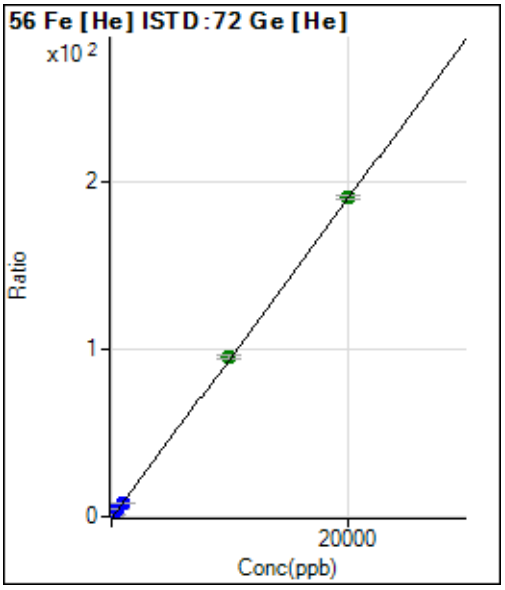
Calibration for 281_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	710261.39	0.6171	P	0.3	
2	☐	200.000	175.589	2664104.33	2.3137	P	1.1	-12.2
3	☐	500.000	506.291	6320397.20	5.5091	A	1.1	1.3
4	☐	1000.000	1017.583	11941497.32	10.4495	A	1.5	1.8
5	☐	10000.00	9862.675	109448335.0	95.9155	A	0.5	-1.4
6	☐	20000.00	20067.87	213000450.1	194.523	A	0.5	0.3
7	☐	100.000						

y = 0.0097 * x + 0.6171
R = 1.0000
DL = 0.5466 ppb
BEC = 63.86 ppb

Weight: <None>
Min Conc: <None>

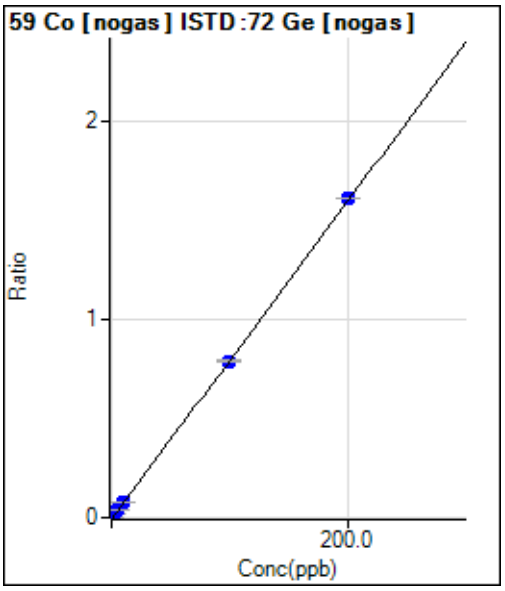


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	10557.19	0.0302	P	7.3	
2	☐	200.000	172.146	587421.97	1.6688	P	2.0	-13.9
3	☐	500.000	435.296	1476494.56	4.1736	P	0.5	-12.9
4	☐	1000.000	865.055	2918682.98	8.2642	P	0.4	-13.5
5	☐	10000.00	10011.03	33051394.51	95.3197	A	1.6	0.1
6	☐	20000.00	20003.12	63642944.05	190.428	A	0.7	0.0
7	☐	100.000						

y = 0.0095 * x + 0.0302
R = 1.0000
DL = 0.6957 ppb
BEC = 3.177 ppb

Weight: <None>
Min Conc: <None>

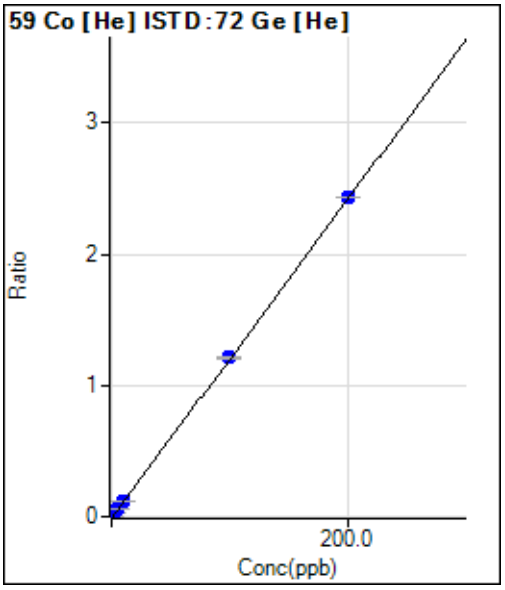
Calibration for 281_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	150.00	0.0001	P	17.7	
2	☐	2.000	1.924	17927.65	0.0156	P	2.7	-3.8
3	☐	5.000	4.984	46040.59	0.0401	P	1.6	-0.3
4	☐	10.000	9.969	91580.43	0.0801	P	0.9	-0.3
5	☐	100.000	98.474	901988.63	0.7905	P	1.8	-1.5
6	☐	200.000	200.766	1764515.70	1.6115	P	0.2	0.4
7	☐	1.000						

y = 0.0080 * x + 1.3033E-004
R = 1.0000
DL = 0.008639 ppb
BEC = 0.01624 ppb

Weight: <None>
Min Conc: <None>

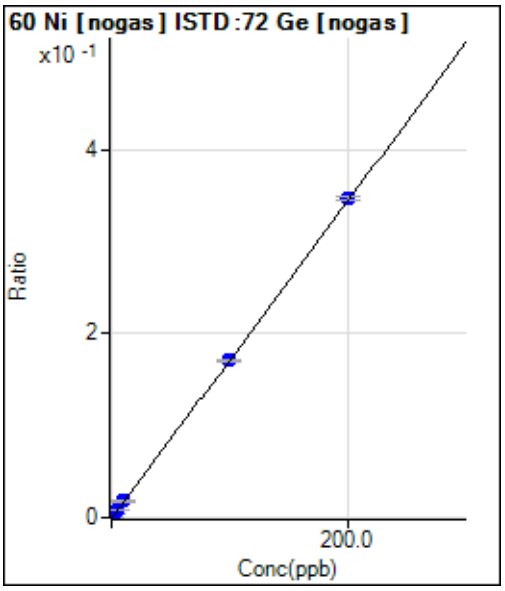


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	33.33	0.0001	P	16.1	
2	☐	2.000	1.973	8472.50	0.0241	P	2.8	-1.3
3	☐	5.000	4.959	21348.76	0.0603	P	1.9	-0.8
4	☐	10.000	9.870	42390.04	0.1200	P	0.9	-1.3
5	☐	100.000	99.612	419726.17	1.2104	P	0.6	-0.4
6	☐	200.000	200.202	813025.74	2.4327	P	0.6	0.1
7	☐	1.000						

y = 0.0122 * x + 9.5368E-005
R = 1.0000
DL = 0.003784 ppb
BEC = 0.007849 ppb

Weight: <None>
Min Conc: <None>

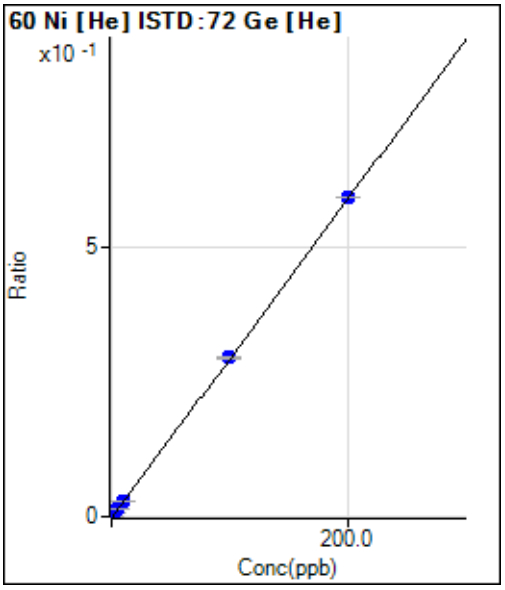
Calibration for 281_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	650.03	0.0006	P	10.9	
2	☐	2.000	1.884	4397.39	0.0038	P	0.8	-5.8
3	☐	5.000	4.887	10330.42	0.0090	P	2.8	-2.3
4	☐	10.000	9.976	20330.66	0.0178	P	1.2	-0.2
5	☐	100.000	98.598	194932.39	0.1708	P	1.5	-1.4
6	☐	200.000	200.706	380147.86	0.3472	P	1.0	0.4
7	☐	1.000						

y = 0.0017 * x + 5.6477E-004
R = 1.0000
DL = 0.1066 ppb
BEC = 0.327 ppb

Weight: <None>
Min Conc: <None>

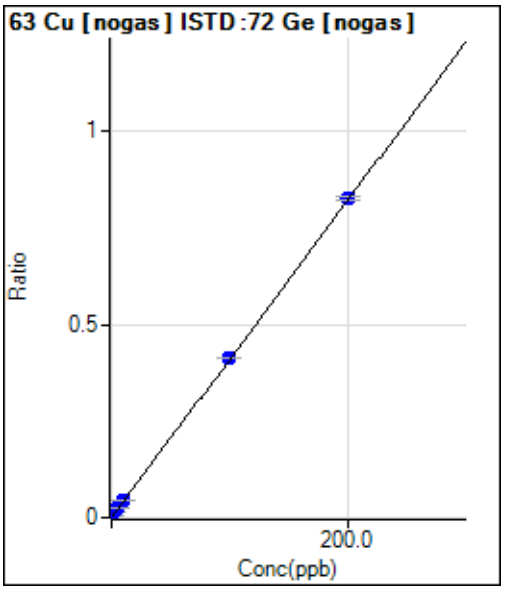


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	133.33	0.0004	P	57.9	
2	☐	2.000	1.948	2163.54	0.0061	P	6.6	-2.6
3	☐	5.000	4.898	5264.36	0.0149	P	0.9	-2.0
4	☐	10.000	9.966	10553.90	0.0299	P	1.0	-0.3
5	☐	100.000	99.705	102464.16	0.2955	P	1.8	-0.3
6	☐	200.000	200.152	198137.89	0.5928	P	0.3	0.1
7	☐	1.000						

y = 0.0030 * x + 3.8369E-004
R = 1.0000
DL = 0.2253 ppb
BEC = 0.1296 ppb

Weight: <None>
Min Conc: <None>

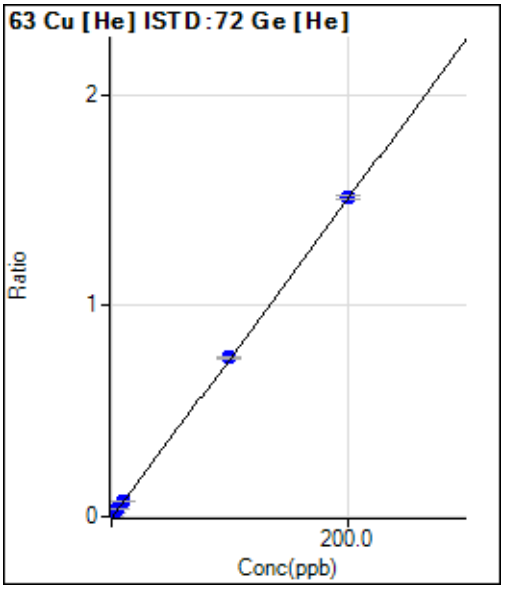
Calibration for 281_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5237.68	0.0046	P	2.6	
2	☐	2.000	1.990	14657.44	0.0127	P	3.5	-0.5
3	☐	5.000	5.017	28874.75	0.0252	P	1.3	0.3
4	☐	10.000	10.205	53124.29	0.0465	P	2.4	2.0
5	☐	100.000	99.457	471579.50	0.4133	P	0.3	-0.5
6	☐	200.000	200.261	906167.72	0.8275	P	1.2	0.1
7	☐	1.000						

y = 0.0041 * x + 0.0046
R = 1.0000
DL = 0.08685 ppb
BEC = 1.107 ppb

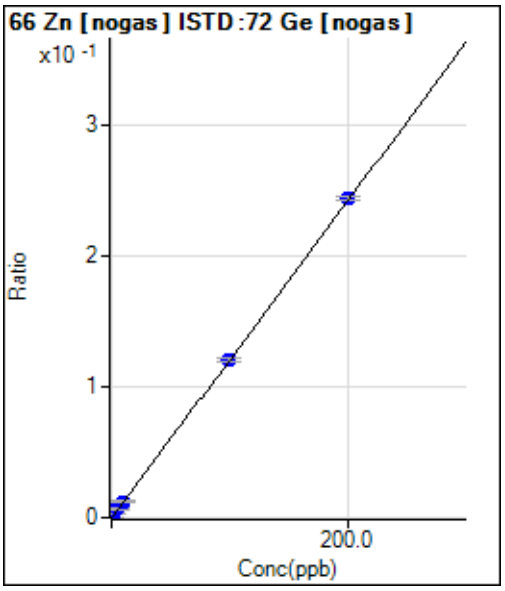
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	250.01	0.0007	P	24.7	
2	☐	2.000	2.066	5754.54	0.0163	P	3.4	3.3
3	☐	5.000	4.962	13536.31	0.0383	P	2.7	-0.8
4	☐	10.000	10.042	27088.11	0.0767	P	2.3	0.4
5	☐	100.000	99.669	261754.29	0.7549	P	0.8	-0.3
6	☐	200.000	200.164	506404.75	1.5153	P	1.3	0.1
7	☐	1.000						

y = 0.0076 * x + 7.1725E-004
R = 1.0000
DL = 0.07037 ppb
BEC = 0.09479 ppb

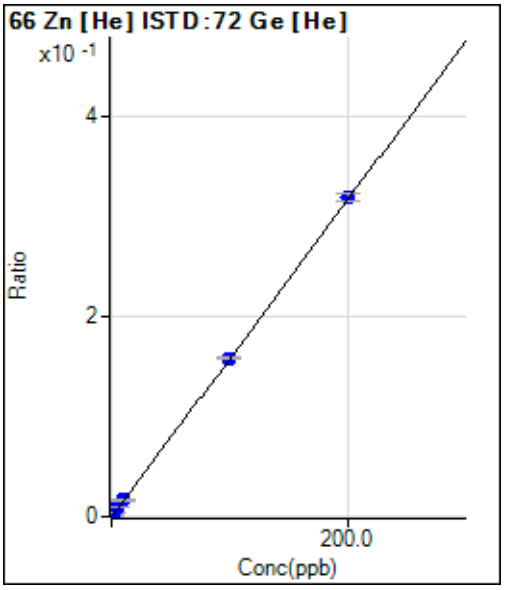
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	780.04	0.0007	P	2.5	
2	☐	2.000	2.025	3603.84	0.0031	P	6.0	1.2
3	☐	5.000	4.895	7578.67	0.0066	P	4.8	-2.1
4	☐	10.000	9.729	14240.29	0.0125	P	1.6	-2.7
5	☐	100.000	98.812	137347.81	0.1204	P	1.5	-1.2
6	☐	200.000	200.610	266831.64	0.2437	P	1.3	0.3
7	☐	1.000						

y = 0.0012 * x + 6.7767E-004
R = 1.0000
DL = 0.04137 ppb
BEC = 0.5595 ppb

Weight: <None>
Min Conc: <None>

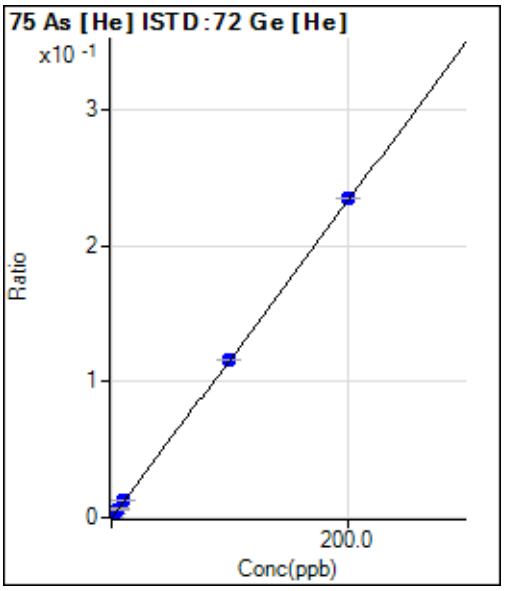


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	343.35	0.0010	P	22.3	
2	☐	2.000	1.895	1406.76	0.0040	P	3.9	-5.3
3	☐	5.000	5.153	3247.08	0.0092	P	2.4	3.1
4	☐	10.000	9.705	5797.90	0.0164	P	5.1	-3.0
5	☐	100.000	99.104	54994.45	0.1586	P	1.3	-0.9
6	☐	200.000	200.460	106875.57	0.3198	P	1.9	0.2
7	☐	1.000						

y = 0.0016 * x + 9.8185E-004
R = 1.0000
DL = 0.4136 ppb
BEC = 0.6173 ppb

Weight: <None>
Min Conc: <None>

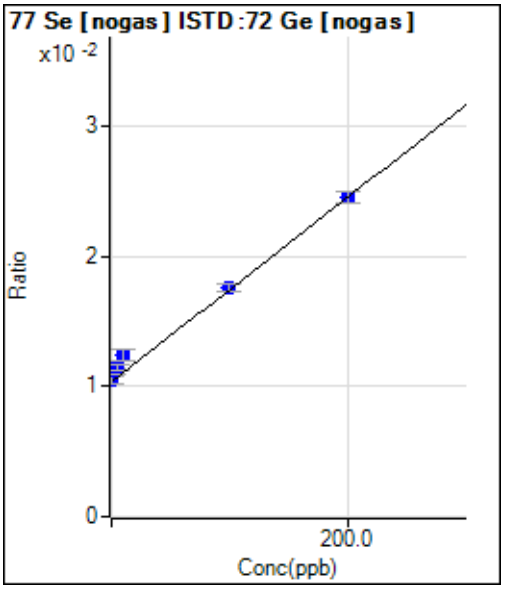
Calibration for 281_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	215.56	0.0006	P	9.4	
2	☐	2.000	2.068	1068.93	0.0030	P	3.1	3.4
3	☐	5.000	4.893	2243.52	0.0063	P	1.4	-2.1
4	☐	10.000	9.982	4342.87	0.0123	P	0.5	-0.2
5	☐	100.000	98.592	40211.85	0.1160	P	0.2	-1.4
6	☐	200.000	200.707	78686.32	0.2354	P	0.2	0.4
7	☐	1.000						

y = 0.0012 * x + 6.1787E-004
R = 1.0000
DL = 0.1492 ppb
BEC = 0.5281 ppb

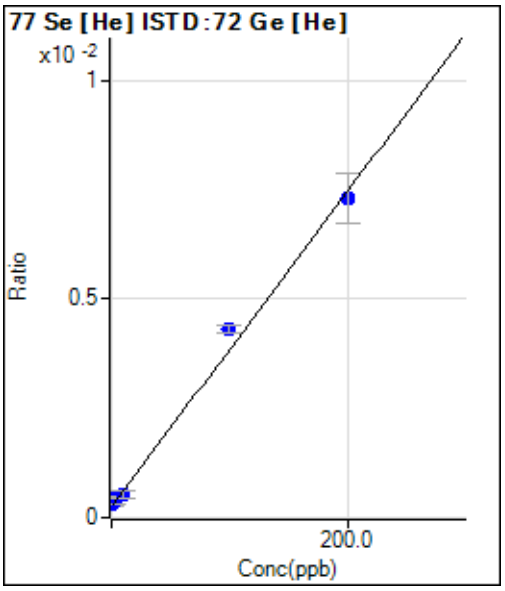
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	12078.43	0.0105	P	5.9	
2	☐	2.000	9.740	12879.11	0.0112	P	4.6	387.0
3	☐	5.000	14.308	13202.73	0.0115	P	4.5	186.2
4	☐	10.000	27.082	14190.31	0.0124	P	7.0	170.8
5	☐	100.000	100.479	20107.26	0.0176	P	3.4	0.5
6	☐	200.000	198.596	26921.43	0.0246	P	4.1	-0.7
7	☐	1.000						

y = 7.0932E-005 * x + 0.0105
R = 0.9973
DL = 26.4 ppb
BEC = 147.9 ppb

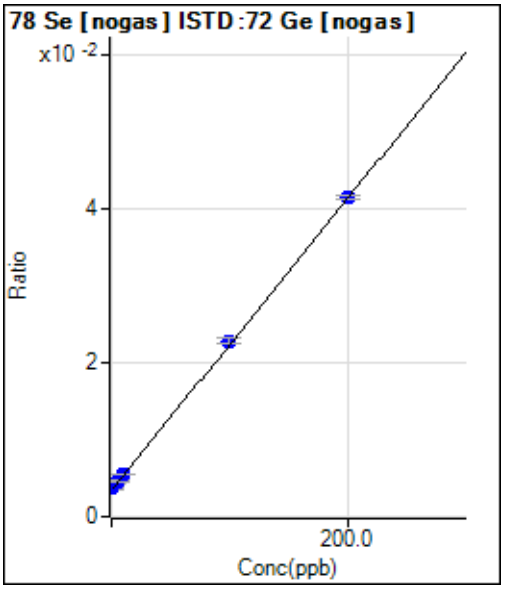
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	100.00	0.0003	P	25.6	
2	☐	2.000	2.338	130.00	0.0004	P	41.9	16.9
3	☐	5.000	5.132	166.67	0.0005	P	12.6	2.6
4	☐	10.000	6.725	186.67	0.0005	P	27.1	-32.8
5	☐	100.000	111.455	1493.44	0.0043	P	3.8	11.5
6	☐	200.000	194.430	2440.26	0.0073	P	15.7	-2.8
7	☐	1.000						

y = 3.6080E-005 * x + 2.8601E-004
R = 0.9974
DL = 6.097 ppb
BEC = 7.927 ppb

Weight: <None>
Min Conc: <None>

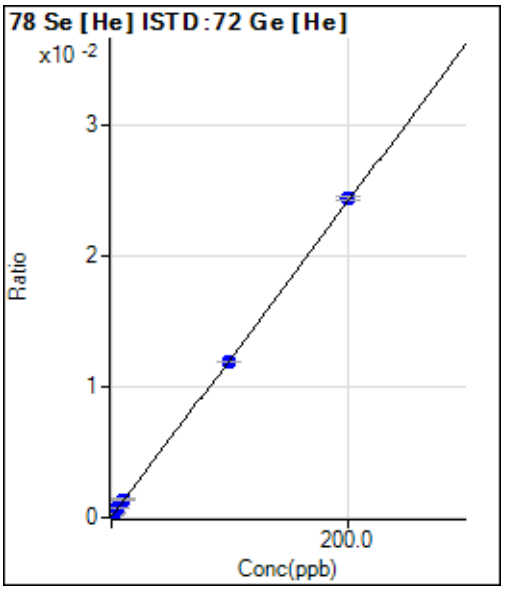


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4193.99	0.0036	P	6.7	
2	☐	2.000	3.443	4947.59	0.0043	P	1.8	72.2
3	☐	5.000	4.924	5251.02	0.0046	P	6.2	-1.5
4	☐	10.000	9.888	6304.77	0.0055	P	2.4	-1.1
5	☐	100.000	100.920	25983.09	0.0228	P	3.2	0.9
6	☐	200.000	199.533	45399.83	0.0415	P	1.0	-0.2
7	☐	1.000						

y = 1.8952E-004 * x + 0.0036
R = 1.0000
DL = 3.857 ppb
BEC = 19.23 ppb

Weight: <None>
Min Conc: <None>

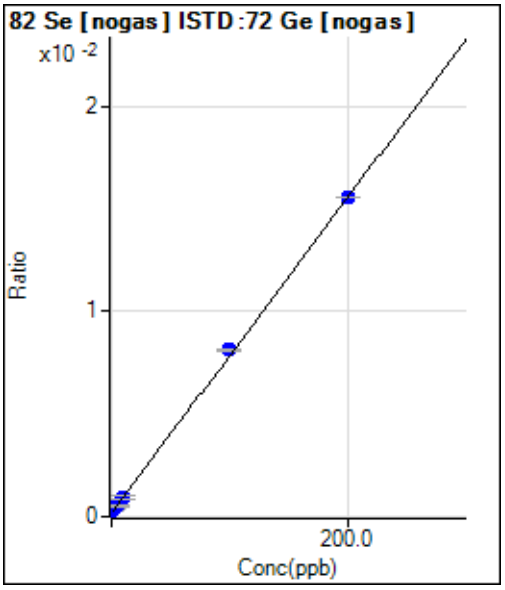
Calibration for 281_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	60.00	0.0002	P	25.7	
2	☐	2.000	1.524	125.33	0.0004	P	12.3	-23.8
3	☐	5.000	4.962	272.67	0.0008	P	4.8	-0.8
4	☐	10.000	10.106	491.34	0.0014	P	9.5	1.1
5	☐	100.000	97.696	4146.59	0.0120	P	0.2	-2.3
6	☐	200.000	201.152	8167.59	0.0244	P	1.3	0.6
7	☐	1.000						

y = 1.2064E-004 * x + 1.7200E-004
R = 0.9999
DL = 1.1 ppb
BEC = 1.426 ppb

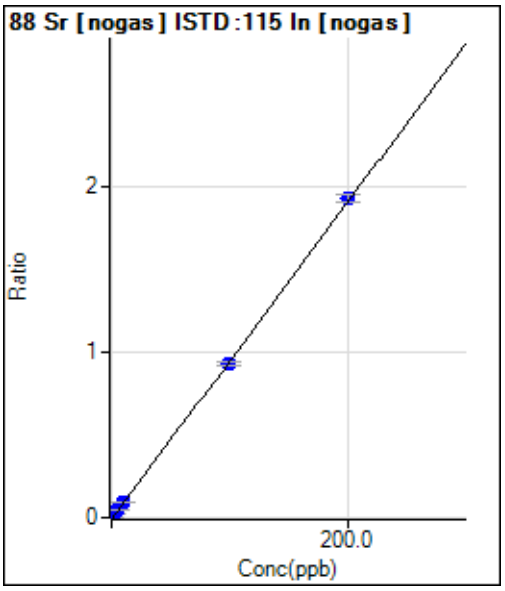
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	296.68	0.0003	P	10.9	
2	☐	2.000	1.917	466.68	0.0004	P	16.4	-4.1
3	☐	5.000	3.375	593.36	0.0005	P	27.0	-32.5
4	☐	10.000	9.048	1090.07	0.0010	P	16.3	-9.5
5	☐	100.000	102.134	9256.37	0.0081	P	0.9	2.1
6	☐	200.000	199.022	17040.02	0.0156	P	0.0	-0.5
7	☐	1.000						

y = 7.6898E-005 * x + 2.5776E-004
R = 0.9999
DL = 1.096 ppb
BEC = 3.352 ppb

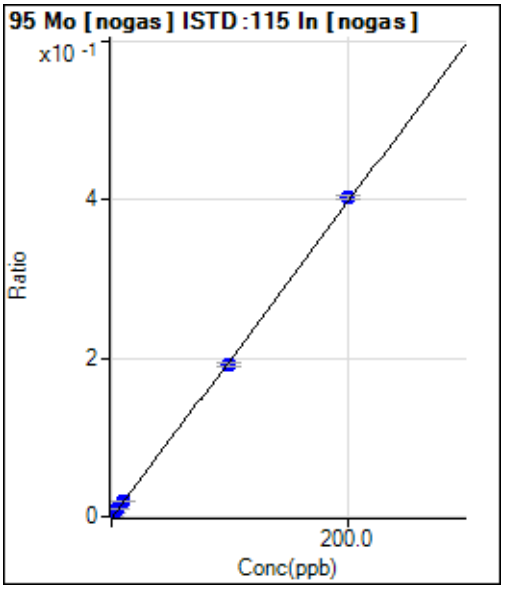
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	636.70	0.0004	P	30.4	
2	☐	2.000	1.870	27890.01	0.0183	P	2.8	-6.5
3	☐	5.000	4.608	67497.10	0.0445	P	2.7	-7.8
4	☐	10.000	9.538	137966.89	0.0916	P	2.1	-4.6
5	☐	100.000	97.290	1369838.21	0.9305	P	2.7	-2.7
6	☐	200.000	201.389	2701019.13	1.9257	P	1.9	0.7
7	☐	1.000						

y = 0.0096 * x + 4.2596E-004
R = 0.9999
DL = 0.04057 ppb
BEC = 0.04456 ppb

Weight: <None>
Min Conc: <None>

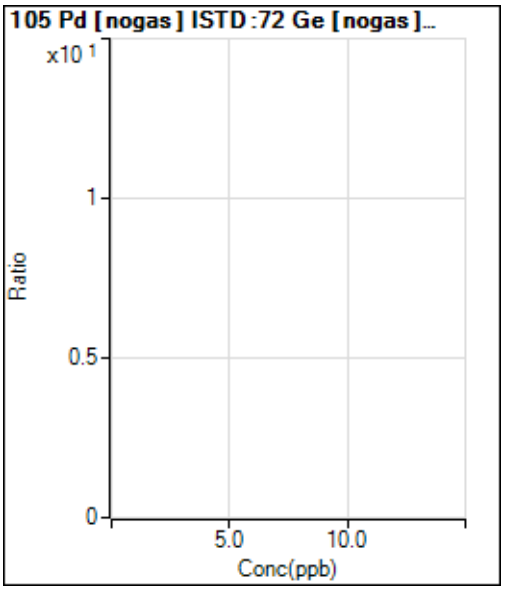


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	180.01	0.0001	P	9.7	
2	☐	2.000	1.810	5681.20	0.0037	P	3.2	-9.5
3	☐	5.000	4.514	13836.77	0.0091	P	3.4	-9.7
4	☐	10.000	9.393	28374.40	0.0188	P	3.0	-6.1
5	☐	100.000	96.070	282018.52	0.1916	P	3.5	-3.9
6	☐	200.000	202.010	564867.17	0.4027	P	1.6	1.0
7	☐	1.000						

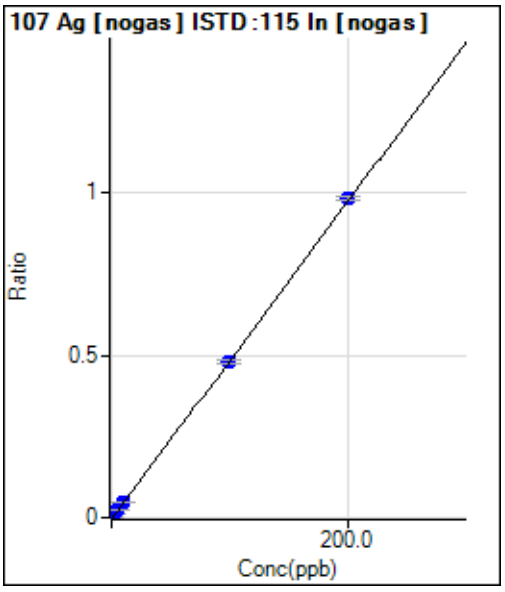
y = 0.0020 * x + 1.1996E-004
R = 0.9997
DL = 0.01746 ppb
BEC = 0.06019 ppb

Weight: <None>
Min Conc: <None>

Calibration for 281_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000						
2	☐	2.000						
3	☐	5.000						
4	☐	10.000						
5	☐	100.000						
6	☐	200.000						
7	☐	1.000						



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	76.67	0.0001	P	85.6	
2	☐	2.000	1.876	14077.07	0.0092	P	5.6	-6.2
3	☐	5.000	4.663	34728.51	0.0229	P	3.4	-6.7
4	☐	10.000	9.770	72138.11	0.0479	P	1.6	-2.3
5	☐	100.000	97.938	706187.18	0.4797	P	2.4	-2.1
6	☐	200.000	201.052	1381130.24	0.9847	P	1.8	0.5
7	☐	1.000						

y = 0.0049 * x + 5.0707E-005

R = 0.9999

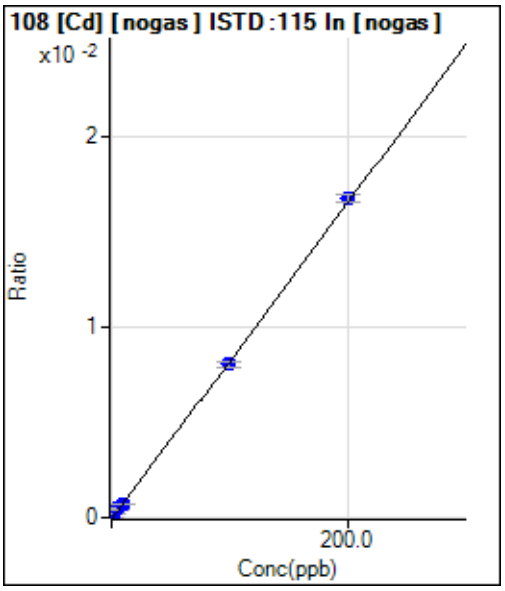
DL = 0.0266 ppb

BEC = 0.01035 ppb

Weight: <None>

Min Conc: <None>

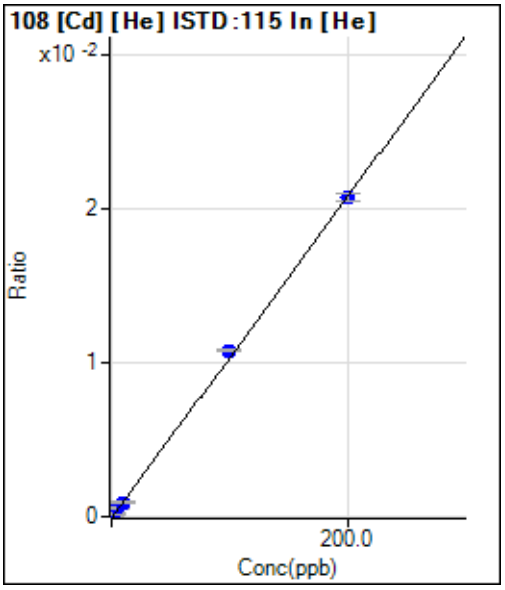
Calibration for 281_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3.33	0.0000	P	173.2	
2	☐	2.000	2.106	270.01	0.0002	P	16.6	5.3
3	☐	5.000	5.495	696.70	0.0005	P	9.8	9.9
4	☐	10.000	8.559	1073.39	0.0007	P	7.0	-14.4
5	☐	100.000	96.669	11815.02	0.0080	P	4.8	-3.3
6	☐	200.000	201.724	23489.27	0.0167	P	2.0	0.9
7	☐	1.000						

y = 8.3011E-005 * x + 2.2511E-006
R = 0.9998
DL = 0.1409 ppb
BEC = 0.02712 ppb

Weight: <None>
Min Conc: <None>

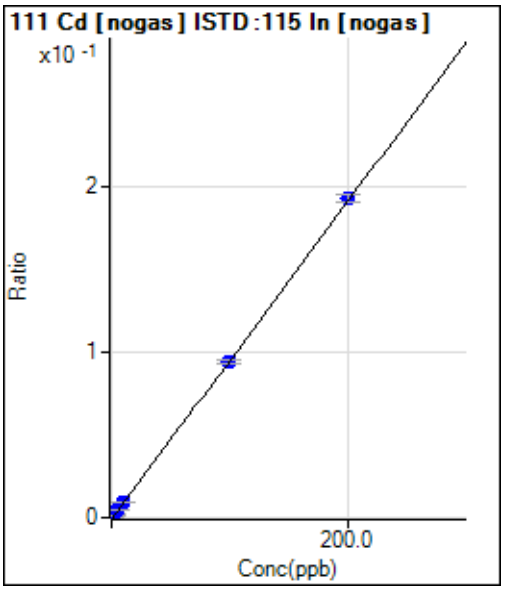


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6.67	0.0000	P	173.2	
2	☐	2.000	1.498	96.67	0.0002	P	41.7	-25.1
3	☐	5.000	5.340	330.01	0.0006	P	24.0	6.8
4	☐	10.000	8.805	536.69	0.0009	P	10.8	-11.9
5	☐	100.000	103.217	6071.39	0.0108	P	2.0	3.2
6	☐	200.000	198.448	11191.14	0.0208	P	2.2	-0.8
7	☐	1.000						

y = 1.0463E-004 * x + 1.1778E-005
R = 0.9998
DL = 0.5849 ppb
BEC = 0.1126 ppb

Weight: <None>
Min Conc: <None>

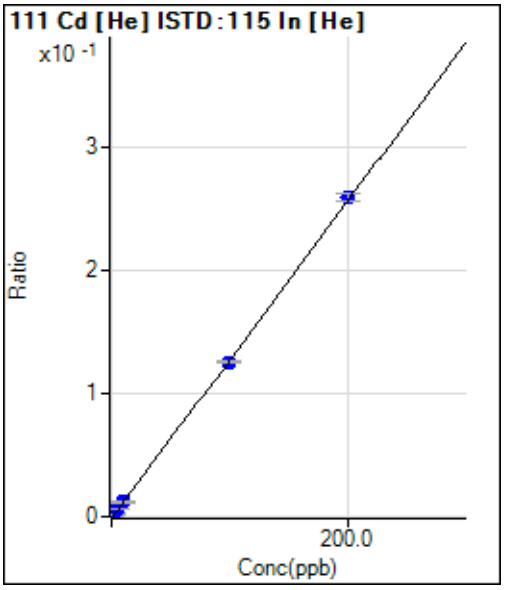
Calibration for 281_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16.42	0.0000	P	156.5	
2	☐	2.000	1.839	2710.65	0.0018	P	7.6	-8.0
3	☐	5.000	4.581	6697.83	0.0044	P	7.7	-8.4
4	☐	10.000	9.383	13605.97	0.0090	P	3.2	-6.2
5	☐	100.000	98.107	138903.55	0.0943	P	2.1	-1.9
6	☐	200.000	200.990	271097.09	0.1933	P	2.4	0.5
7	☐	1.000						

y = 9.6158E-004 * x + 1.0799E-005
R = 0.9999
DL = 0.05271 ppb
BEC = 0.01123 ppb

Weight: <None>
Min Conc: <None>

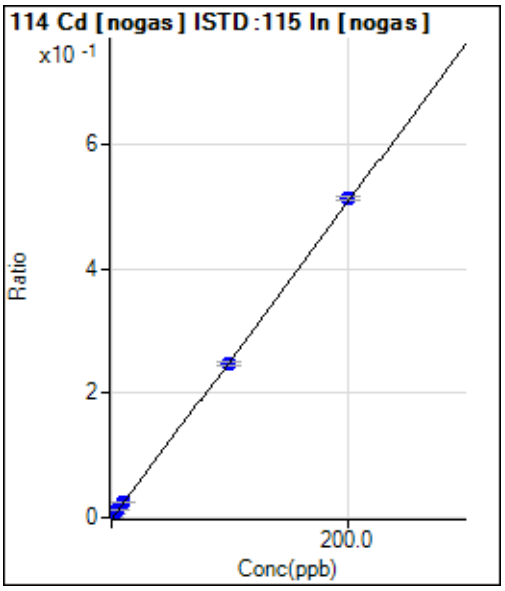


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	9.51	0.0000	P	98.0	
2	☐	2.000	1.922	1429.72	0.0025	P	19.8	-3.9
3	☐	5.000	4.736	3536.49	0.0061	P	4.7	-5.3
4	☐	10.000	9.210	6839.49	0.0119	P	5.1	-7.9
5	☐	100.000	97.523	70620.09	0.1258	P	1.1	-2.5
6	☐	200.000	201.286	139815.45	0.2595	P	2.0	0.6
7	☐	1.000						

y = 0.0013 * x + 1.6716E-005
R = 0.9999
DL = 0.03813 ppb
BEC = 0.01296 ppb

Weight: <None>
Min Conc: <None>

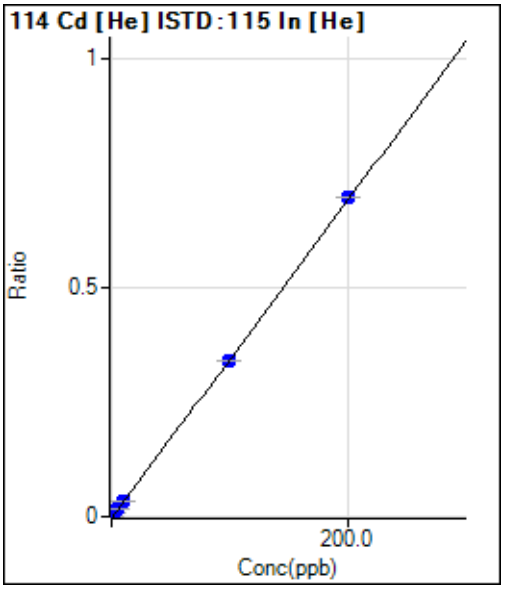
Calibration for 281_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	53.33	0.0000	P	21.4	
2	☐	2.000	1.896	7428.70	0.0049	P	4.3	-5.2
3	☐	5.000	4.729	18375.20	0.0121	P	2.5	-5.4
4	☐	10.000	9.543	36743.53	0.0244	P	3.2	-4.6
5	☐	100.000	97.056	364759.54	0.2478	P	3.2	-2.9
6	☐	200.000	201.503	721487.93	0.5144	P	1.7	0.8
7	☐	1.000						

y = 0.0026 * x + 3.5562E-005
R = 0.9999
DL = 0.008942 ppb
BEC = 0.01393 ppb

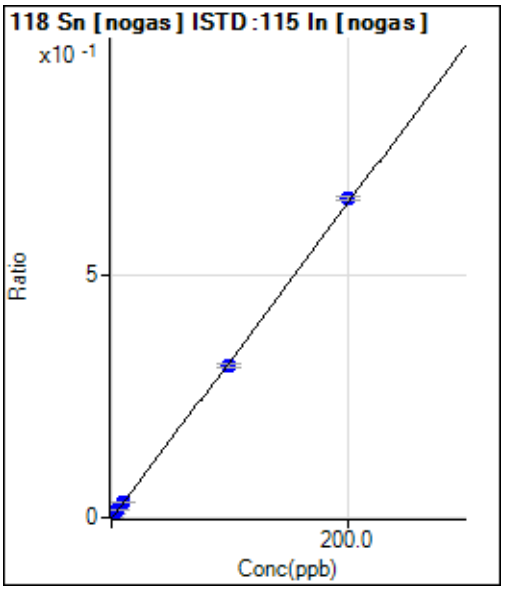
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	33.33	0.0001	P	75.9	
2	☐	2.000	1.981	3973.95	0.0069	P	3.7	-0.9
3	☐	5.000	4.857	9766.80	0.0169	P	1.6	-2.9
4	☐	10.000	9.384	18759.07	0.0326	P	2.4	-6.2
5	☐	100.000	98.254	191443.86	0.3409	P	0.2	-1.7
6	☐	200.000	200.907	375473.99	0.6970	P	0.2	0.5
7	☐	1.000						

y = 0.0035 * x + 5.8754E-005
R = 0.9999
DL = 0.03856 ppb
BEC = 0.01694 ppb

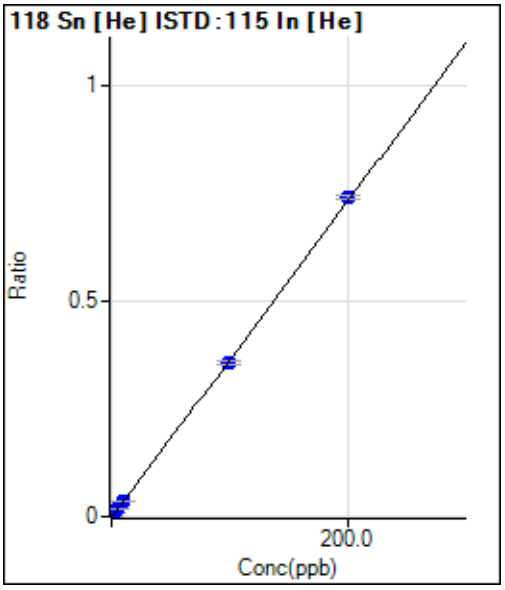
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1156.73	0.0008	P	13.3	
2	☐	2.000	1.794	10050.37	0.0066	P	4.1	-10.3
3	☐	5.000	4.540	23526.12	0.0155	P	4.2	-9.2
4	☐	10.000	9.463	47411.46	0.0315	P	2.8	-5.4
5	☐	100.000	95.816	458877.97	0.3117	P	2.2	-4.2
6	☐	200.000	202.133	921032.54	0.6567	P	1.3	1.1
7	☐	1.000						

y = 0.0032 * x + 7.7262E-004
R = 0.9997
DL = 0.09511 ppb
BEC = 0.2381 ppb

Weight: <None>
Min Conc: <None>

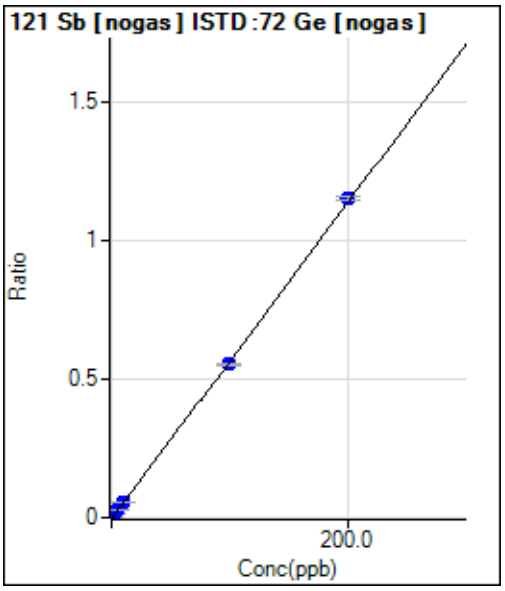


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	533.35	0.0009	P	11.4	
2	☐	2.000	1.738	4190.69	0.0073	P	5.3	-13.1
3	☐	5.000	4.721	10543.98	0.0183	P	1.5	-5.6
4	☐	10.000	9.495	20568.30	0.0358	P	4.0	-5.0
5	☐	100.000	97.124	200553.16	0.3572	P	1.7	-2.9
6	☐	200.000	201.473	398556.23	0.7399	P	0.9	0.7
7	☐	1.000						

y = 0.0037 * x + 9.3718E-004
R = 0.9999
DL = 0.08771 ppb
BEC = 0.2555 ppb

Weight: <None>
Min Conc: <None>

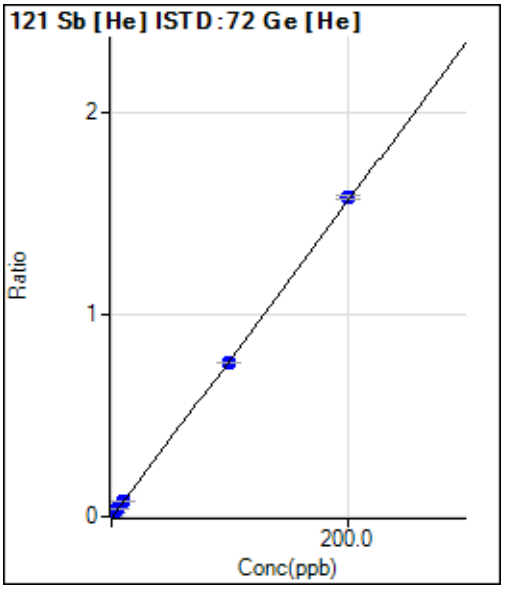
Calibration for 281_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1000.06	0.0009	P	7.9	
2	☐	2.000	1.836	13082.79	0.0114	P	0.0	-8.2
3	☐	5.000	4.690	31751.92	0.0277	P	3.0	-6.2
4	☐	10.000	9.618	63814.33	0.0558	P	1.8	-3.8
5	☐	100.000	96.609	631096.02	0.5531	P	1.1	-3.4
6	☐	200.000	201.724	1263527.14	1.1539	P	0.9	0.9
7	☐	1.000						

y = 0.0057 * x + 8.6887E-004
R = 0.9998
DL = 0.03606 ppb
BEC = 0.152 ppb

Weight: <None>
Min Conc: <None>

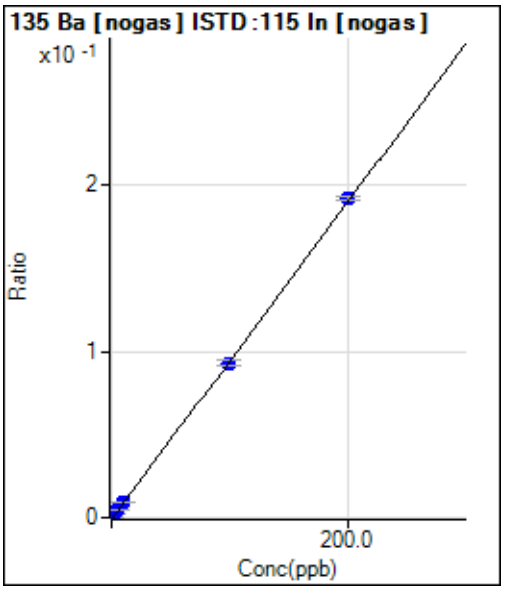


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	426.68	0.0012	P	20.1	
2	☐	2.000	1.795	5391.09	0.0153	P	5.4	-10.3
3	☐	5.000	4.651	13346.39	0.0377	P	2.9	-7.0
4	☐	10.000	9.265	26113.90	0.0739	P	2.0	-7.4
5	☐	100.000	96.972	264345.21	0.7624	P	0.9	-3.0
6	☐	200.000	201.561	529136.42	1.5833	P	1.1	0.8
7	☐	1.000						

y = 0.0078 * x + 0.0012
R = 0.9998
DL = 0.0941 ppb
BEC = 0.1559 ppb

Weight: <None>
Min Conc: <None>

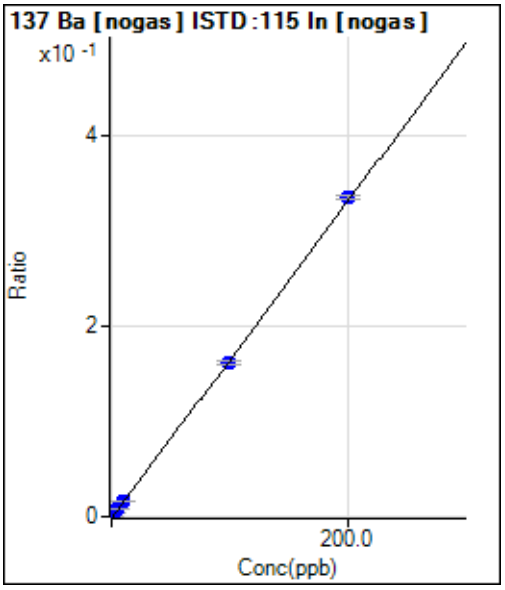
Calibration for 281_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	40.00	0.0000	P	44.5	
2	☐	2.000	1.856	2736.97	0.0018	P	3.9	-7.2
3	☐	5.000	4.520	6578.31	0.0043	P	4.2	-9.6
4	☐	10.000	9.446	13600.05	0.0090	P	2.8	-5.5
5	☐	100.000	97.408	136711.79	0.0929	P	3.8	-2.6
6	☐	200.000	201.337	269209.00	0.1919	P	0.7	0.7
7	☐	1.000						

y = 9.5318E-004 * x + 2.6767E-005
R = 0.9999
DL = 0.03749 ppb
BEC = 0.02808 ppb

Weight: <None>
Min Conc: <None>

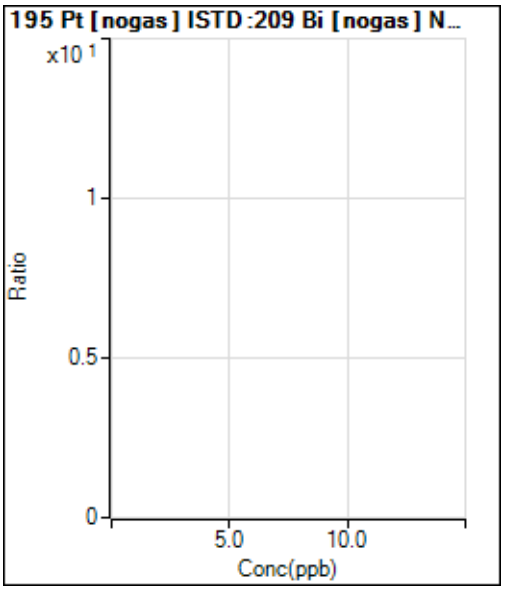


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	63.33	0.0000	P	18.0	
2	☐	2.000	1.952	5000.95	0.0033	P	4.3	-2.4
3	☐	5.000	4.585	11614.93	0.0077	P	0.1	-8.3
4	☐	10.000	9.627	24127.37	0.0160	P	1.1	-3.7
5	☐	100.000	96.935	236890.83	0.1609	P	2.7	-3.1
6	☐	200.000	201.562	469248.78	0.3346	P	1.4	0.8
7	☐	1.000						

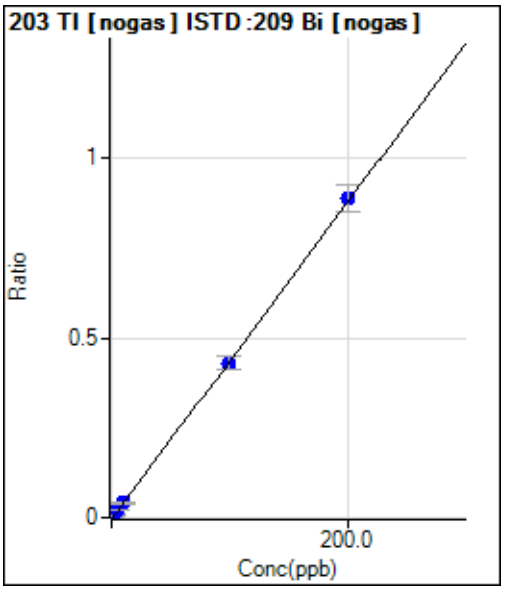
y = 0.0017 * x + 4.2233E-005
R = 0.9998
DL = 0.01372 ppb
BEC = 0.02545 ppb

Weight: <None>
Min Conc: <None>

Calibration for 281_ICV.d



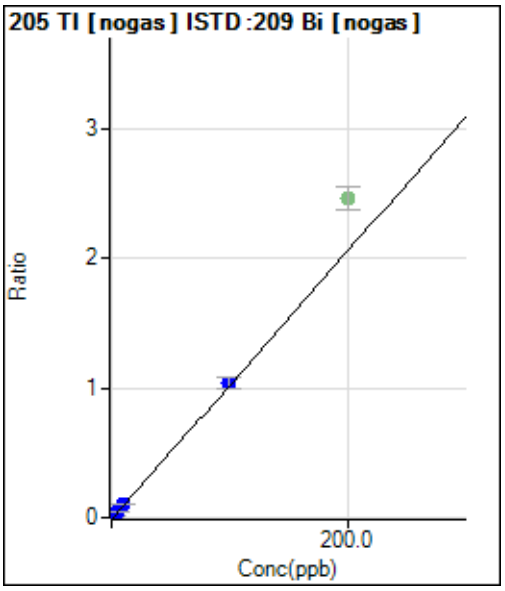
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000						
2	☐	2.000						
3	☐	5.000						
4	☐	10.000						
5	☐	100.000						
6	☐	200.000						
7	☐	1.000						



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	146.67	0.0001	P	42.6	
2	☐	2.000	1.859	13380.03	0.0083	P	11.7	-7.0
3	☐	5.000	4.600	33167.17	0.0204	P	7.8	-8.0
4	☐	10.000	9.388	67650.53	0.0415	P	7.0	-6.1
5	☐	100.000	97.446	682989.31	0.4298	P	8.3	-2.6
6	☐	200.000	201.319	1351671.07	0.8878	P	8.1	0.7
7	☐	1.000						

y = 0.0044 * x + 9.3054E-005
R = 0.9999
DL = 0.02698 ppb
BEC = 0.0211 ppb

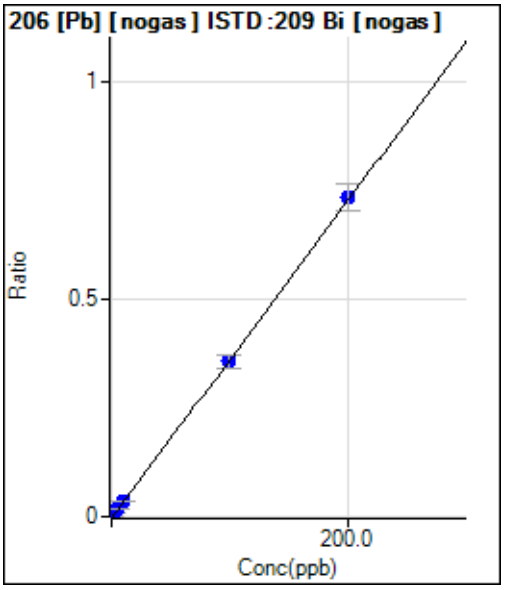
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	336.68	0.0002	P	21.1	
2	☐	2.000	1.858	31399.88	0.0194	P	9.8	-7.1
3	☐	5.000	4.701	79527.77	0.0489	P	7.8	-6.0
4	☐	10.000	9.684	163685.62	0.1004	P	7.7	-3.2
5	☐	100.000	100.049	1646063.93	1.0355	P	7.8	0.0
6	☑	200.000		3751804.22	2.4631	A	7.1	
7	☐	1.000						

y = 0.0103 * x + 2.1084E-004
R = 1.0000
DL = 0.0129 ppb
BEC = 0.02038 ppb

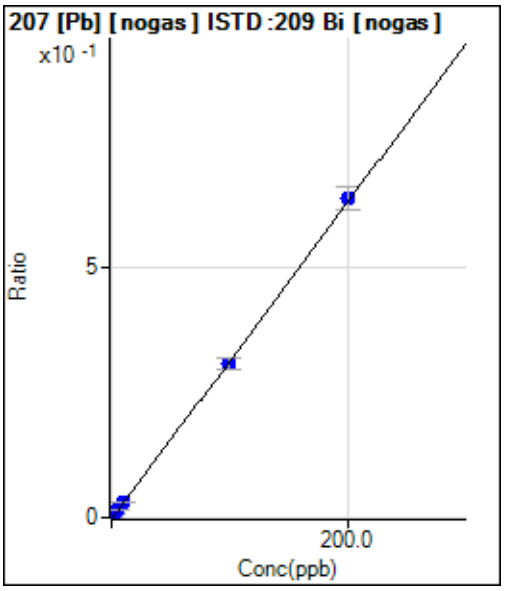
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	240.01	0.0002	P	30.8	
2	☐	2.000	1.929	11638.45	0.0072	P	10.9	-3.6
3	☐	5.000	4.702	28212.83	0.0174	P	10.4	-6.0
4	☐	10.000	9.516	56972.31	0.0350	P	8.8	-4.8
5	☐	100.000	97.796	568978.25	0.3580	P	8.0	-2.2
6	☐	200.000	201.134	1120583.65	0.7360	P	8.4	0.6
7	☐	1.000						

y = 0.0037 * x + 1.5138E-004
R = 0.9999
DL = 0.03818 ppb
BEC = 0.04138 ppb

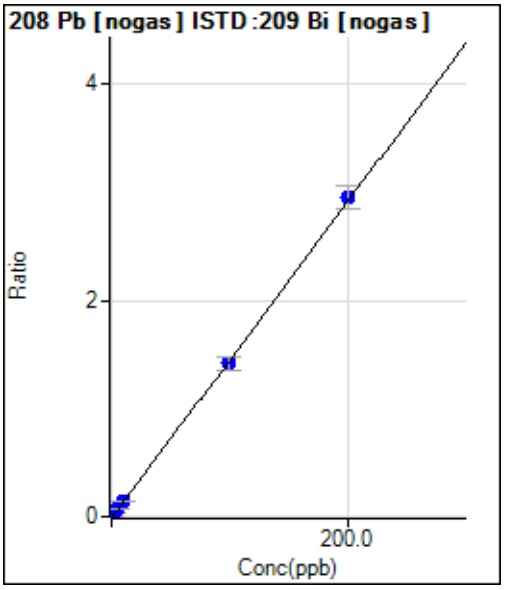
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	156.67	0.0001	P	19.0	
2	☐	2.000	1.976	10277.38	0.0064	P	10.9	-1.2
3	☐	5.000	4.581	23811.08	0.0146	P	7.9	-8.4
4	☐	10.000	9.584	49747.44	0.0305	P	6.1	-4.2
5	☐	100.000	97.168	489975.70	0.3083	P	8.2	-2.8
6	☐	200.000	201.448	973346.00	0.6390	P	7.1	0.7
7	☐	1.000						

y = 0.0032 * x + 9.8199E-005
R = 0.9999
DL = 0.01769 ppb
BEC = 0.03096 ppb

Weight: <None>
Min Conc: <None>

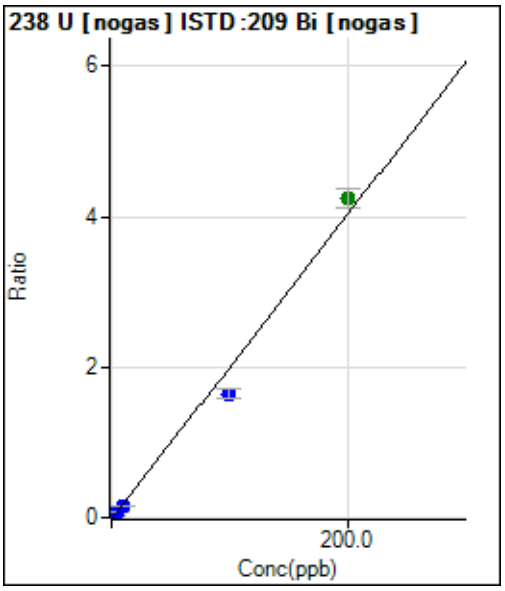


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	820.02	0.0005	P	22.0	
2	☐	2.000	1.904	45943.93	0.0284	P	8.1	-4.8
3	☐	5.000	4.656	111825.26	0.0688	P	9.5	-6.9
4	☐	10.000	9.509	227979.32	0.1399	P	7.8	-4.9
5	☐	100.000	96.818	2255967.21	1.4194	P	8.2	-3.2
6	☐	200.000	201.625	4500861.39	2.9554	P	7.5	0.8
7	☐	1.000						

y = 0.0147 * x + 5.1553E-004
R = 0.9998
DL = 0.02319 ppb
BEC = 0.03518 ppb

Weight: <None>
Min Conc: <None>

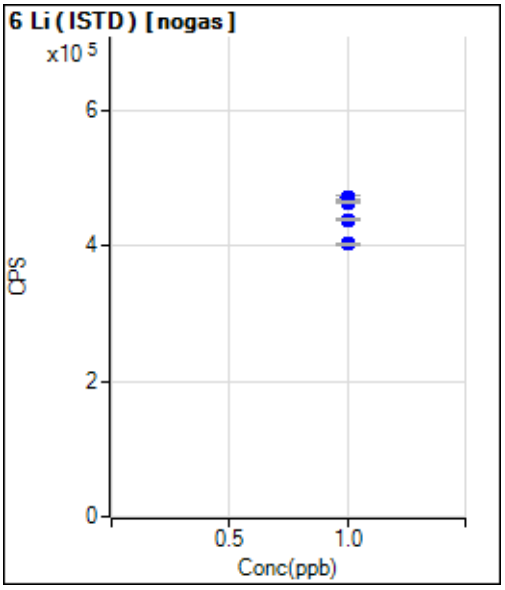
Calibration for 281_ICV.d



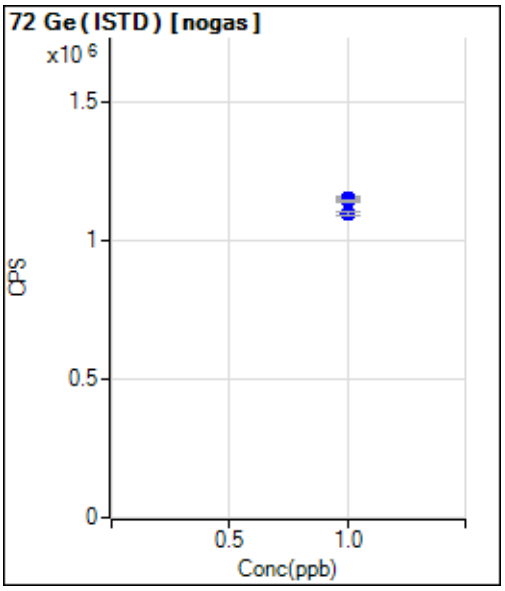
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	260.01	0.0002	P	14.6	
2	☐	2.000	1.520	50000.32	0.0309	P	9.7	-24.0
3	☐	5.000	3.843	126914.62	0.0780	P	9.2	-23.1
4	☐	10.000	7.839	259190.43	0.1590	P	7.2	-21.6
5	☐	100.000	81.321	2618237.67	1.6476	P	8.5	-18.7
6	☐	200.000	209.481	6465310.11	4.2439	A	6.6	4.7
7	☐	1.000						

y = 0.0203 * x + 1.6193E-004
R = 0.9943
DL = 0.003499 ppb
BEC = 0.007993 ppb

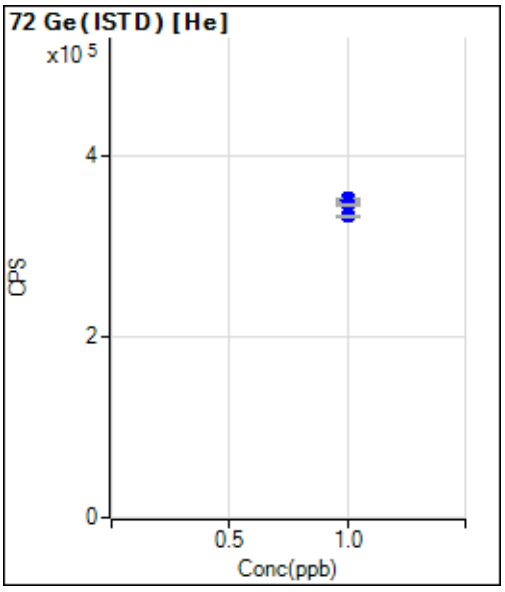
Weight: <None>
Min Conc: <None>



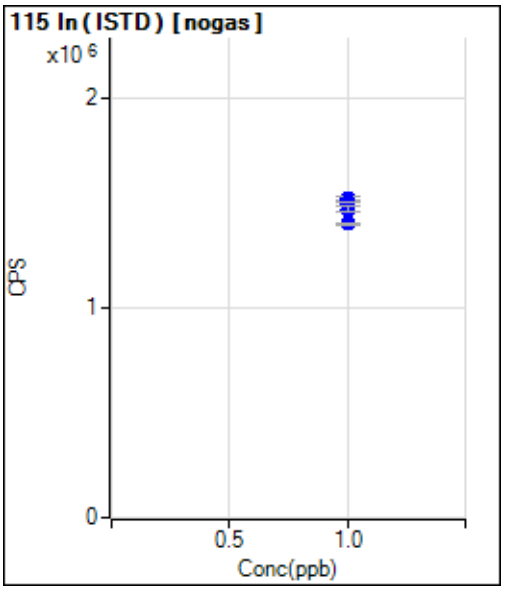
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		471871.67		P	0.7	
2	☐	1.000		468628.13		P	0.1	
3	☐	1.000		465486.62		P	0.3	
4	☐	1.000		464518.29		P	0.4	
5	☐	1.000		438598.73		P	0.7	
6	☐	1.000		402738.17		P	0.4	
7	☐	1.000						



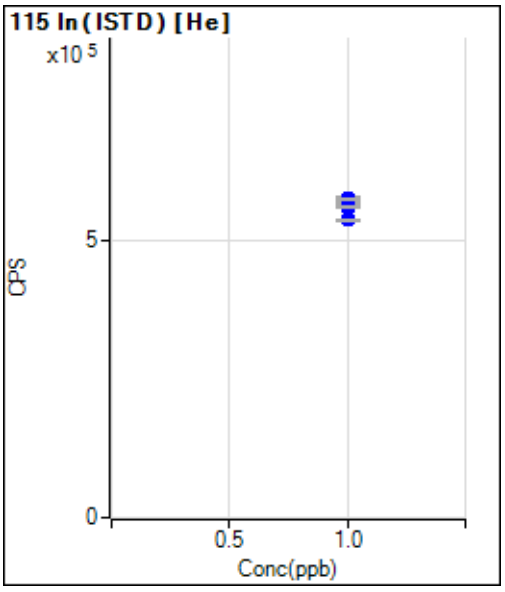
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1151041.15		P	0.1	
2	☐	1.000		1151467.82		P	0.7	
3	☐	1.000		1147285.45		P	0.3	
4	☐	1.000		1142723.45		P	0.5	
5	☐	1.000		1141102.61		P	0.3	
6	☐	1.000		1094962.62		P	0.9	
7	☐	1.000						



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		349089.11		P	1.2	
2	☐	1.000		352051.02		P	1.1	
3	☐	1.000		353769.89		P	0.4	
4	☐	1.000		353171.14		P	0.1	
5	☐	1.000		346760.40		P	0.7	
6	☐	1.000		334221.70		P	0.8	
7	☐	1.000						

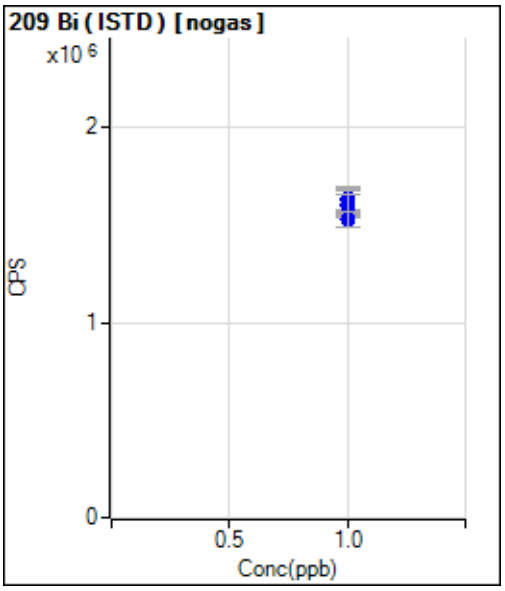


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1499153.42		P	1.5	
2	☐	1.000		1524051.51		P	1.0	
3	☐	1.000		1518116.03		P	1.9	
4	☐	1.000		1506184.34		P	0.5	
5	☐	1.000		1472559.96		P	1.6	
6	☐	1.000		1402555.58		P	0.9	
7	☐	1.000						



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		569466.25		P	0.8	
2	☐	1.000		573311.39		P	0.3	
3	☐	1.000		577639.78		P	1.0	
4	☐	1.000		575170.07		P	0.3	
5	☐	1.000		561554.98		P	0.6	
6	☐	1.000		538674.23		P	0.4	
7	☐	1.000						

Calibration for 281_ICV.d

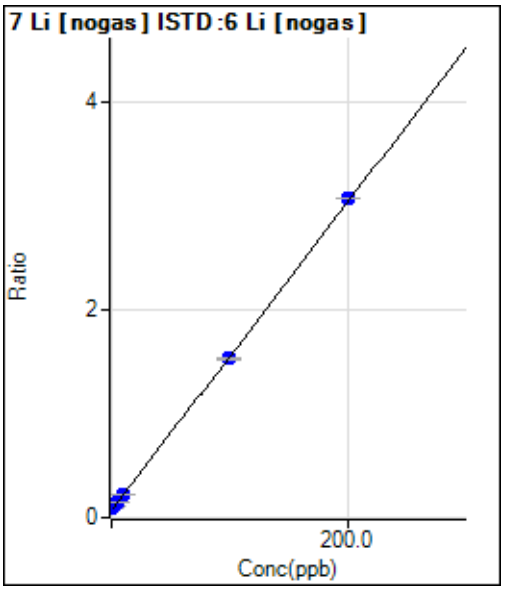


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1609235.18		P	8.0	
2	☐	1.000		1623683.78		P	7.8	
3	☐	1.000		1634619.87		P	7.8	
4	☐	1.000		1635918.26		P	7.0	
5	☐	1.000		1595490.50		P	7.0	
6	☐	1.000		1527082.53		P	5.4	
7	☐	1.000						

Calibration for 192_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\061924A.b\
Analysis File: 061924A.batch.bin
DA Date-Time: 6/19/2024 11:54:57 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

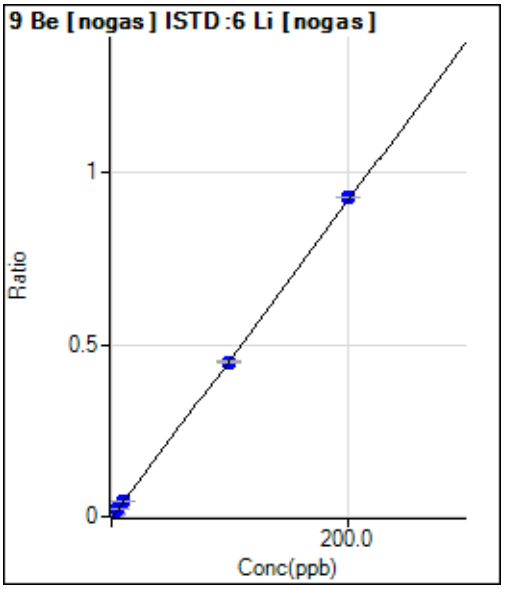
Level	Standard Data File	Sample Name	Acq. Date-Time
1	185CALB.d	CAL BLK	6/19/2024 8:04:59 PM
2	186CALS.d	2/10/200	6/19/2024 8:07:05 PM
3	187CALS.d	5/25/500	6/19/2024 8:09:11 PM
4	188CALS.d	10/50/1000	6/19/2024 8:11:17 PM
5	189CALS.d	100/500/10K	6/19/2024 8:13:23 PM
6	190CALS.d	200/1000/20K	6/19/2024 8:15:27 PM
7			



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	46983.81	0.0858	P	1.5	
2	☐	2.000	1.950	66127.52	0.1147	P	2.3	-2.5
3	☐	5.000	4.787	88490.45	0.1568	P	0.5	-4.3
4	☐	10.000	9.566	127176.22	0.2277	P	1.3	-4.3
5	☐	100.000	97.253	794239.44	1.5284	P	1.0	-2.7
6	☐	200.000	201.401	1474481.28	3.0733	P	0.3	0.7
7	☐	1.000						

y = 0.0148 * x + 0.0858
R = 0.9999
DL = 0.2603 ppb
BEC = 5.783 ppb

Weight: <None>
Min Conc: <None>

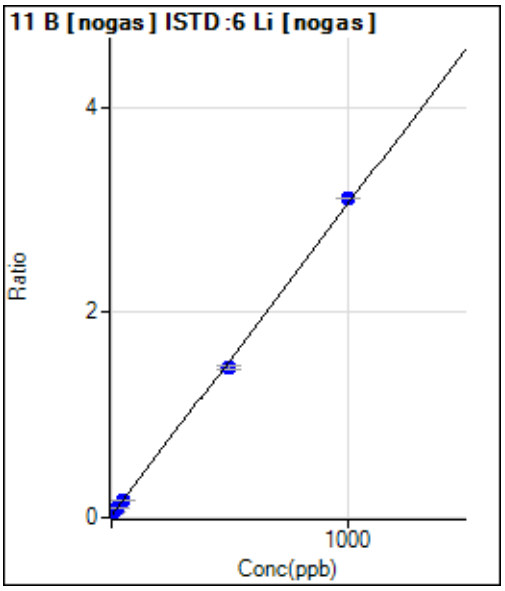


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	46.67	0.0001	P	26.6	
2	☐	2.000	1.838	4939.15	0.0086	P	4.1	-8.1
3	☐	5.000	4.436	11601.07	0.0206	P	2.8	-11.3
4	☐	10.000	9.347	24138.76	0.0432	P	2.1	-6.5
5	☐	100.000	97.367	233518.63	0.4494	P	1.1	-2.6
6	☐	200.000	201.365	445822.62	0.9293	P	0.4	0.7
7	☐	1.000						

y = 0.0046 * x + 8.5142E-005
R = 0.9999
DL = 0.01473 ppb
BEC = 0.01845 ppb

Weight: <None>
Min Conc: <None>

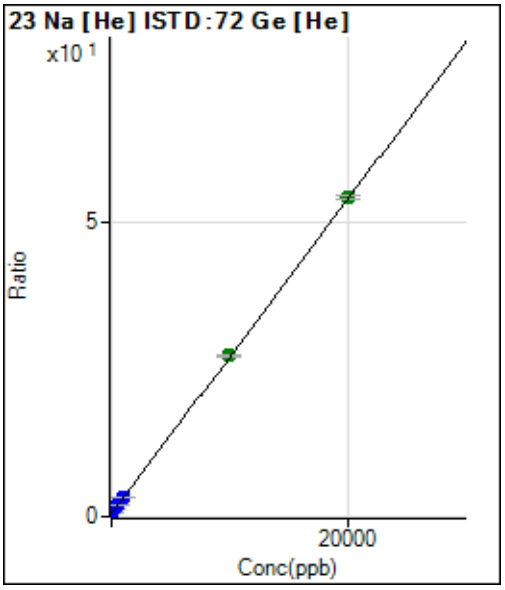
Calibration for 192_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	22240.97	0.0406	P	2.3	
2	☐	10.000	5.949	33808.37	0.0586	P	2.0	-40.5
3	☐	25.000	19.323	55970.21	0.0992	P	1.3	-22.7
4	☐	50.000	42.357	94378.66	0.1690	P	2.2	-15.3
5	☐	500.000	472.254	764725.09	1.4717	P	2.5	-5.5
6	☐	1000.000	1014.437	1494326.28	3.1147	P	0.4	1.4
7	☐	5.000						

y = 0.0030 * x + 0.0406
R = 0.9995
DL = 0.9438 ppb
BEC = 13.4 ppb

Weight: <None>
Min Conc: <None>

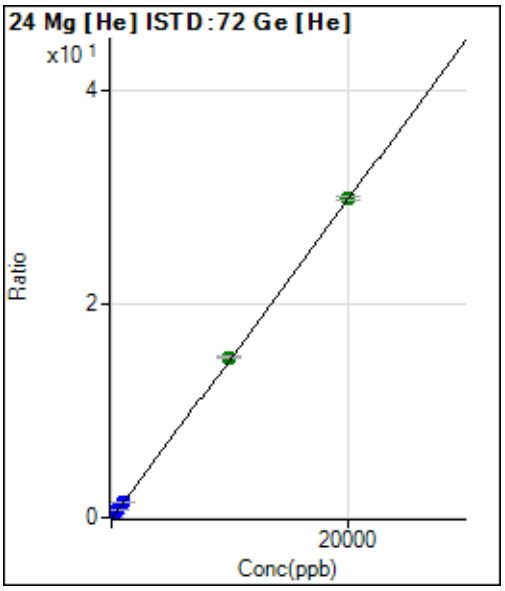


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	307175.84	0.7601	P	0.4	
2	☐	200.000	162.383	495320.66	1.1945	P	0.5	-18.8
3	☐	500.000	423.403	772630.54	1.8928	P	0.3	-15.3
4	☐	1000.000	882.096	1262233.78	3.1199	P	0.2	-11.8
5	☐	10000.00	9967.860	10660475.67	27.4261	A	1.5	-0.3
6	☐	20000.00	20024.25	20833426.36	54.3289	A	0.8	0.1
7	☐	100.000						

y = 0.0027 * x + 0.7601
R = 1.0000
DL = 3.331 ppb
BEC = 284.1 ppb

Weight: <None>
Min Conc: <None>

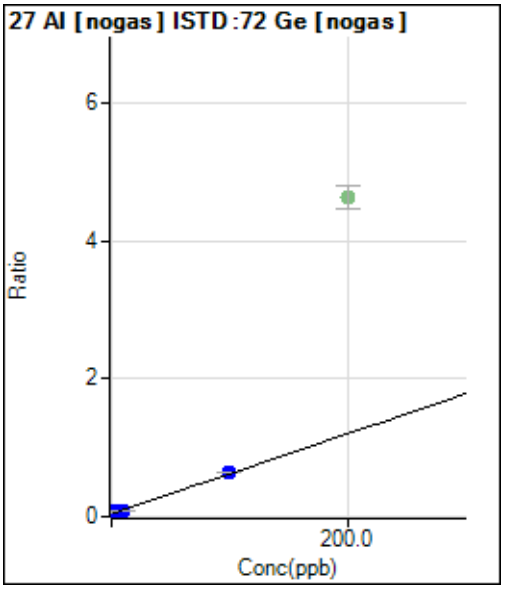
Calibration for 192_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3257.08	0.0081	P	2.8	
2	☐	200.000	187.288	119247.68	0.2876	P	0.9	-6.4
3	☐	500.000	465.449	286843.35	0.7027	P	0.3	-6.9
4	☐	1000.000	934.026	567210.75	1.4020	P	1.4	-6.6
5	☐	10000.00	10021.40	5816843.24	14.9645	A	1.0	0.2
6	☐	20000.00	19993.58	11445027.33	29.8475	A	1.4	0.0
7	☐	100.000						

y = 0.0015 * x + 0.0081
R = 1.0000
DL = 0.4526 ppb
BEC = 5.4 ppb

Weight: <None>
Min Conc: <None>

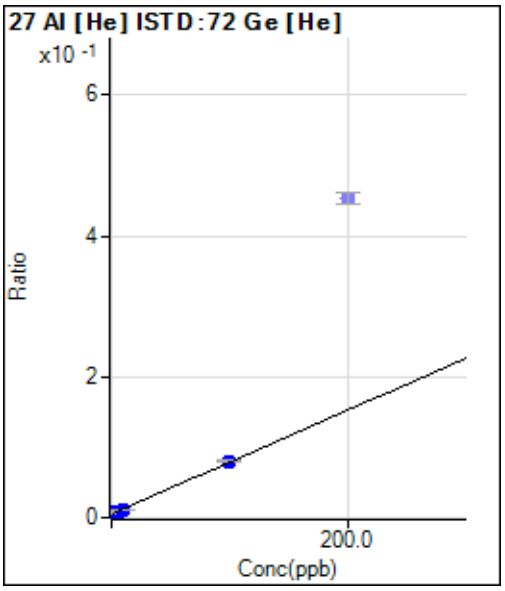


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	65238.37	0.0500	P	2.3	
2	☐	2.000	3.868	98154.81	0.0724	P	2.2	93.4
3	☐	5.000	-0.150	66061.56	0.0491	P	0.8	-103.0
4	☐	10.000	5.444	110034.38	0.0816	P	0.7	-45.6
5	☐	100.000	100.676	826794.23	0.6345	P	1.4	0.7
6	☑	200.000		5823530.33	4.6320	A	7.6	
7	☐	1.000						

y = 0.0058 * x + 0.0500
R = 0.9976
DL = 0.6001 ppb
BEC = 8.608 ppb

Weight: <None>
Min Conc: <None>

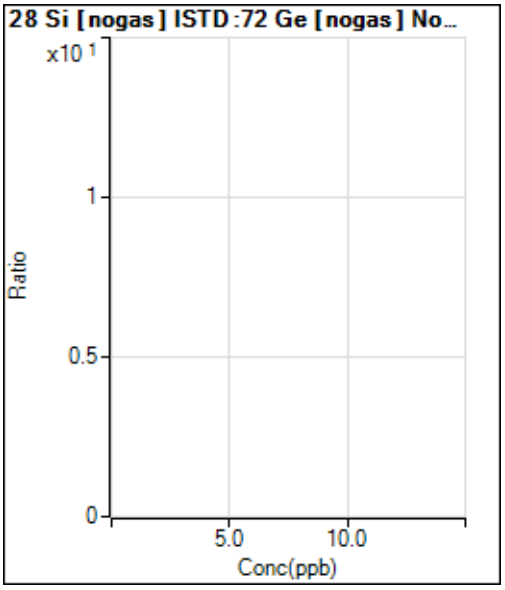
Calibration for 192_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2540.26	0.0063	P	4.8	
2	☐	2.000	4.263	3910.56	0.0094	P	4.2	113.1
3	☐	5.000	0.566	2736.97	0.0067	P	6.2	-88.7
4	☐	10.000	6.315	4427.41	0.0109	P	7.0	-36.8
5	☐	100.000	100.545	31258.66	0.0804	P	2.7	0.5
6	☑	200.000		173967.21	0.4536	P	3.4	
7	☐	1.000						

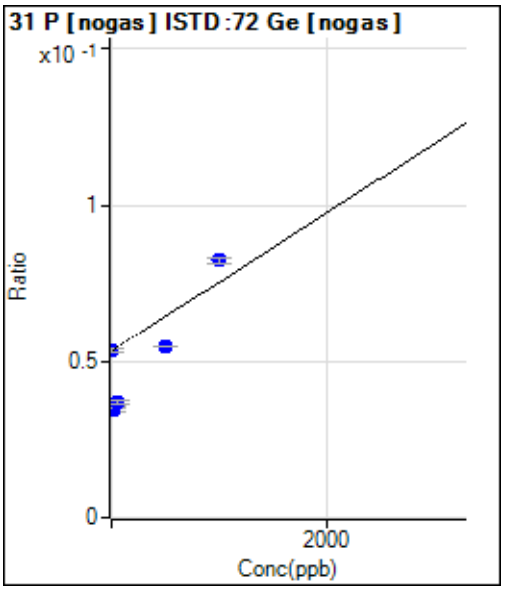
y = 7.3733E-004 * x + 0.0063
R = 0.9980
DL = 1.224 ppb
BEC = 8.526 ppb

Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000						
2	☐	100.000						
3	☐	250.000						
4	☐	500.000						
5	☐	5000.000						
6	☐	10000.00						
7	☐	50.000						

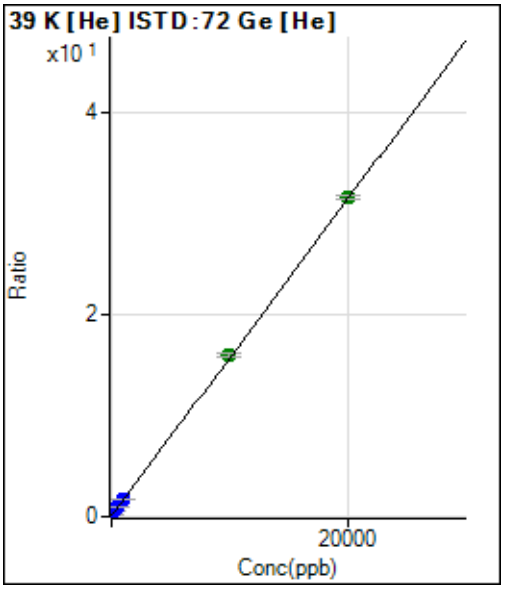
Calibration for 192_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	69929.91	0.0536	P	1.7	
2	☐	10.000	-857.041	46714.69	0.0345	P	3.2	-8670.
3	☐	25.000	-818.680	47527.34	0.0353	P	1.9	-3374.
4	☐	50.000	-751.148	49680.75	0.0368	P	2.6	-1602.
5	☐	500.000	56.387	71449.16	0.0548	P	0.5	-88.7
6	☐	1000.000	1291.626	103564.04	0.0824	P	2.0	29.2
7	☐	5.000						

y = 2.2285E-005 * x + 0.0536
R = 0.9070
DL = 122.6 ppb
BEC = 2404 ppb

Weight: <None>
Min Conc: <None>

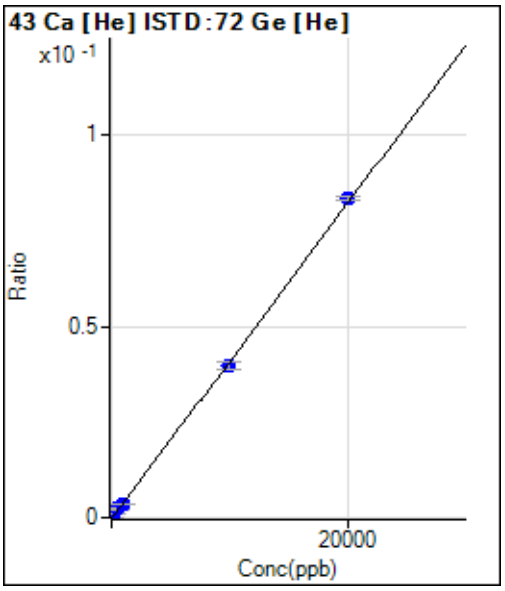


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	96272.63	0.2382	P	2.7	
2	☐	200.000	177.161	214155.07	0.5165	P	0.9	-11.4
3	☐	500.000	446.213	383306.43	0.9390	P	0.2	-10.8
4	☐	1000.000	897.065	666345.54	1.6471	P	1.4	-10.3
5	☐	10000.00	10005.64	6200470.74	15.9525	A	2.2	0.1
6	☐	20000.00	20003.89	12138166.49	31.6551	A	1.0	0.0
7	☐	100.000						

y = 0.0016 * x + 0.2382
R = 1.0000
DL = 12.39 ppb
BEC = 151.7 ppb

Weight: <None>
Min Conc: <None>

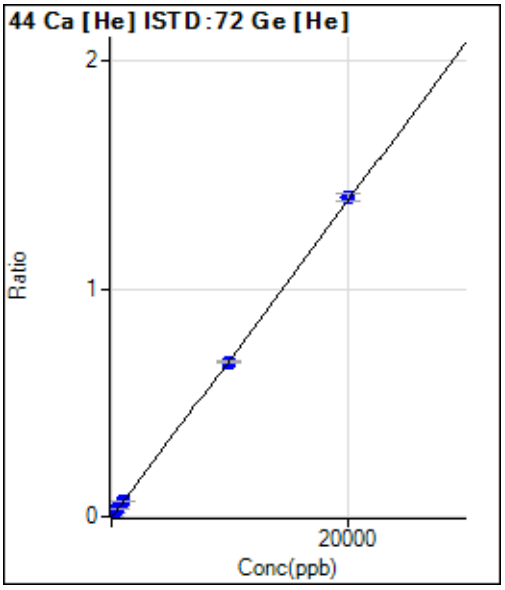
Calibration for 192_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	40.00	0.0001	P	65.9	
2	☐	200.000	180.294	350.01	0.0008	P	3.2	-9.9
3	☐	500.000	535.121	943.38	0.0023	P	6.8	7.0
4	☐	1000.000	845.229	1453.43	0.0036	P	5.0	-15.5
5	☐	10000.00	9615.820	15484.82	0.0398	P	5.5	-3.8
6	☐	20000.00	20199.14	32057.36	0.0836	P	1.1	1.0
7	☐	100.000						

y = 4.1336E-006 * x + 9.8900E-005
R = 0.9997
DL = 47.31 ppb
BEC = 23.93 ppb

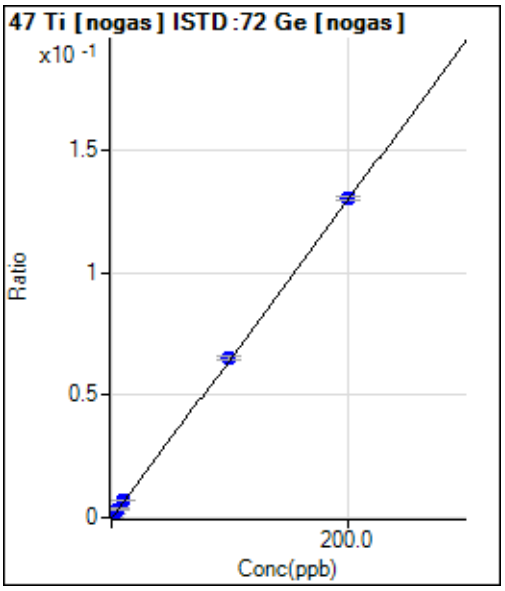
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	663.36	0.0016	P	2.0	
2	☐	200.000	185.719	6034.63	0.0146	P	4.9	-7.1
3	☐	500.000	473.077	14093.39	0.0345	P	2.8	-5.4
4	☐	1000.000	958.763	27625.45	0.0683	P	1.3	-4.1
5	☐	10000.00	9741.457	263846.31	0.6788	P	1.4	-2.6
6	☐	20000.00	20132.14	537207.47	1.4010	P	2.2	0.7
7	☐	100.000						

y = 6.9511E-005 * x + 0.0016
R = 0.9999
DL = 1.392 ppb
BEC = 23.62 ppb

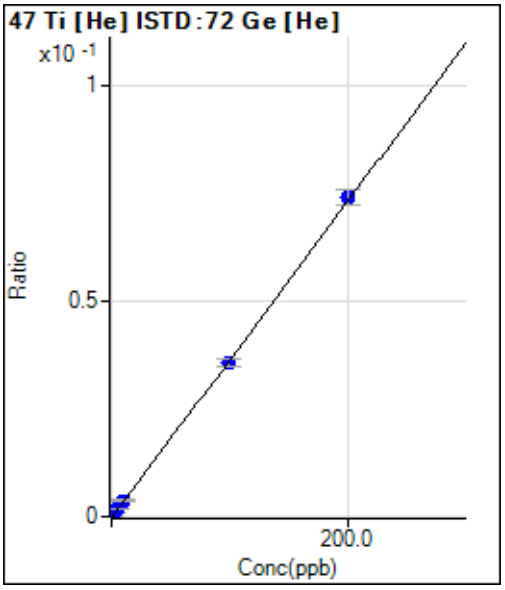
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	370.01	0.0003	P	32.3	
2	☐	2.000	2.116	2246.88	0.0017	P	2.6	5.8
3	☐	5.000	4.977	4730.82	0.0035	P	3.1	-0.5
4	☐	10.000	10.202	9319.73	0.0069	P	4.0	2.0
5	☐	100.000	99.643	84718.95	0.0650	P	2.2	-0.4
6	☐	200.000	200.168	163883.42	0.1303	P	0.7	0.1
7	☐	1.000						

y = 6.4967E-004 * x + 2.8317E-004
R = 1.0000
DL = 0.4227 ppb
BEC = 0.4359 ppb

Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16.67	0.0000	P	91.7	
2	☐	2.000	2.051	330.01	0.0008	P	10.7	2.6
3	☐	5.000	4.551	700.03	0.0017	P	4.5	-9.0
4	☐	10.000	9.950	1496.76	0.0037	P	9.0	-0.5
5	☐	100.000	97.040	13886.59	0.0357	P	3.8	-3.0
6	☐	200.000	201.493	28426.96	0.0741	P	4.5	0.7
7	☐	1.000						

y = 3.6777E-004 * x + 4.1307E-005
R = 0.9998
DL = 0.309 ppb
BEC = 0.1123 ppb

Weight: <None>
Min Conc: <None>